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2023 GROUNDWATER MONITORING ANNUAL REPORT

CLOSED FLY ASH & BOTTOM ASH PONDS FORMER MEREDOSIA POWER STATION

2023 GROUNDWATER MONITORING ANNUAL REPORT CLOSED FLY ASH & BOTTOM ASH PONDS FORMER MEREDOSIA POWER STATION

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B3 Sen Slope and Mann-Kendall Test Results – Short

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ACRONYMS AND ABBREVIATIONS

Ameren Ameren Energy Medina Valley Cogen, LLC

Class I Groundwater Groundwater Quality Standards for Class I: Potable Resource Groundwater

Standard (35 IAC 620.410) ft/ft feet per foot

GMZ Groundwater Management Zone
GMP Groundwater Monitoring Plan
HDPE High-density polyethylene
IAC Illinois Administrative Code

IEPA Illinois Environmental Protection Agency

Meredosia Former Meredosia Power Station

mg/L milligrams per liter
TDS total dissolved solids

Ameren AmerenEnergy Medina Valley Cogen, LLC

1. INTRODUCTION

1.1 Background

This 2023 Annual Report has been prepared for AmerenEnergy Medina Valley Cogen, LLC (Ameren) to summarize groundwater monitoring results at the closed Fly Ash and Bottom Ash Ponds at the Former Meredosia Power Station (Meredosia, **Figure 1-1**). The Old Ash Pond was decommissioned and capped during the 1970s (Kleinfelder West, Inc., 2011), and is not addressed in this groundwater monitoring program. Ameren completed closure activities for the Fly Ash and Bottom Ash Ponds in December 2018 in accordance with the Closure Plan (Geotechnology, Inc., 2018a) and requirements of Title 35 of the Illinois Administrative Code (IAC) Part 840. Closure activities, which included grading, placement of a high-density polyethylene (HDPE) geomembrane covered with ClosureTurf®/ArmorFill® synthetic turf, and construction of surface water control structures, began in March 2018 and were completed as of December 5, 2018. The Power Station ceased operations in 2011 and the former power block area was sold in 2019.

The current groundwater monitoring network comprises of 14 monitoring wells, including five installed during October 2010 (APW-1 through APW-5), four installed during October 2015 (APW-6 through APW-9), three installed during August 2018 (APW-10 through APW-12), and two installed during July 2021 (APW-13 and APW-14). Monitoring wells APW-1 through APW-5 were initially sampled from 2010 to 2012. Beginning in June 2017, and in accordance with the Groundwater Monitoring Plan (GMP) dated December 14, 2016 (Geotechnology, Inc.), groundwater sampling was restarted and conducted quarterly at monitoring wells APW-1 through APW-9. Beginning in September 2018, and in accordance with the GMP, monitoring wells APW-10, APW-11, and APW-12 were added to the monitoring well network for quarterly sampling. Monitoring wells APW-13 and APW-14 were similarly added to the monitoring well network in July 2021. Monitoring wells were installed to define the lateral extent of impacts on site, as well as to assist in future groundwater monitoring of remedial actions. Locations of all monitoring wells are shown on **Figure 1-2**.

In conjunction with Ameren's request for approval of the Closure Plan, Ameren submitted the Groundwater Management Zone Plan, Fly Ash and Bottom Ash Pond, Meredosia Power Station (Geotechnology, Inc., 2016b) and a request to establish the Groundwater Management Zone (GMZ) pursuant to 35 IAC § 620.250(a)(2): Ash Ponds Closure, Groundwater Management Zone Application, dated October 17, 2017, which was approved by the Illinois Environmental Protection Agency (IEPA) on November 1, 2017.

The GMP, in accordance with 35 IAC § 840.114 and 35 IAC § 840.116, outlines groundwater monitoring and sampling procedures, establishes the parameters and methods to be used for analyzing the groundwater samples, and describes evaluation methods to assess post-closure groundwater quality and trends to demonstrate compliance with the applicable groundwater standards. The Groundwater Monitoring Program Schedule is provided in **Table 1-1**.

Monitoring well installation date, construction details, monitoring objective, position relative to the Fly Ash and Bottom Ash Ponds, and groundwater zone monitored are provided in **Table 1-2**. Field and laboratory parameters for evaluating groundwater quality are shown in **Table 1-3**.

Seven quarterly rounds of pre-closure groundwater data and twenty quarterly rounds of post-closure data have been collected between January 2019 and December 2023 to satisfy

requirements of the GMP (Geotechnology, Inc., 2016a). This is the seventh annual report for Meredosia since groundwater monitoring restarted in 2017. This annual report includes the following elements:

- A summary of post-closure groundwater monitoring data collected during 2022 and 2023 (Appendix A).
- Methodology for the outlier and trend analyses along with the results for these analyses (Appendix B).
- Quarterly Site Inspection Forms, including observations and descriptions of any maintenance activities performed on the pond cap, embankment, roadway, and remaining basin (Appendix C).

1.2 Groundwater Quality Overview - 2019 to 2023

1.2.1 Summary of Cover System Construction and Maintenance

Inspections of the cover system at the Fly Ash Pond and embankment at the Bottom Ash Pond are performed quarterly. Routine maintenance is completed as needed, as soon as practicable, after issues are identified and may include recontouring the ground surface, repairing drainage channels, repairing and replacing lining material, revegetating areas, and removing woody vegetation. Maintenance activities can be found in more detail in the Post-Closure Care Plan (Geotechnology, Inc., 2018b) and **Appendix C**.

1.2.2 Summary of Post-Closure Groundwater Quality Data

Post-closure (2019 to 2023) groundwater quality data were assessed to evaluate overall groundwater condition and cover system performance. This assessment was performed independently from the compliance evaluations required by the GMP, which are focused on specific compliance criteria and proposed mitigation actions. This assessment is intended as a holistic review of groundwater quality since closure.

Arsenic and boron are identified in the Closure Plan as the primary indicator constituents for coal ash leachate impacts to groundwater at the Fly Ash Pond and Bottom Ash Pond. As such, arsenic and boron are the focus of this groundwater quality data review.

Dissolved and total arsenic concentration time series since 2019 are presented in **Figures 1-3 through 1-14**. Time series for monitoring wells APW-13 and APW-14 are not included because the wells are frequently dry and there is not enough concentration data to include these wells in this assessment. The lines through the concentration data on the figures represent the best fit linear regressions for arsenic concentrations in each well. These best fit linear regression lines are included in the figures to provide a convenient means of evaluating general post-closure concentration patterns. The regression lines are not equivalent to the groundwater compliance statistical trends discussed in **Section 3.3**. Arsenic concentrations in downgradient compliance wells have generally been stable or decreasing since closure and are currently less than the 35 IAC § 620.410 Class I Groundwater Standard in the majority of the compliance groundwater monitoring wells in 2023, with the following exceptions:

• APW-3 – dissolved and total arsenic concentrations are greater than the Class I Groundwater Standard, but both exhibit stable concentration patterns.

 APW-4 – dissolved and total arsenic concentrations have decreased below the Class I Groundwater Standard in mid-2023 and continue to decline.

Dissolved and total boron concentration time series since 2019 are presented in **Figures 1-15 through 1-26**. Generally, dissolved and total boron concentrations in downgradient compliance wells have been stable or decreasing since 2019 and are less than the 35 IAC § 620.410 Class I Groundwater Standard in 2023, with the following exceptions:

• APW-3 – dissolved and total boron concentrations are greater than the Class I Groundwater Standard, but both exhibit stable concentration patterns.

Other wells in the monitoring network exhibit increasing concentrations above the Class I Groundwater Standard (i.e., APW-10 and APW-11), but are located hydraulically upgradient of the closed Fly Ash and Bottom Ash Ponds (**Figures 3-1 through 3-4**). Midgradient well APW-8, also located hydraulically upgradient of the closed Fly Ash and Bottom Ash Ponds, exhibits dissolved and total boron concentrations above Class I Groundwater Standard but concentrations are decreasing. Consequently, it is not likely the closed Fly Ash and Bottom Ash Ponds are contributing to the elevated and/or increasing dissolved and total boron concentrations observed at these wells.

1.2.3 Conclusion

The stable or decreasing indicator constituent concentrations (arsenic and boron) in the downgradient compliance monitoring wells across the site are a strong indication that the cover system is functioning as designed to improve overall groundwater quality beneath the closed Fly Ash and Bottom Ash Ponds.

2. GROUNDWATER MONITORING PLAN COMPLIANCE

2.1 Applicable Groundwater Quality Standards

2.1.1 On-Site Groundwater Standards

Pursuant to 35 IAC § 620.450(a), the on-site groundwater quality shall be restored to the Groundwater Quality Standards for Class I: Potable Resource Groundwater (Class I Groundwater Standards) (35 IAC § 620.410).

If upon completion of the 30-year post-closure care period the observed concentrations in the site groundwater still exceed a Class I Groundwater Standard, the on-site standard may be adjusted, provided criteria are addressed to the satisfaction of the IEPA.

2.1.2 Off-Site Groundwater Standards

For off-site groundwater compliance, the Class I Groundwater Standards are also used (35 IAC § 620.410). A GMZ was requested and approved for Meredosia as part of the Closure Plan (Geotechnology, Inc., 2018a). The point of compliance wells for the subject property will be APW-2 and APW-3. These wells are located adjacent to the Illinois River and downgradient of the closed Fly Ash and Bottom Ash Ponds. If closure of the Fly Ash Pond and Bottom Ash Pond does not reduce the monitored constituent concentrations to levels less than the Class I Groundwater Standards, a plan for post-remediation monitoring will be submitted to the IEPA (Geotechnology, Inc., 2016b).

2.2 Demonstration of Compliance

Compliance is based on attainment of post-closure groundwater quality that meets the Class I Groundwater Standards, as set forth in 35 IAC § 620.410. Groundwater is in compliance when monitored constituent concentrations are less than the Class I Groundwater Standards and there are no short-term statistically significant increasing trends at the GMZ boundary compliance wells.

2.2.1 Compliance Determination

As described in Section 5.2 of the GMP (Geotechnology, Inc., 2016a):

- Compliance is determined by performing an annual trend analysis for each downgradient monitoring well (**Table 1-2**) for all constituents listed in **Table 1-3**. The analysis shall use Sen's estimate of the slope and be performed on a minimum of eight consecutive post-closure groundwater samples.
- If the results of sampling and trend analysis determine a positive slope at any downgradient monitoring well, a Mann-Kendall test will be performed at 95 percent confidence to determine whether or not the positive slope represents a statistically significant increasing trend. Ameren will investigate the cause of a statistically significant increasing trend as described below.
 - Notification of statistically significant increasing trends and revision to the sampling frequency must be reported to the IEPA within 30 days of making the determinations.
 - If the investigation attributes a statistically significant increasing trend to a superseding cause, Ameren will notify the IEPA in writing, stating the cause of the increasing trend and providing the rationale used in such a determination.

- If there is no superseding cause and the statistically significant increasing trend continues to be observed for two or more consecutive years, a hydrogeologic investigation (and additional site investigation[s], if necessary) will be performed.
- Based on the outcome of the investigation above, Ameren will take action to mitigate statistically significant increasing trends that are causing, threatening, or allowing exceedances of off-site groundwater quality standards. Such actions will be proposed as a modification to the post-closure care plan within 180 days after completion of the investigation activities described above.

3. DATA ANALYSIS

3.1 Groundwater Flow

Groundwater elevation contour maps were generated for each quarterly sampling event (**Figures 3-1 through 3-4**). A timeseries of groundwater elevations from 2022 to 2023 is provided in **Figure 3-5** and shows a general decrease in elevations over time. Monitoring wells APW-13 and APW-14 were dry during all 2023 sampling events. Groundwater in the uppermost aquifer generally flows from east to west/northwest towards the Illinois River, which is consistent with past evaluations. No groundwater flow reversals were observed in 2023. Horizontal hydraulic gradients calculated along the flow path from midgradient monitoring well APW-8 to downgradient compliance well APW-2 ranged from 0.0001 to 0.0031 feet per foot (ft/ft) during 2023.

3.2 Review of Analytical Data (2022–2023)

Groundwater samples from the most recent eight post-closure monitoring events were collected on March 17, 2022; June 22, 2022; August 18, 2022; December 21, 2022; February 2, 2023; April 26, 2023; September 22, 2023; and November 8, 2023. All sampling dates and field and laboratory analytical results are tabulated in **Appendix A**. Sampling anomalies are noted below:

- Monitoring well APW-13 was dry or did not have adequate water for sampling with the exceptions of the first and second quarter of 2022, hence, the well was only sampled twice.
- Monitoring well APW-14 was not sampled because it was dry or did not have adequate water during all sampling events.

Results of groundwater monitoring during 2022 and 2023 for constituents that exceeded the 35 IAC § 620.410 Class I Groundwater Standard when the GMZ was established (arsenic, boron, iron, manganese, and sulfate) are summarized below:

- Arsenic is a coal ash indicator at the Fly Ash Pond and Bottom Ash Pond (see Section 1.2.2).
 Dissolved and total arsenic concentrations in monitoring wells during 2022 and 2023 are shown on Figures 3-6A through 3-9B.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved arsenic concentrations were all non-detect and total arsenic concentrations ranged from less than (<) 0.0010 to 0.0023 milligrams per liter (mg/L).
 - Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved arsenic concentrations ranged from <0.0010 to 0.0023 mg/L and total arsenic concentrations ranged from <0.0010 to 0.059 mg/L.
 - Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved arsenic concentrations ranged from <0.0010 to 0.32 mg/L and total arsenic concentrations ranged from < 0.0010 to 0.36 mg/L.
- Boron is the primary indicator constituent for coal ash impacts to groundwater at the Fly Ash Pond and Bottom Ash Pond (see **Section 1.2.2**). Dissolved and total boron concentrations are shown on **Figures 3-10 through 3-13**.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved boron concentrations ranged from 0.039 to 4.1 mg/L and total boron concentrations ranged from <0.020 to 4.9 mg/L.

- Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved boron concentrations ranged from 0.10 to 7.0 mg/L and total boron concentrations ranged from 0.11 to 7.9 mg/L.
- Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved boron concentrations ranged from 0.079 to 22 mg/L and total boron concentrations ranged from 0.010 to 24 mg/L.
- Manganese and iron mobility are affected by fluctuations of oxidation-reduction conditions and pH, making them unreliable coal ash indicators at the site (Geotechnology, Inc., 2016b).
- Sulfate is a non-indicator constituent, however, similar to indicator parameters, sulfate concentrations are generally less than the Class I Groundwater Standard, as illustrated by the box-whisker and timeseries plots (Figures 3-14 and 3-15) and showed generally stable or decreasing trends during this reporting period (Appendix B3).

3.3 Statistical Analyses

Analytical data for downgradient wells (APW-2, APW-3, APW-4, APW-9, and APW-12) were evaluated to identify short-term (compliance) data trends in the 2022–2023 dataset. Trends were evaluated according to the procedure outlined in the GMP (Geotechnology, Inc., 2016a).

3.3.1 Outlier Analysis

The Grubbs outlier test determines whether there is statistical evidence of a high or low observation that differs significantly from the other data. The test methodology and results are listed in **Appendix B1 and B2**, respectively. Outliers identified during the compliance period (2022–2023) by the Grubbs outlier test based on the date range of 2010–2023 were not eliminated from further statistical analysis because there is no documentation indicating they are not representative of actual field conditions. In addition, these identified outliers did not have any influence on the short-term compliance trends.

3.3.2 Sen's Estimate of the Slope

Sen's estimate of the slope is a non-parametric estimator of trend. It is the median of all slopes between all possible unique pairs of individual data points in the time period being analyzed. The slopes represent the rate of change of the measured parameter, where the y-axis is the parameter value and the x-axis is calendar time. The method is robust, and fairly insensitive to the presence of a small fraction of outliers and non-detect data values. The test methodologies and results are listed in **Appendix B1 and B3**, respectively.

Six cases with positive slopes, six cases with negative slopes and fifteen cases with flat or no slopes were identified in the 2022-2023 datasets for downgradient compliance wells where one or more monitored constituent concentrations was above the Class I Groundwater Standard (**Table 3-1**). Sen's estimate of the slope was not determined for downgradient wells where all concentrations were below the Class I Groundwater Standard.

3.3.3 Mann-Kendall Trend Analysis

The six cases with positive Sen's slopes referenced above (see **Section 3.3.2**) were tested using the Mann-Kendall test to determine if the positive slopes represented statistically significant increasing trends. The Mann-Kendall test is a non-parametric, one-tailed test to determine

whether a dataset has a statistically significant increasing or decreasing trend. The test methodology and results are listed in **Appendix B1 and B3**, respectively.

The Mann-Kendall test did not determine any case of statistically significant increasing trend in the 2022–2023 dataset for downgradient compliance wells (**Table 3-1**).

3.4 Site Inspection

The Post-Closure Maintenance Program requires quarterly inspection for the first five years after closure (i.e., through 2023). After five years, the inspection frequency can be reduced to semi-annually provided that semiannual groundwater monitoring has been approved by IEPA. After five years of semiannual monitoring, the inspection frequency can be reduced to annually pending approval of annual groundwater monitoring. Discontinuance of site inspections will occur after IEPA approval of the certified Post-Closure Care Report.

Site inspections include assessment of the condition and need for repair of final cover, as wells as fencing, monitoring points, and surface water control features. The inspection reports from 2023 are included in **Appendix C**.

Site inspections were performed on March 7, 2023; April 18, 2023; September 1, 2023; and December 20, 2023. As noted in the 2022 Groundwater Monitoring Annual Report (Ramboll, 2023), a tear was observed in the ClosureTurf®/ArmorFill® synthetic turf towards the cap peak. A turf flap from the rip completely covers the HDPE geomembrane and no geomembrane damage was observed. The tear in the Closure Turf was repaired in 2023. Overall, all the components of the ClosureTurf®/ArmorFill® synthetic turf cover system are in good condition and will continue to be monitored as part of quarterly site inspections.

4. EVALUATION OF COMPLIANCE AND CONCLUSIONS

Cover system construction and maintenance, as well as stable or decreasing arsenic and boron concentrations in the majority of downgradient compliance monitoring wells across the site are strong indications that the cover system is functioning as designed to improve overall groundwater quality beneath the pond.

Statistical analyses of analytical results for groundwater samples collected during the 2022-2023 compliance period at the Meredosia Fly Ash and Bottom Ash Ponds indicated downgradient monitoring wells were in compliance with the requirements stated in the GMP: concentrations of monitored parameters above the 35 IAC § 620.410 Class I Groundwater Standard did not exhibit short-term statistically significant increasing trends for any parameter at any downgradient monitoring well during the 2022-2023 compliance period. As such, no further action is required at this time. The concentrations of indicator parameters will continue to be monitored and evaluated in 2024.

5. REFERENCES

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TABLES

Table 1-1. Groundwater Monitoring Program Schedule

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Frequency	Duration	Sampling Quarter	
Quartarly	Begins: June 2017	January- March (1) April - June (2) July - September (3) October - December (4)	
Quarterly	Ends: After successful completion of the post-closure activities required and approval of the Illinois Environmental Protection Agency (IEPA); or Acceptance of reduced frequency by IEPA based on successful demonstration under Semi-Annual or Annual Frequency		
Semi-Annual or Annual	Begins: Upon demonstration that monitoring effectiveness will not be compromised by reduced frequency, adequate data has been collected to characterize groundwater, and concentration of constituents monitored at downgradient boundaries do not demonstrate statistically significant increasing trends that can be attributed to the former ash ponds	April - June (2)	
	Ends: After successful completion of the post-closure activities required and approval of the IEPA	October - December (4)	

[O: YD/SJC, C: YD/SJC]



Table 1-2. Groundwater Monitoring System Wells

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Monitoring Well Number	Installation Date	Surface Elevation (ft NAVD88) ¹	TOC Elevation (ft NAVD88) ¹	Top of Screen Elevation (ft NAVD88) ¹	Bottom of Screen Elevation (ft NAVD88) ¹	Total Well Depth (ft BGS)	Objective	Position	Monitoring Zone
APW-1	10/26/2010	446.06	449.26	431.40	421.40	24.7	Compliance	Upgradient	Uppermost Aquifer
APW-2	10/25/2010	433.97	436.87	421.10	411.10	22.9	Compliance	Downgradient	Uppermost Aquifer
APW-3	10/25/2010	433.35	436.28	420.80	410.80	22.6	Compliance	Downgradient	Uppermost Aquifer
APW-4	10/26/2010	431.90	434.86	415.80	409.30	26.1	Compliance	Downgradient	Uppermost Aquifer
APW-5	10/26/2010	450.48	453.20	431.00	421.00	29.5	Compliance	Upgradient	Uppermost Aquifer
APW-6	10/1/2015	448.60	451.90	431.10	421.10	28.0	Compliance	Midgradient	Uppermost Aquifer
APW-7	10/1/2015	435.00	438.70	429.00	419.00	16.5	Compliance	Midgradient	Uppermost Aquifer
APW-8	10/1/2015	460.50	463.90	431.90	421.90	39.1	Compliance	Midgradient	Uppermost Aquifer
APW-9	10/1/2015	445.00	448.10	426.20	416.20	29.3	Compliance	Downgradient	Uppermost Aquifer
APW-10	8/20/2018	454.10	457.45	424.90	414.90	39.4	Compliance	Midgradient	Uppermost Aquifer
APW-11	8/22/2018	461.89	465.40	427.64	417.64	44.45	Compliance	Upgradient	Uppermost Aquifer
APW-12	8/21/2018	431.94	435.52	422.10	412.10	20.0	Compliance	Downgradient	Uppermost Aquifer
APW-13	7/13/2021	457.84	461.55	437.34	427.34	31.0	Compliance	Midgradient	Uppermost Aquifer
APW-14	7/12/2021	455.55	459.27	439.04	429.04	27.0	Compliance	Midgradient	Uppermost Aquifer

[U: RSD 3/4/2022, C: RAB 3/10/22]

Notes:

1. Elevations referenced to North American Vertical Datum (NAVD) of 1988 with the exception of APW-5 through APW-9 which are referenced to feet above Mean Sea Level BGS = below ground surface

ft = feet

NAVD88 = North American Vertical Datum of 1988

TOC = top of casing (i.e., top of riser pipe)



Table 1-3. Groundwater Monitoring Program Parameters

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

	1				
Field Parameters	STORET Code				
pH ²	00400				
Specific Conductance ²	00094				
Temperature (Fahrenheit)	00	0011			
Depth to Water (from TOC)	72	2109			
Elevation of Groundwater Surface ²	72	1993			
Depth of Well (BGS) ²	72	2008			
Elevation of Measuring Point		2110			
Laboratory Parameters ¹	STORET Code - Dissolved	STORET Code - Total			
Boron ²	01020	01022			
Iron ²	01046	01045			
Manganese ²	01056	01055			
Sulfate ²		01033			
_	00946				
Total Dissolved Solids (TDS) ²	70300				
Antimony	01095	01097			
Arsenic	01000	01002			
Barium	01005	01007			
Beryllium Cadasiyas	01010	01012			
Cadmium Chloride	01025 00941	01027			
Chromium	01030	01034			
Cobalt	01035	01034			
Copper	01040	01037			
Cyanide		00720			
Fluoride	00950				
Lead	01049	01051			
Mercury	71890	71900			
Nickel	01065	01067			
Nitrate as N	00613				
Nitrite as N	00618				
Selenium	01145	01147			
Silver	01075 01077				
Thallium	01057	01059			
Vanadium	01085	01087			
Zinc	01090	01092			

[O: YD/SJC, C: YD/SJC]

Notes:

BGS = Below Ground Surface

N = Nitrogen

STORET = Storage and retrieval

TOC = Top of Casing



¹ Reported as dissolved (filtered) concentrations.

² Mandatory monitoring parameter per 35 IAC § 840.114(a).

⁻⁻⁼ not analyzed

Table 3-1. Trend Analysis Results

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

	APW-2	APW-3	APW-4	APW-9	APW-12
Number of Samples	8	8	8	8	8
Antimony, dissolved	DNE	DNE	DNE	DNE	DNE
Antimony, total	DNE	DNE	DNE	DNE	DNE
Arsenic, dissolved	DNE	None	None	DNE	DNE
Arsenic, total	DNE	None	None	DNE	None
Barium, dissolved	DNE	DNE	DNE	DNE	DNE
Barium, total	DNE	DNE	DNE	DNE	DNE
Beryllium, dissolved	DNE	DNE	DNE	DNE	DNE
Beryllium, total	DNE	DNE	DNE	DNE	DNE
Boron, dissolved	-	+	DNE	DNE	DNE
Boron, total	None	+	DNE	DNE	DNE
Cadmium, dissolved	DNE	DNE	DNE	DNE	DNE
Cadmium, total	DNE	DNE	DNE	DNE	DNE
Chloride, dissolved	DNE	DNE	DNE	DNE	DNE
Chromium, dissolved	DNE	DNE	DNE	DNE	DNE
Chromium, total	DNE	DNE	DNE	DNE	DNE
Cobalt, dissolved	DNE	DNE	DNE	DNE	DNE
Cobalt, total	DNE	DNE	DNE	DNE	DNE
Copper, dissolved	DNE	DNE	DNE	DNE	DNE
Copper, total	DNE	DNE	DNE	DNE	DNE
Cyanide, total	DNE	DNE	DNE	DNE	DNE
Fluoride, dissolved	DNE	DNE	DNE	DNE	DNE
Iron, dissolved	DNE	DNE	-	DNE	DNE
Iron, total	+	+	Decrease	DNE	None
Lead, dissolved	DNE	DNE	DNE	DNE	DNE
Lead, total	DNE	DNE	DNE	DNE	None
Manganese, dissolved	None	None	-	DNE	+
Manganese, total	None	None	Decrease	DNE	+
Mercury, dissolved	DNE	DNE	DNE	DNE	DNE
Mercury, total	DNE	DNE	DNE	DNE	DNE
Nickel, dissolved	DNE	DNE	DNE	DNE	DNE
Nickel, total	DNE	DNE	DNE	DNE	DNE
Nitrate (as N), dissolved	DNE	DNE	DNE	DNE	DNE
Nitrite (as N), dissolved*	DNE	DNE	DNE	DNE	DNE
pH	None	DNE	None	DNE	None
Selenium, dissolved	DNE	DNE	DNE	DNE	DNE
Selenium, total	DNE	DNE	DNE	DNE	DNE
Silver, dissolved	DNE	DNE	DNE	DNE	DNE
Silver, total	DNE	DNE	DNE	DNE	DNE
Sulfate, dissolved	DNE	DNE	DNE	Decrease	DNE
Thallium, dissolved	DNE	DNE	DNE	DNE	DNE
Thallium, total	DNE	DNE	DNE	DNE	DNE
Total Dissolved Solids	DNE	DNE	DNE	DNE	DNE
Vanadium, dissolved	DNE	DNE	DNE	DNE	DNE
Vanadium, total	DNE	DNE	DNE	DNE	DNE
Zinc, dissolved	DNE	DNE	DNE	DNE	DNE
Zinc, total	DNE	DNE	DNE	DNE	DNE



Table 3-1. Trend Analysis Results

2023 Annual Report

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Notes:

- 1. Trend analysis was completed for downgradient wells.
- 2. Non-detects were treated as one half the detection limit for Mann Kendall Trend analysis.
- 3. Date range for the Sen's non-parametric estimate of the median slope and trend analysis is 1/1/2022-12/31/2023.
- * = No Class I Groundwater Quality Standard
- = Negative Sen's non-parametric estimate of the median slope
- + = Positive Sen's non-parametric estimate of the median slope

Decrease = Statistically significant decreasing trend

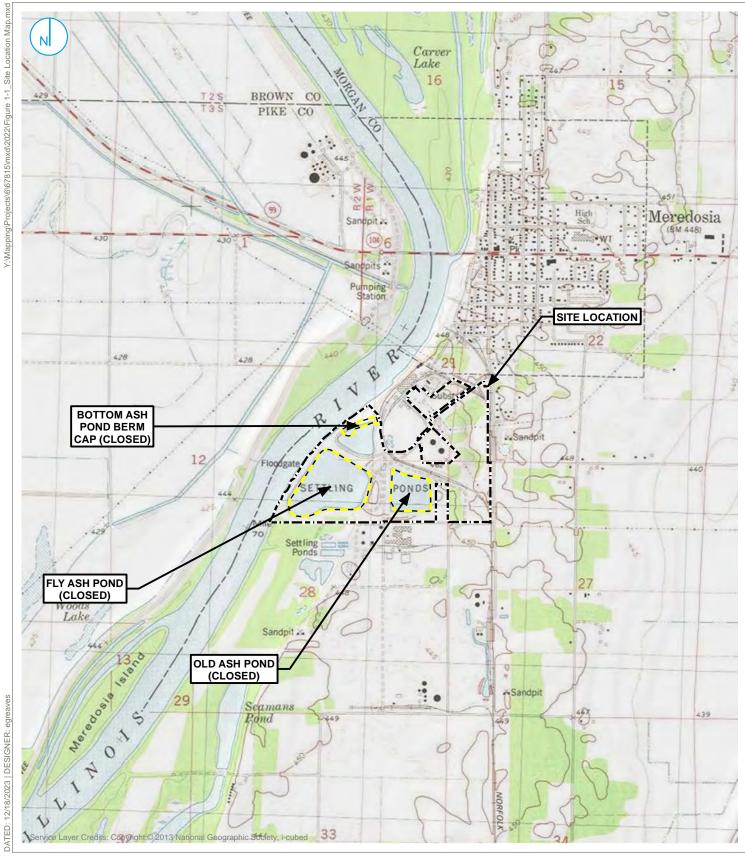
DNE = Constituent did not exceed the Class I groundwater quality standard during the reporting period (2022-2023)

Increase = Statistically significant increasing trend

None = Insufficent evidence of a trend as determined using the Mann-Kendall test at 95% confidence for constituents with maximum concentration higher than the Class I Groundwater Quality Standard



FIGURES





Map Scale: 1:1:24,000; Map Center: 90°34'10"W 39°49'15"N

APPROXIMATE PROPERTY **BOUNDARY**



LIMITS OF CCP -- MANAGEMENT

NOTE

Base map property lines were updated based on March 2019 Plat of Survey.

1,000 2,000

SITE LOCATION MAP

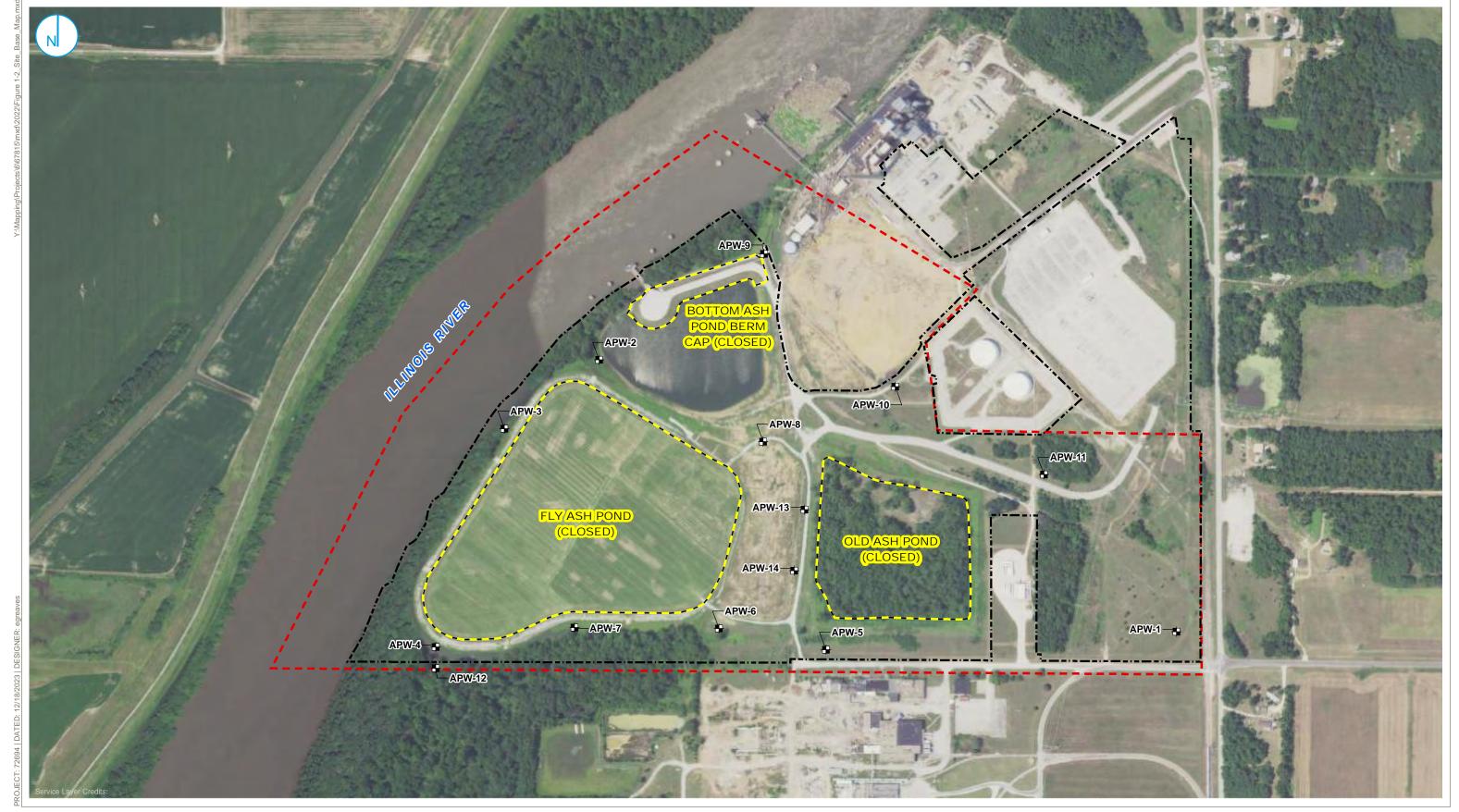
2023 GROUNDWATER MONITORING ANNUAL REPORT

AMEREN ENERGY RESOURCES MEREDOSIA POWER STATION MORGAN COUNTY, ILLINOIS

FIGURE 1-1

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.





MONITORING WELL LOCATION

APPROXIMATE PROPERTY BOUNDARY

LIMITS OF CCP MANAGEMENT

APPROXIMATE GROUNDWATER MONITORING ZONE

NOTE

Base map property lines were updated based on March 2019 Plat of Survey.

MONITORING WELL LOCATION MAP

2023 GROUNDWATER MONITORING ANNUAL REPORT

AMEREN ENERGY RESOURCES

MEREDOSIA POWER STATION

MORGAN COUNTY, ILLINOIS

FIGURE 1-2

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



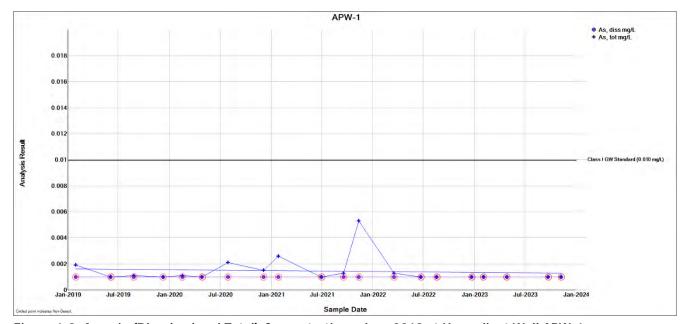


Figure 1-3. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-1 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

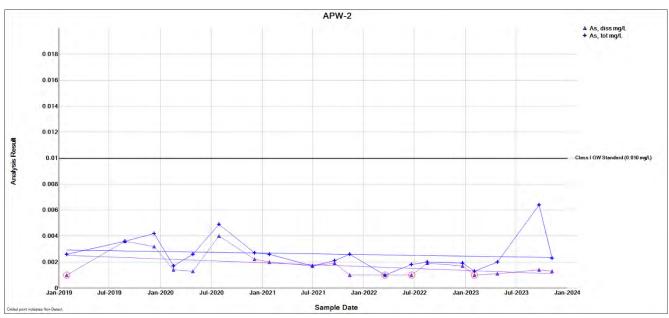


Figure 1-4. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-2

The Class Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.



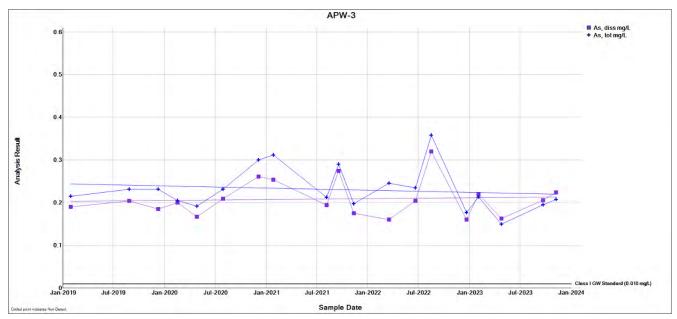


Figure 1-5. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-3 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

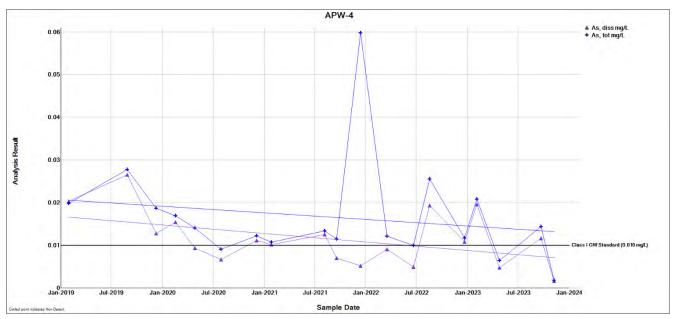


Figure 1-6. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-4 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.



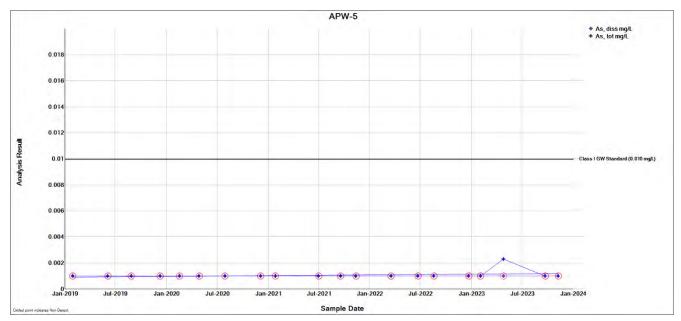
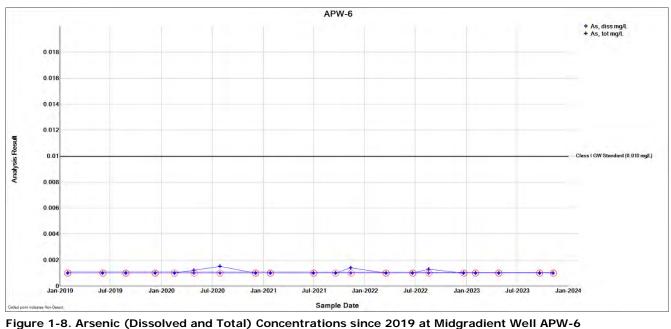


Figure 1-7. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-5
The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.



The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.



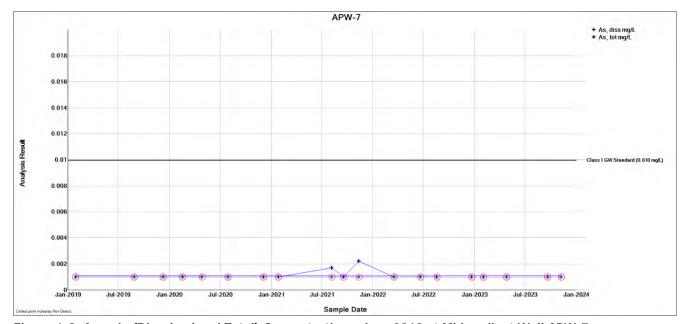


Figure 1-9. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-7
The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

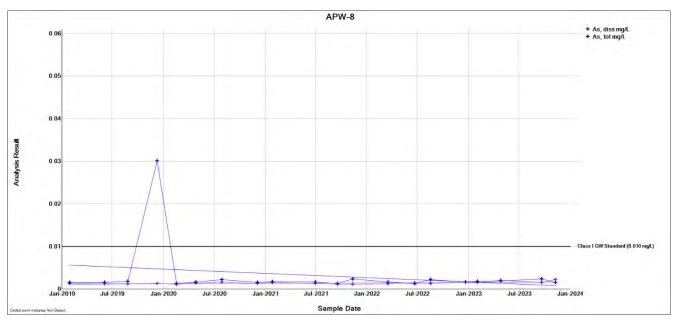


Figure 1-10. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-8 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.



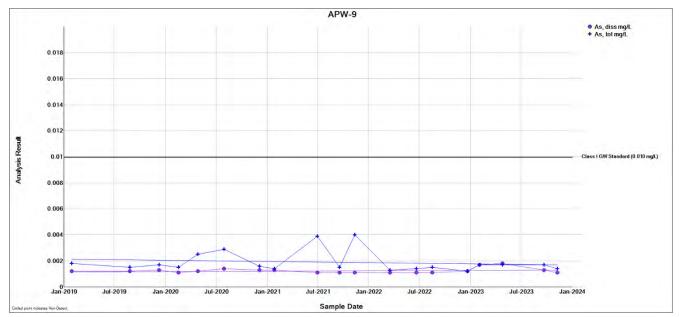


Figure 1-11. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-9 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

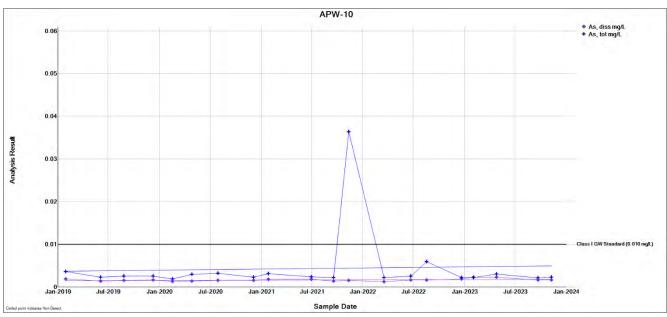


Figure 1-12. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-10 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

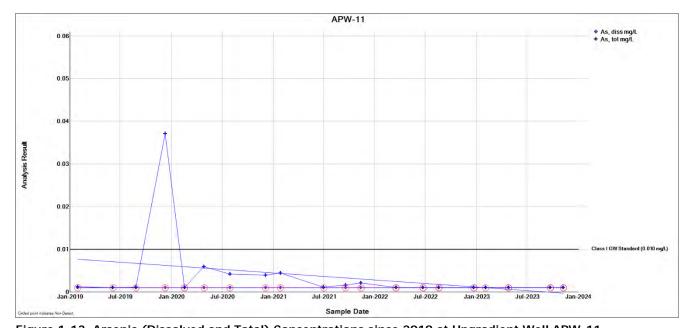


Figure 1-13. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-11 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

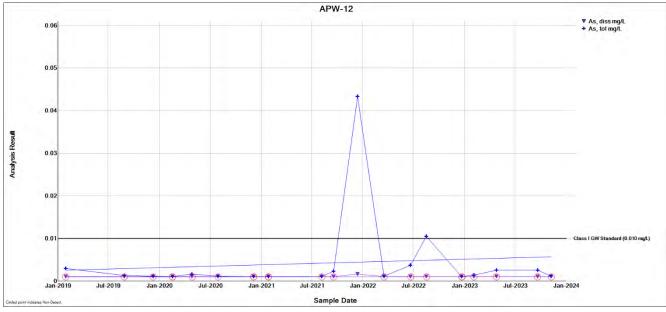


Figure 1-14. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-12
The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.



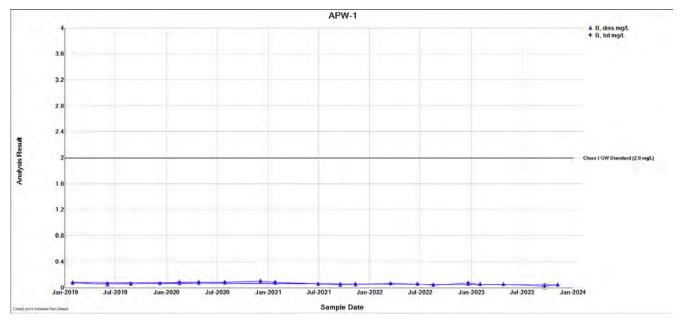


Figure 1-15. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-1 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only. Circled results indicate non-detects.

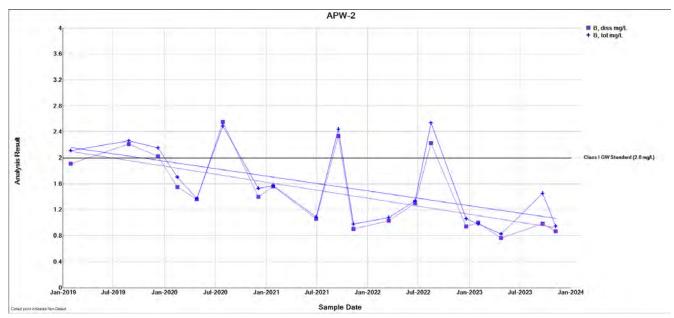


Figure 1-16. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-2 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.



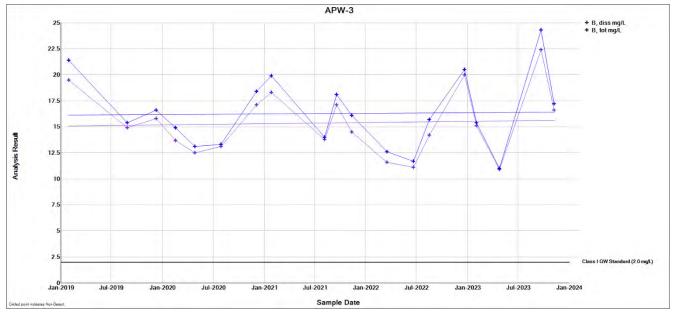


Figure 1-17. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-3 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

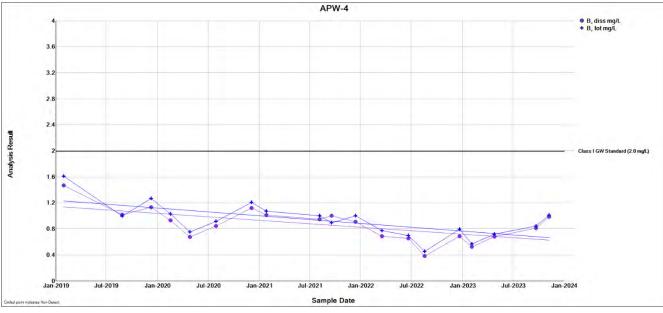


Figure 1-18. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-4 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

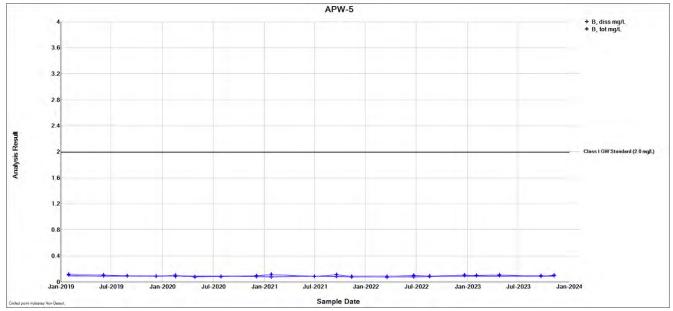


Figure 1-19. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-5 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

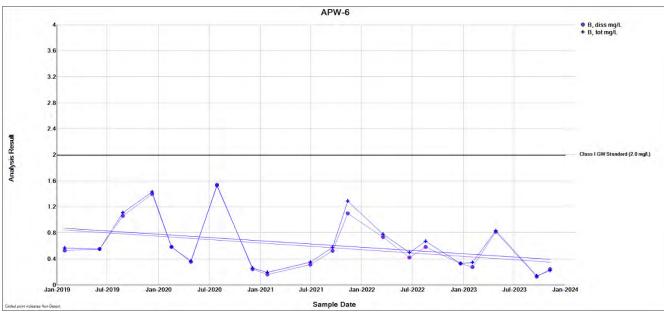


Figure 1-20. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-6 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.



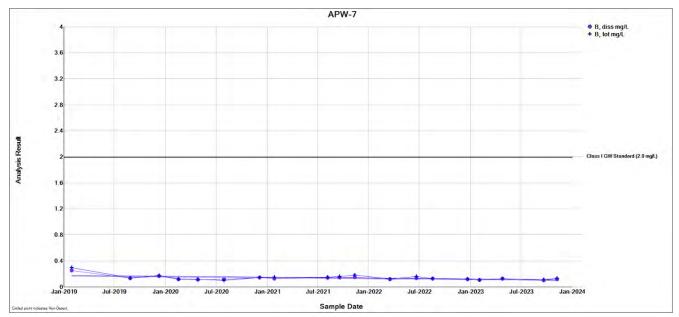


Figure 1-21. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-7 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

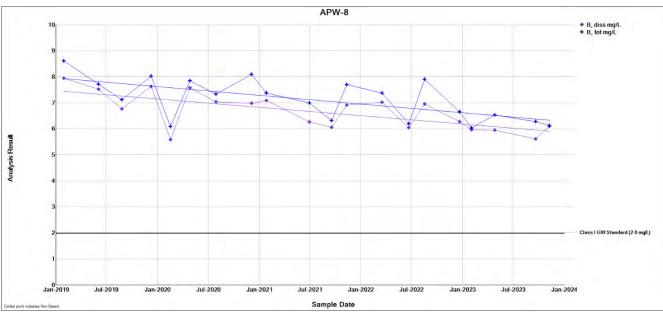


Figure 1-22. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-8 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.



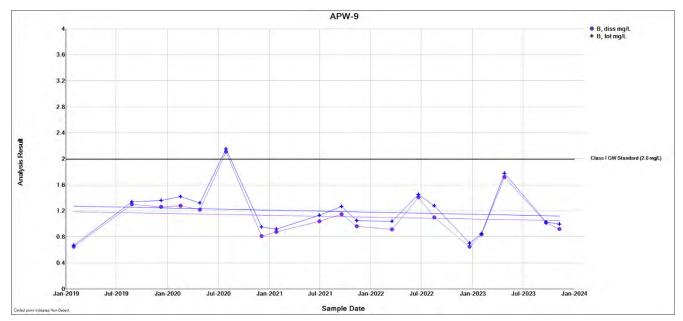


Figure 1-23. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-9 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

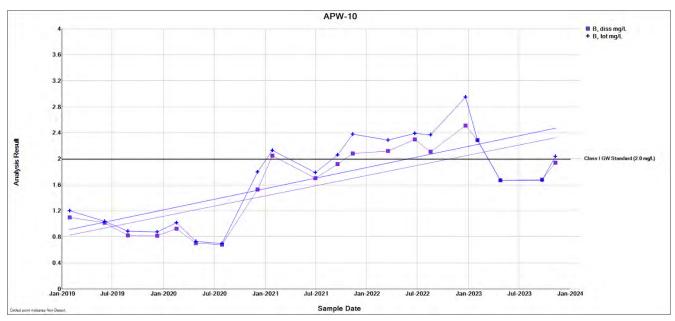


Figure 1-24. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-10 The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.



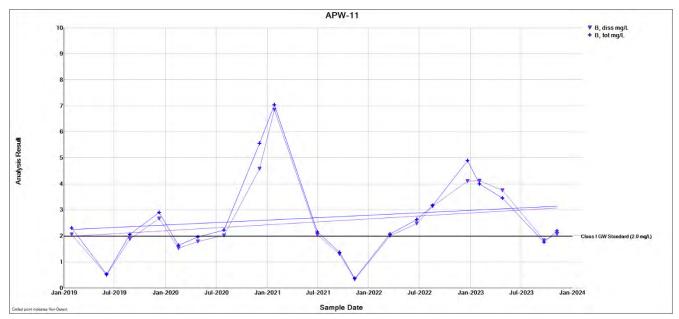


Figure 1-25. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-11

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.

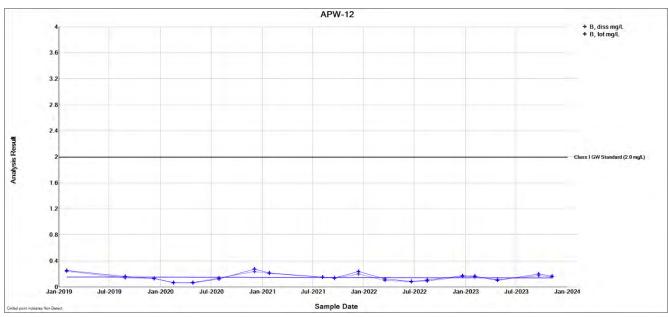


Figure 1-26. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-12

The Class I Groundwater Standard is not applicable within the GMZ and is shown for reference only.





Base map property lines were updated

based on March 2019 Plat of Survey.

MONITORING WELL LOCATION GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD88)

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

APPROXIMATE PROPERTY BOUNDARY

LIMITS OF CCP MANAGEMENT

NAVD88 = North American Vertical Datum of 1988

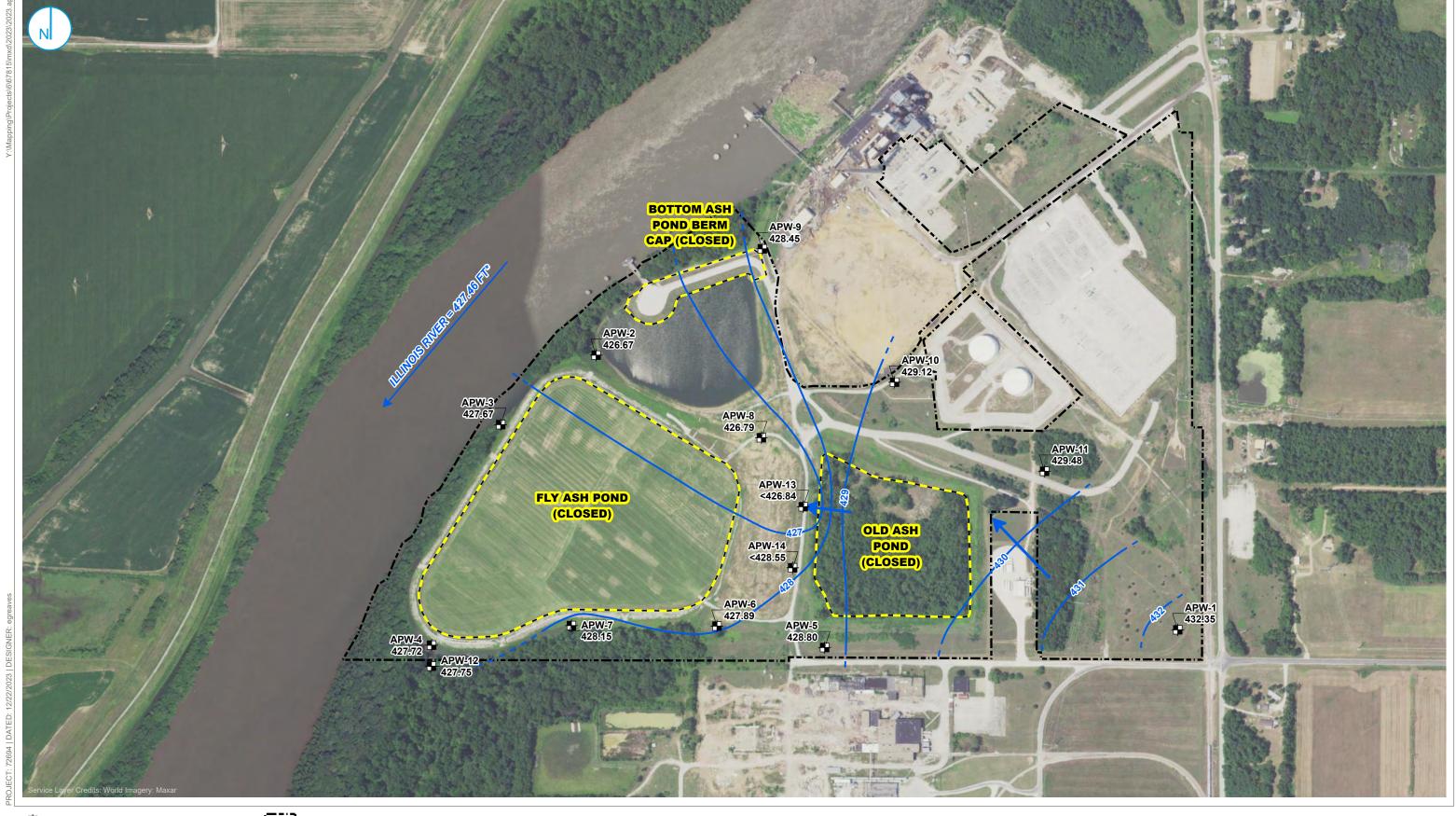
*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing. NM= Groundwater Elevation Not Measured Due to Flooding NGVD29 = National Geodetic Vertical Datum of 1929

GROUNDWATER ELEVATIONS - FEBRUARY 2-3, 2023

2023 GROUNDWATER MONITORING ANNUAL REPORT AMEREN ENERGY RESOURCES MEREDOSIA POWER STATION MORGAN COUNTY, ILLINOIS

FIGURE 3-1





Base map property lines were updated

based on March 2019 Plat of Survey.

MONITORING WELL LOCATION GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD88)

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

APPROXIMATE PROPERTY BOUNDARY LIMITS OF CCP MANAGEMENT

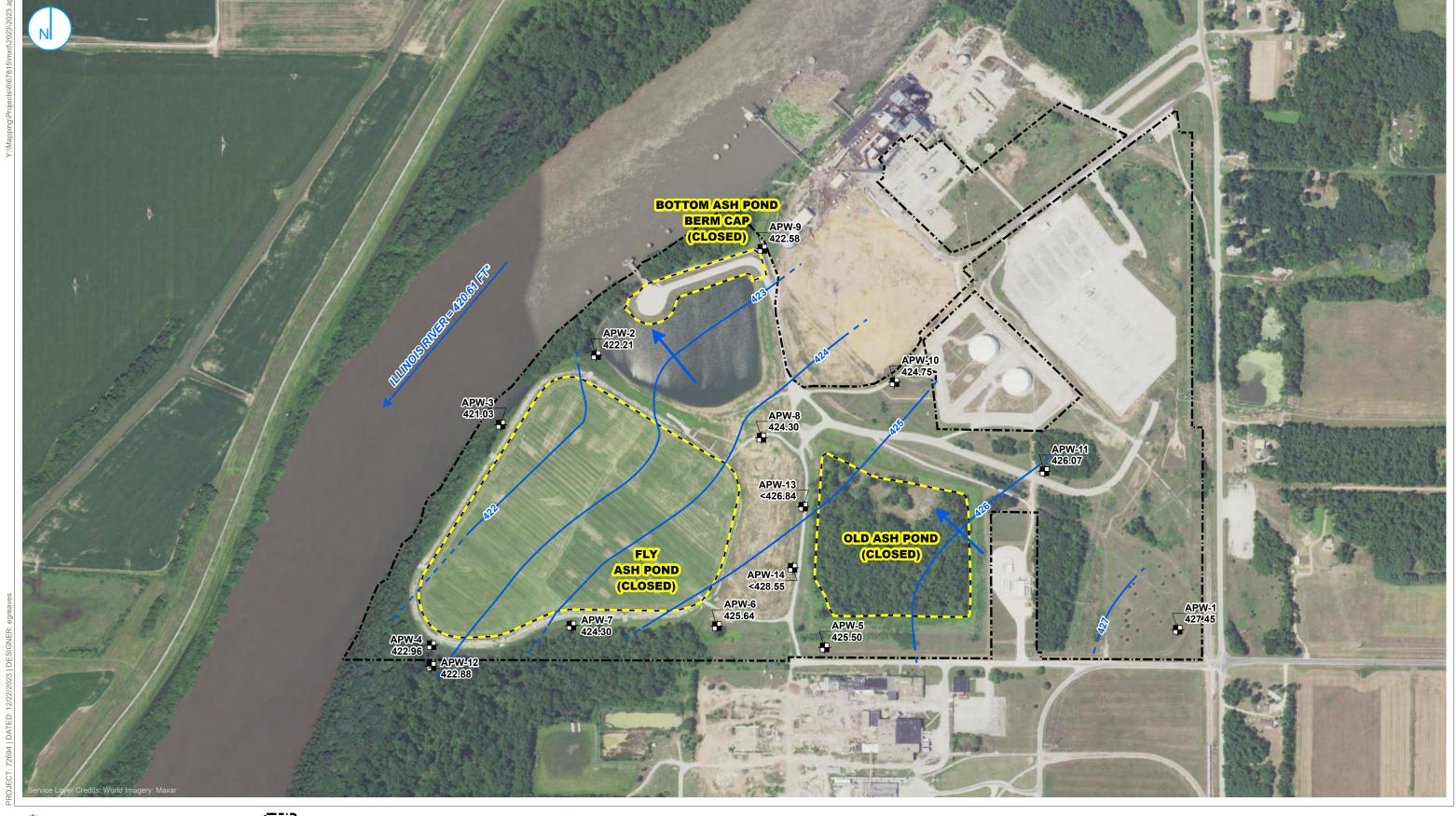
*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing. NM= Groundwater Elevation Not Measured Due to Flooding NGVD29 = National Geodetic Vertical Datum of 1929 NAVD88 = North American Vertical Datum of 1988

GROUNDWATER ELEVATIONS - APRIL 25-26, 2023

2023 GROUNDWATER MONITORING ANNUAL REPORT AMEREN ENERGY RESOURCES MEREDOSIA POWER STATION MORGAN COUNTY, ILLINOIS

FIGURE 3-2





MONITORING WELL LOCATION
GROUNDWATER ELEVATION CONTOUR
(1-FT INTERVAL, NAVD88)

- - - INFERRED GROUNDWATER ELEVATION CONTOUR

→ GROUNDWATER FLOW DIRECTION

OUR ...

APPROXIMATE PROPERTY BOUNDARY

LIMITS OF CCP MANAGEMENT

NAVD88 = North American Vertical Datum of 1988

*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing. NM= Groundwater Elevation Not Measured Due to Flooding NGVD29 = National Geodetic Vertical Datum of 1929

OTF

Base map property lines were updated based on March 2019 Plat of Survey.

GROUNDWATER ELEVATIONS - SEPTEMBER 20-22, 2023

2023 GROUNDWATER MONITORING ANNUAL REPORT

AMEREN ENERGY RESOURCES

MEREDOSIA POWER STATION

MORGAN COUNTY, ILLINOIS

FIGURE 3-3





Base map property lines were updated based on March 2019 Plat of Survey.

MONITORING WELL LOCATION
GROUNDWATER ELEVATION CONTOUR
(1-FT INTERVAL, NAVD88)

- - - INFERRED GROUNDWATER ELEVATION CONTOUR

→ GROUNDWATER FLOW DIRECTION

OUR ...

APPROXIMATE PROPERTY BOUNDARY

LIMITS OF CCP MANAGEMENT

*River Elevation obtained from United States Geological Survey 05585500 Meredosia, IL gaging station. The elevation was reported in NGVD29 and then converted to NAVD88 at the time of this drawing. NM= Groundwater Elevation Not Measured Due to Flooding NGVD29 = National Geodetic Vertical Datum of 1929 NAVD88 = North American Vertical Datum of 1988

GROUNDWATER ELEVATIONS - NOVEMBER 8-9, 2023

2023 GROUNDWATER MONITORING ANNUAL REPORT

AMEREN ENERGY RESOURCES

MEREDOSIA POWER STATION

MORGAN COUNTY, ILLINOIS

FIGURE 3-4



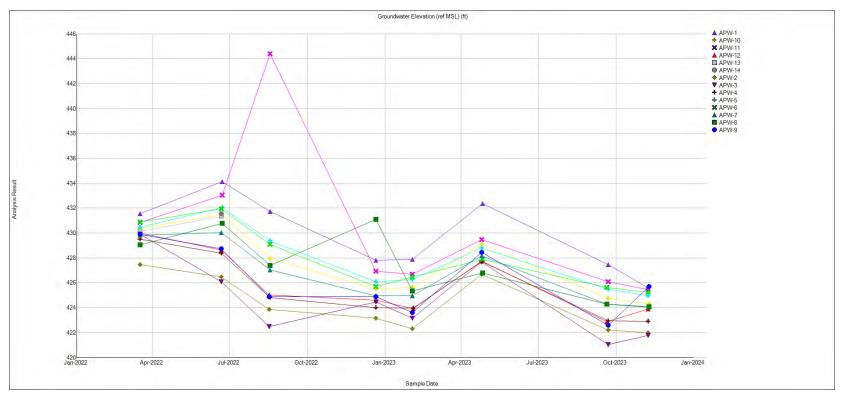


Figure 3-5. Groundwater Elevations Timeseries Plot



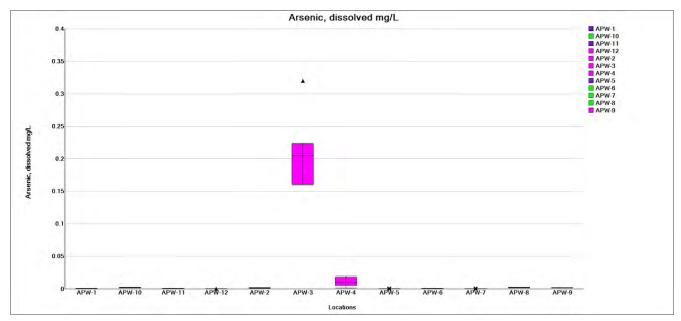


Figure 3-6A. Box-Whisker Plot Showing Distribution of Dissolved Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

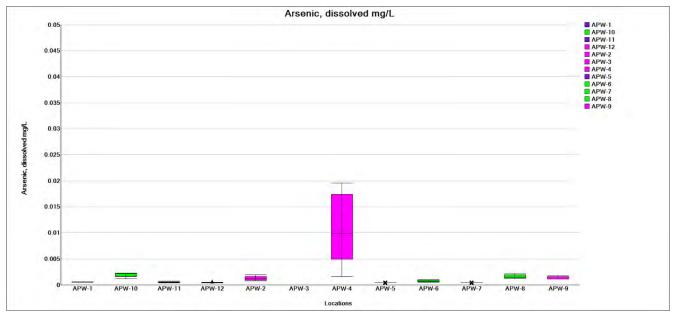


Figure 3-6B. Box-Whisker Plot Showing Distribution of Dissolved Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023 (Zoomed In).

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.



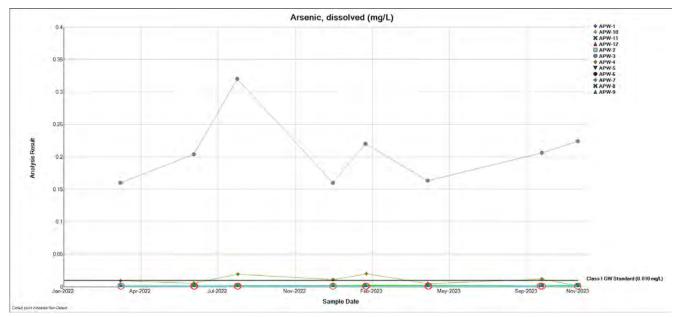


Figure 3-7A. Dissolved Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells

Circled results indicate non-detects.

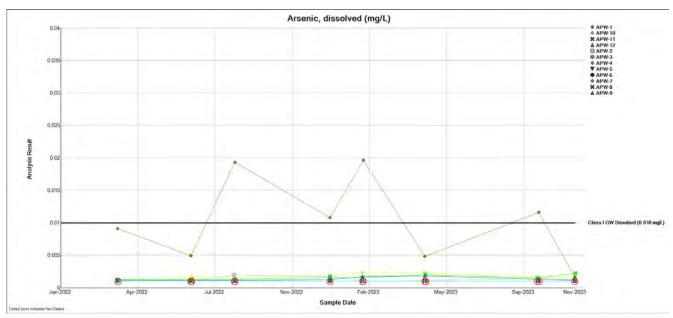


Figure 3-7B. Dissolved Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells (Zoomed In).

Circled results indicate non-detects.



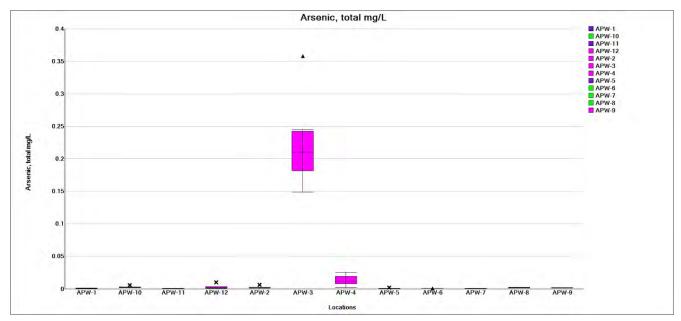


Figure 3-8A. Box-Whisker Plot Showing Distribution of Total Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

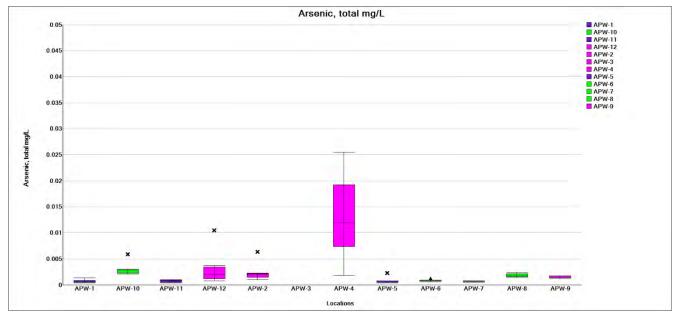


Figure 3-8B. Box-Whisker Plot Showing Distribution of Total Arsenic Concentration by Monitoring Well for Data Collected in 2022 and 2023 (Zoomed In).

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.



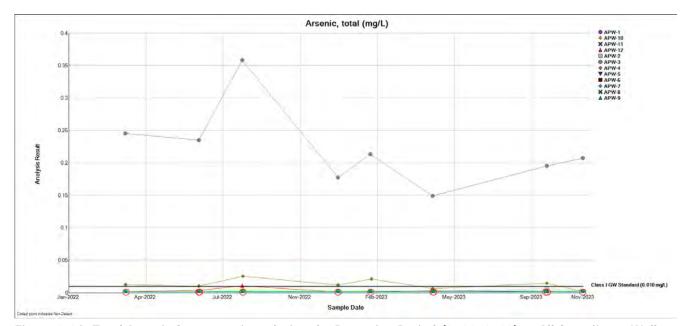


Figure 3-9A. Total Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells. Circled results indicate non-detects.

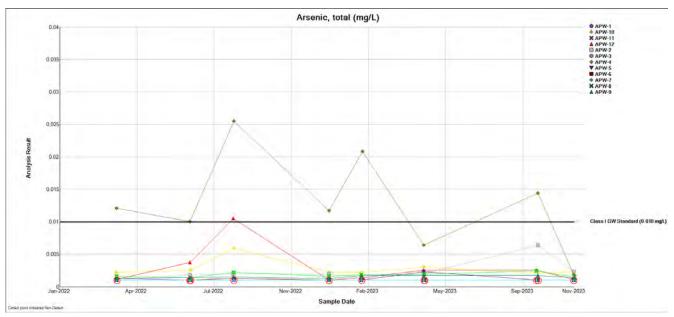


Figure 3-9B. Total Arsenic Concentrations during the Reporting Period (2022–2023) at All Compliance Wells (Zoomed In).

Circled results indicate non-detects.



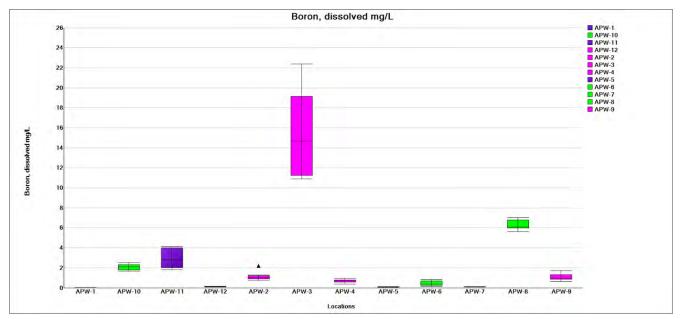


Figure 3-10. Box-Whisker Plot Showing Distribution of Dissolved Boron Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the interquartile range (IQR) of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

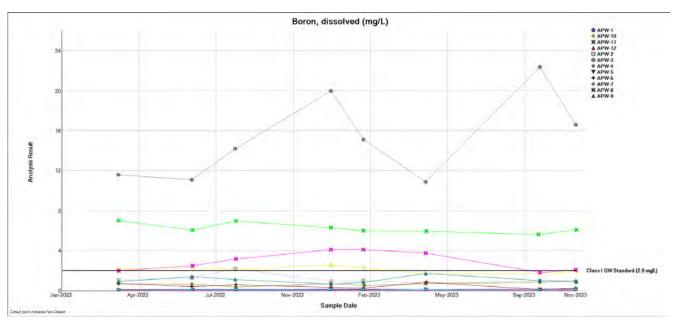


Figure 3-11. Dissolved Boron Concentrations during the Reporting Period (2022–2023) at All Compliance Wells.



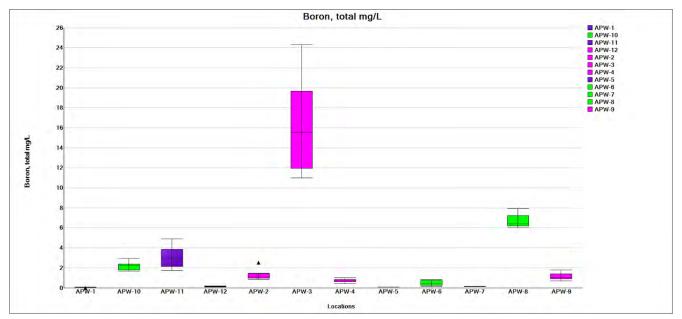


Figure 3-12. Box-Whisker Plot Showing Distribution of Total Boron Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

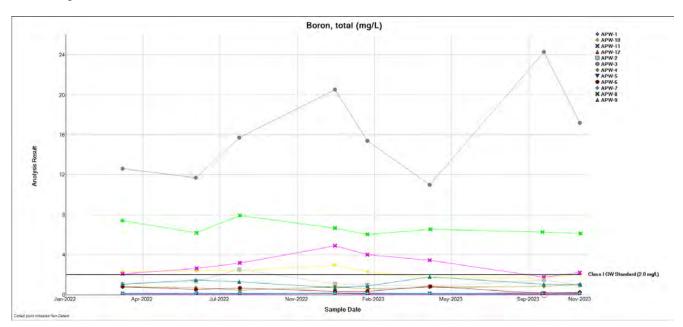


Figure 3-13. Total Boron Concentrations during the Reporting Period (2022–2023) at All Compliance Wells. Circled results indicate non-detects.



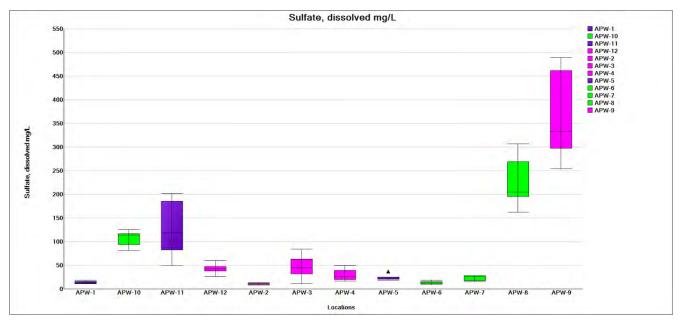


Figure 3-14. Box-Whisker Plot Showing Distribution of Dissolved Sulfate Concentration by Monitoring Well for Data Collected in 2022 and 2023.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink. The triangle symbol represents an outlier greater than 1.5 times the IQR of the dataset, the "X" symbol represents an outlier greater than 3 times the IQR.

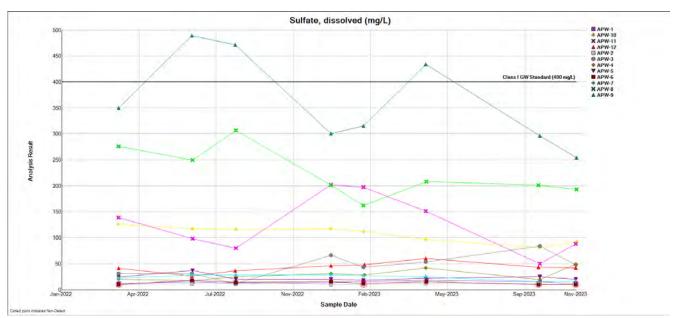


Figure 3-15. Dissolved Sulfate Concentrations during the Reporting Period (2022–2023) at All Compliance Wells.

Circled results indicate non-detects.



APPENDIX A GROUNDWATER MONITORING RESULTS 2022-2023

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/22/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
As, tot, mg/L	0.0013	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
B, diss, mg/L	0.0619	0.0553	0.0402	0.0585	0.0540	0.0510	0.0387	0.0473
B, tot, mg/L	0.0604	0.0577	0.0410	0.0719	0.0508	0.0535	< 0.0200	0.0431
Ba, diss, mg/L	0.0094	0.0193	0.0131	0.0090	0.0169	0.0135	0.0121	0.0079
Ba, tot, mg/L	0.0159	0.0238	0.0165	0.0130	0.0172	0.0203	0.0144	0.0096
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	46.0	159.0	84.0	42.0	64.0	69.0	92.0	47.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0173	< 0.0050	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	0.23	0.23	0.33	0.30	0.29	0.17	0.28	0.54
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	1.6400	0.9330	0.6240	0.4690	0.8640	0.8300	0.0704	0.4680
GW Elv, ft	431.57	434.14	431.72	427.83	427.88	432.35	427.45	425.58
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
Mn, tot, mg/L	0.1110	0.1190	0.0687	0.0429	0.0842	0.0753	0.0093	0.0400
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	0.0069	0.0053	< 0.0050	< 0.0050	0.0112	0.0055	< 0.0050	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	4.350	2.290	6.110	3.220	2.800	3.100	2.520	2.760
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	0.0018	0.0016	< 0.0010	< 0.0010	0.0011	< 0.0010	0.0046	< 0.0010
pH (field), STD	6.93	6.93	6.84	7.02	6.98	6.52	6.60	7.27
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	11	15	12	13	16	18	15	11
Spec. Cond. (field), micromho	491	685	711	564	575	687	665	433
TDS, mg/L	208	420	392	240	264	204	344	246
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0271	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010	0.0019	0.0017	< 0.0010	0.0011	0.0014	0.0013
As, tot, mg/L	0.0010	0.0018	0.0020	0.0019	0.0013	0.0020	0.0064	0.0023
B, diss, mg/L	1.0300	1.3000	2.2200	0.9390	1.0000	0.7620	0.9840	0.8660
B, tot, mg/L	1.0800	1.3400	2.5400	1.0600	0.9780	0.8260	1.4500	0.9480
Ba, diss, mg/L	0.0357	0.0417	0.0544	0.0375	0.0435	0.0374	0.0399	0.0414
Ba, tot, mg/L	0.0398	0.0573	0.0639	0.0500	0.0482	0.0482	0.1220	0.0653
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	2.0	8.0	17.0	<4.0	2.0	<4.0	<4.0	<4.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0074	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0083	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0071	< 0.0050
F, diss, mg/L	0.30	0.29	0.26	0.31	0.29	0.30	0.28	0.32
Fe, diss, mg/L	< 0.0400	< 0.0400	0.0409	< 0.0400	< 0.0400	< 0.0400	< 0.0400	0.0617
Fe, tot, mg/L	0.2900	2.0800	1.0800	0.5080	0.6590	1.5700	11.9000	2.9600
GW Elv, ft	427.46	426.48	423.87	423.17	422.31	426.67	422.21	421.98
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	0.0519	0.1710	0.4400	0.0834	0.0451	0.0423	0.2020	0.1180
Mn, tot, mg/L	0.0743	0.2710	0.5330	0.1440	0.0774	0.1880	0.7790	0.2320
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0078	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.056
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	0.0012	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0039	0.0015
pH (field), STD	6.84	6.98	6.84	6.87	6.88	6.42	6.54	6.77
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	0.0011
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	10	11	14	10	<10	12	11	<10
Spec. Cond. (field), micromho	684	479	793	704	571	678	680	548
TDS, mg/L	300	356	492	332	362	178	374	276
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0114	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0233	0.0102

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	0.1600	0.2040	0.3200	0.1600	0.2200	0.1630	0.2060	0.2240
As, tot, mg/L	0.2450	0.2350	0.3580	0.1770	0.2130	0.1490	0.1950	0.2070
B, diss, mg/L	11.6000	11.1000	14.2000	20.0000	15.1000	10.9000	22.4000	16.6000
B, tot, mg/L	12.6000	11.7000	15.7000	20.5000	15.4000	11.0000	24.3000	17.2000
Ba, diss, mg/L	0.0895	0.0701	0.0716	0.1140	0.1550	0.0972	0.1040	0.1280
Ba, tot, mg/L	0.1100	0.1150	0.1140	0.1570	0.1420	0.1060	0.1670	0.1540
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	16.0	17.0	17.0	26.0	17.0	17.0	34.0	19.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0073	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0115	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0128	< 0.0050
F, diss, mg/L	0.20	0.20	0.20	0.18	0.17	0.19	0.18	0.19
Fe, diss, mg/L	4.4500	1.9500	1.5500	3.7200	4.8400	3.8300	3.3400	3.9700
Fe, tot, mg/L	6.0000	7.7400	6.5600	6.7000	5.4400	4.8000	15.4000	7.0800
GW Elv, ft	429.89	426.09	422.48	424.47	423.17	427.67	421.03	421.78
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	1.0700	1.0200	0.9800	1.0700	1.3200	1.1500	1.0200	1.3600
Mn, tot, mg/L	1.1700	1.1600	1.1200	1.3100	1.3800	1.1300	1.2100	1.4800
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0071	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	0.0020	0.0011	0.0018	< 0.0010	< 0.0010	0.0068	0.0015
pH (field), STD	7.24	7.35	7.45	7.28	7.31	6.89	7.05	7.30
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	31	31	11	66	43	53	84	48
Spec. Cond. (field), micromho	1310	772	1030	1430	1280	1350	1190	1230
TDS, mg/L	636	612	676	760	850	560	755	785
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0160	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	0.0131	< 0.0100	0.0122	< 0.0100	< 0.0100	0.0371	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/18/2022	12/21/2022	2/3/2023	4/25/2023	9/22/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	0.0091	0.0049	0.0193	0.0108	0.0196	0.0048	0.0116	0.0016
As, tot, mg/L	0.0121	0.0100	0.0255	0.0117	0.0208	0.0064	0.0144	0.0018
B, diss, mg/L	0.6870	0.6520	0.3840	0.6870	0.5220	0.6830	0.8120	0.9840
B, tot, mg/L	0.7730	0.6970	0.4550	0.7960	0.5660	0.7170	0.8460	1.0100
Ba, diss, mg/L	0.0350	0.0335	0.0287	0.0300	0.0436	0.0289	0.0324	0.0326
Ba, tot, mg/L	0.0586	0.0708	0.0669	0.0461	0.0505	0.0336	0.0424	0.0373
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	30.0	36.0	53.0	35.0	41.0	22.0	21.0	12.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	0.0069	< 0.0050	0.0105	0.0139	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	0.40	0.37	0.38	0.41	0.39	0.37	0.43	0.36
Fe, diss, mg/L	9.2000	4.5000	7.3600	4.6600	7.7400	1.6200	7.7900	0.1110
Fe, tot, mg/L	14.0000	12.2000	16.2000	6.0900	9.2900	2.5600	10.8000	0.8160
GW Elv, ft	429.50	428.37	424.82	424.02	423.97	427.72	422.96	422.91
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	1.4900	1.3200	1.4400	1.2400	1.3700	1.1100	1.5500	0.4730
Mn, tot, mg/L	1.7000	1.4800	1.7000	1.5300	1.4000	1.1900	1.6200	0.4990
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	< 0.050	< 0.050	0.210	< 0.050	< 0.050	0.212	< 0.050	3.890
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	0.0014	0.0021	0.0038	0.0038	0.0014	< 0.0010	< 0.0010	< 0.0010
pH (field), STD	6.92	6.94	6.77	6.85	6.91	6.42	6.82	6.78
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/18/2022	12/21/2022	2/3/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	20	17	25	31	28	42	19	49
Spec. Cond. (field), micromho	890	520	613	954	718	901	813	819
TDS, mg/L	396	368	420	444	360	410	465	534
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	0.0111	0.0133	0.0221	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
As, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0023	< 0.0010	< 0.0010
B, diss, mg/L	0.0693	0.0730	0.0806	0.0967	0.0993	0.1130	0.0852	0.1080
B, tot, mg/L	0.0826	0.0982	0.0884	0.1040	0.0943	0.0924	0.0936	0.0975
Ba, diss, mg/L	0.0063	0.0085	0.0069	0.0071	0.0084	0.0101	0.0082	0.0083
Ba, tot, mg/L	0.0085	0.0095	0.0085	0.0082	0.0093	0.0162	0.0090	0.0091
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	3.0	2.0	2.0	9.0	10.0	12.0	5.0	<4.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0054	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	0.17	0.19	0.18	0.22	0.20	0.20	0.21	0.21
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	0.4990	0.1080	0.3880	< 0.0400	< 0.0400	2.2200	< 0.0400	< 0.0400
GW Elv, ft	430.46	432.05	429.36	426.10	426.25	428.80	425.50	424.97
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
Mn, tot, mg/L	0.0653	0.0190	0.0688	< 0.0070	< 0.0070	0.2350	0.0070	< 0.0070
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0089	< 0.0050	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	2.220	2.600	2.310	1.760	1.920	2.400	2.790	2.760
Pb, diss, mg/L	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0032	< 0.0010	< 0.0010
pH (field), STD	7.42	7.27	7.38	7.41	7.39	7.41	7.11	7.49
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	24	37	20	20	18	22	25	20
Spec. Cond. (field), micromho	580	476	445	642	531	670	567	485
TDS, mg/L	238	330	272	288	300	142	324	326
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/20/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
As, tot, mg/L	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
B, diss, mg/L	0.7370	0.4230	0.5850	0.3270	0.2730	0.8160	0.1300	0.2440
B, tot, mg/L	0.7800	0.4980	0.6680	0.3300	0.3470	0.8340	0.1410	0.2180
Ba, diss, mg/L	0.0124	0.0136	0.0113	0.0099	0.0105	0.0119	0.0094	0.0106
Ba, tot, mg/L	0.0145	0.0148	0.0140	0.0107	0.0106	0.0143	0.0103	0.0123
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	1.0	3.0	1.0	<4.0	2.0	<4.0	<4.0	<4.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	0.14	0.15	0.16	0.13	0.12	0.16	0.12	0.11
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	0.4860	0.2420	0.9660	0.1300	< 0.0400	0.1200	< 0.0400	0.3360
GW Elv, ft	430.90	431.94	429.07	425.70	426.47	427.89	425.64	425.24
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
Mn, tot, mg/L	0.0279	0.0144	0.0609	0.0081	< 0.0070	0.0084	< 0.0070	0.0325
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	0.205	0.175	0.253	0.622	0.538	0.326	0.377	0.321
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
pH (field), STD	7.15	7.17	7.27	7.27	7.26	6.70	7.03	7.08
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/20/2023	11/8/2023
SO4, diss, mg/L	<10	18	14	15	12	15	<10	10
Spec. Cond. (field), micromho	606	391	408	593	485	699	512	492
TDS, mg/L	252	272	242	258	248	244	282	298
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/20/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
As, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
B, diss, mg/L	0.1160	0.1350	0.1250	0.1180	0.1070	0.1260	0.1020	0.1140
B, tot, mg/L	0.1230	0.1590	0.1270	0.1200	0.1070	0.1240	0.1130	0.1350
Ba, diss, mg/L	0.0285	0.0333	0.0270	0.0196	0.0218	0.0246	0.0184	0.0171
Ba, tot, mg/L	0.0331	0.0357	0.0304	0.0251	0.0227	0.0271	0.0206	0.0221
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	21.0	35.0	48.0	38.0	36.0	24.0	18.0	18.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	0.23	0.26	0.27	0.27	0.22	0.23	0.26	0.26
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	0.3870	0.6260	0.4740	0.5090	0.2120	0.3470	0.1240	0.6720
GW Elv, ft	429.81	430.02	427.05	424.95	424.95	428.15	424.30	424.04
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
Mn, tot, mg/L	0.0423	0.0393	0.0283	0.0288	0.0124	0.0207	0.0137	0.0422
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	3.140	5.000	3.380	1.140	1.420	2.570	0.892	1.070
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
pH (field), STD	6.97	7.15	6.90	7.10	7.10	6.50	6.96	7.12
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/20/2023	11/8/2023
SO4, diss, mg/L	22	28	28	28	27	25	15	16
Spec. Cond. (field), micromho	723	471	587	743	604	750	600	524
TDS, mg/L	310	334	356	348	344	322	330	310
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/20/2023	11/9/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	0.0012	0.0012	0.0013	0.0016	0.0015	0.0020	0.0015	0.0022
As, tot, mg/L	0.0016	0.0014	0.0022	0.0016	0.0018	0.0019	0.0024	0.0015
B, diss, mg/L	7.0200	6.0500	6.9600	6.2800	5.9700	5.9500	5.6100	6.1000
B, tot, mg/L	7.3800	6.2000	7.9100	6.6500	6.0300	6.5300	6.2700	6.1300
Ba, diss, mg/L	0.0538	0.0706	0.0676	0.0479	0.0521	0.0631	0.0508	0.0495
Ba, tot, mg/L	0.0583	0.0748	0.0781	0.0552	0.0568	0.0637	0.0604	0.0508
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	12.0	11.0	11.0	11.0	12.0	12.0	10.0	11.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	0.0256	0.0072	0.0108	0.0320	0.0223	0.0133	0.0102	0.0118
Cr, tot, mg/L	0.0278	0.0078	0.0138	0.0381	0.0230	0.0134	0.0126	0.0117
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	0.13	0.10	0.12	< 0.10	< 0.10	0.13	< 0.10	< 0.10
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	0.1300	0.1240	0.9260	0.0751	< 0.0400	0.2460	0.9890	< 0.0400
GW Elv, ft	429.06	430.76	427.39	431.11	425.35	426.79	424.30	424.08
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
Mn, tot, mg/L	0.0156	0.0158	0.1010	0.0159	< 0.0070	0.0252	0.1320	< 0.0070
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0062	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	4.730	4.280	3.900	3.330	3.360	3.650	4.090	3.880
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	0.0013	< 0.0010
pH (field), STD	7.34	7.29	7.41	7.44	7.43	6.89	7.24	7.07
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	0.0583	0.0698	0.0614	< 0.0400	0.0512	< 0.0400	0.0801	0.0600
Se, tot, mg/L	0.0627	0.0720	0.0819	0.0451	0.0492	0.0546	0.0798	0.0666

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/26/2023	9/20/2023	11/9/2023
SO4, diss, mg/L	276	249	306	201	162	208	201	193
Spec. Cond. (field), micromho	1240	747	881	1050	787	908	858	746
TDS, mg/L	658	600	652	572	520	544	566	540
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

Ag, diss, mg/L <0.007		3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/9/2023
As, diss, mg/L 0.0011 0.0011 0.0011 0.0012 0.0017 0.0018 0.0013 0.0011 As, tot, mg/L 0.0013 0.0014 0.0015 0.0017 0.0017 0.0017 0.0010 0.0010 0.0010 0.0010 0.0017 0.0017 0.0017 0.0010 0.0010 0.0012 0.0017 0.0017 0.0012 0.0115 0.0115 0.0112	Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, tot, mg/L B. diss, mg/L 0.0015 0.0014 0.0015 0.0016 0.06460 0.8360 1.7200 1.0200 0.9180 Bs, tot, mg/L 1.0400 1.4100 1.1500 0.64660 0.8360 1.7200 1.0200 0.9180 Bs, tot, mg/L 1.0400 1.4500 1.2500 0.7030 0.8520 1.7800 1.0300 0.9980 Bs, diss, mg/L 0.0177 0.0281 0.0212 0.0117 0.0146 0.0206 0.0128 0.0112 Bs, tot, mg/L 0.0199 0.0335 0.0239 0.0147 0.0173 0.0216 0.0216 0.0005 0.00	Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
B, diss, mg/L B, tot, mg/L B,	As, diss, mg/L	0.0011	0.0011	0.0011	0.0012	0.0017	0.0018	0.0013	0.0011
B. tot, mg/L	As, tot, mg/L	0.0013	0.0014	0.0015	0.0012	0.0017	0.0017	0.0017	0.0014
Ba, diss, mg/L 0.0177 0.0281 0.0212 0.0117 0.0146 0.0206 0.0128 0.0112 Ba, tor, mg/L 0.0199 0.0335 0.0239 0.0147 0.0173 0.0216 0.0155 0.0138 Be, diss, mg/L <0.00005	B, diss, mg/L	0.9150	1.4100	1.1000	0.6460	0.8360	1.7200	1.0200	0.9180
Ba, tot, mg/L Bc, diss, mg/L Co, 0005 Co, 0005 Co, tot, mg/L Co, tiss, m	B, tot, mg/L	1.0400	1.4500	1.2800	0.7030	0.8520	1.7800	1.0300	0.9960
Be, diss, mg/L	Ba, diss, mg/L	0.0177	0.0281	0.0212	0.0117	0.0146	0.0206	0.0128	0.0112
Be, tot, mg/L	Ba, tot, mg/L	0.0199	0.0335	0.0239	0.0147	0.0173	0.0216	0.0155	0.0134
$ \begin{array}{c} Cd, \ diss, \ mg/L \\ Cd, \ diss, \ mg/L \\ Cl, \ diss, \ dis$	Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
$ \begin{array}{c} Cl, \ diss, \ mg/L \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Co, diss, mg/L <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050	Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
$ \begin{array}{c} C_0, \ tot, \ mg/L \\ C_0, \ tot, \ mg/L \\ C_0, \ tot, \ mg/L \\ C_0, \ diss, \ $	Cl, diss, mg/L	2.0	3.0	2.0	<4.0	1.0	5.0	<4.0	<4.0
Cr, diss, mg/L	Co, diss, mg/L	< 0.0050	< 0.0050	0.0070	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
$ \begin{array}{c} Cr, \ tot, \ mg/L \\ Cv, \ tot, \ mg/L \\ Cv, \ diss, \ diss,$	Co, tot, mg/L	< 0.0050	< 0.0050	0.0074	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L O.36 O.26 O.35 O.52 O.46 O.41 O.49 O.55 Fe, diss, mg/L O.0400	Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fe, diss, mg/L	Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fe, tot, mg/L 0.1270 0.9960 0.1220 0.1510 0.1930 <0.0400 0.5890 0.2920 GW Elv, ft 429.88 428.72 424.90 424.90 423.60 428.45 422.58 425.69 Hg, diss, mg/L <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.00002 <0.00002 <0.00002 <0.000	F, diss, mg/L	0.36	0.26	0.35	0.52	0.46	0.41	0.49	0.55
GW Elv, ft 429.88 428.72 424.90 424.90 423.60 428.45 422.58 425.69 Hg, diss, mg/L	Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Hg, diss, mg/L <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.00002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0002 <0.0007 <0.0007 <0.0007 <0.0007 <0.0007 <0.0007 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00070 <0.00050 <0.0050 <0.0050 <0.0050 <0.0050 <	Fe, tot, mg/L	0.1270	0.9960	0.1220	0.1510	0.1930	< 0.0400	0.5890	0.2920
Hg, tot, mg/L	GW Elv, ft	429.88	428.72	424.90	424.90	423.60	428.45	422.58	425.69
Mn, diss, mg/L Ni, diss, mg/L O.0050 No, tot, mg/L O.0050 No, diss, mg/L O.0050	Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, tot, mg/L 0.0136 0.0413 0.0157 0.0164 0.0242 <0.0070 0.0542 0.0288 Ni, diss, mg/L <0.0050	Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Ni, diss, mg/L <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0050 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010	Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mn, tot, mg/L	0.0136	0.0413	0.0157	0.0164	0.0242	< 0.0070	0.0542	0.0288
NO2, diss, mg/L <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0010 <0.0010 <td>Ni, diss, mg/L</td> <td>< 0.0050</td>	Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NO3, diss, mg/L 2.740 3.860 2.690 1.910 2.250 2.610 2.700 2.560 Pb, diss, mg/L <0.0010	Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Pb, diss, mg/L <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010	NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pb, tot, mg/L <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010	NO3, diss, mg/L	2.740	3.860	2.690	1.910	2.250	2.610	2.700	2.560
pH (field), STD 6.84 7.08 6.97 7.19 7.17 6.63 7.24 7.12 Sb, diss, mg/L <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 Sb, tot, mg/L <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <	Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, diss, mg/L <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010	Pb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010 <0.0010	pH (field), STD	6.84	7.08	6.97	7.19	7.17	6.63	7.24	7.12
Se, diss, mg/L <0.0400 <0.0400 <0.0400 <0.0400 <0.0400 <0.0400 <0.0400 <0.0400	Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	< 0.0010
	Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0012	< 0.0010
Se, tot, mg/L <0.0400 <0.0400 <0.0400 <0.0400 <0.0400 <0.0400 <0.0400 <0.0400	Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
	Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/9/2023
SO4, diss, mg/L	350	489	471	300	315	434	296	254
Spec. Cond. (field), micromho	1370	1040	1210	1070	929	1430	923	799
TDS, mg/L	782	1040	986	634	678	808	682	624
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/9/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	0.0012	0.0016	0.0016	0.0019	0.0023	0.0023	0.0016	0.0016
As, tot, mg/L	0.0022	0.0025	0.0059	0.0022	0.0022	0.0030	0.0021	0.0023
B, diss, mg/L	2.1200	2.3000	2.1100	2.5100	2.2900	1.6700	1.6800	1.9400
B, tot, mg/L	2.2900	2.3900	2.3700	2.9500	2.2800	1.6700	1.6700	2.0400
Ba, diss, mg/L	0.0222	0.0219	0.0231	0.0188	0.0217	0.0186	0.0179	0.0186
Ba, tot, mg/L	0.0265	0.0277	0.0345	0.0226	0.0241	0.0220	0.0180	0.0209
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	6.0	5.0	4.0	<4.0	3.0	<4.0	<4.0	<4.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	0.0082	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	0.0060	< 0.0050	0.0052	< 0.0050	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	0.0084	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	0.9240	1.2200	3.9700	0.1930	0.3000	0.8520	0.0895	0.5320
GW Elv, ft	430.40	431.48	427.96	425.50	425.63	429.12	424.75	424.32
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
Mn, tot, mg/L	0.0701	0.1420	0.2880	0.0146	0.0436	0.0648	0.0148	0.0462
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	0.0057	0.0122	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	2.390	3.070	3.190	2.400	2.280	2.550	2.140	2.470
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	0.0012	0.0019	0.0056	< 0.0010	0.0011	0.0015	< 0.0010	< 0.0010
pH (field), STD	7.39	7.54	7.47	7.39	7.46	7.51	7.37	7.61
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/9/2023
SO4, diss, mg/L	126	117	116	117	112	97	81	92
Spec. Cond. (field), micromho	809	515	588	714	596	661	529	497
TDS, mg/L	386	382	408	374	382	318	320	336
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	0.0137	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
As, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0010	< 0.0010	< 0.0010	< 0.0010
B, diss, mg/L	2.0000	2.4800	3.1400	4.1100	4.1200	3.7500	1.8200	2.0700
B, tot, mg/L	2.0700	2.6200	3.1700	4.8900	4.0000	3.4500	1.7600	2.1900
Ba, diss, mg/L	0.0198	0.0140	0.0175	0.0169	0.0175	0.0170	0.0104	0.0125
Ba, tot, mg/L	0.0218	0.0171	0.0194	0.0205	0.0196	0.0184	0.0103	0.0139
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	5.0	4.0	2.0	6.0	6.0	4.0	<4.0	<4.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0052	< 0.0050	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
F, diss, mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	0.4520	0.8650	0.2330	0.2370	0.3150	0.2910	< 0.0400	0.3910
GW Elv, ft	430.85	433.03	444.38	426.94	426.70	429.48	426.07	425.44
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070
Mn, tot, mg/L	0.0263	0.0964	0.0308	0.0185	0.0169	0.0194	< 0.0070	0.0381
Ni, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Ni, tot, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	2.760	2.940	0.656	5.020	4.750	5.470	3.960	5.320
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
pH (field), STD	7.40	7.34	7.21	7.43	7.42	7.47	7.07	7.46
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/22/2022	8/18/2022	12/21/2022	2/2/2023	4/25/2023	9/22/2023	11/8/2023
SO4, diss, mg/L	139	98	80	202	197	151	50	88
Spec. Cond. (field), micromho	852	503	596	1080	812	880	525	565
TDS, mg/L	416	354	424	578	542	224	318	364
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/3/2023	4/25/2023	9/20/2023	11/8/2023
Ag, diss, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
As, tot, mg/L	0.0011	0.0037	0.0105	< 0.0010	0.0014	0.0025	0.0025	0.0011
B, diss, mg/L	0.0993	0.0791	0.0881	0.1600	0.1530	0.1110	0.1710	0.1540
B, tot, mg/L	0.1220	0.0816	0.1040	0.1690	0.1650	0.1010	0.1990	0.1660
Ba, diss, mg/L	0.1380	0.0975	0.1120	0.1140	0.1180	0.1680	0.1310	0.1150
Ba, tot, mg/L	0.1690	0.1430	0.1830	0.1370	0.1170	0.1820	0.1880	0.1360
Be, diss, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Cl, diss, mg/L	40.0	48.0	47.0	40.0	38.0	46.0	34.0	41.0
Co, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Co, tot, mg/L	0.0106	0.0118	0.0157	0.0068	0.0077	0.0068	0.0162	0.0110
Cr, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cr, tot, mg/L	< 0.0050	< 0.0050	0.0079	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	0.0064	0.0148	< 0.0050	0.0050	< 0.0050	0.0053	< 0.0050
F, diss, mg/L	0.29	0.34	0.32	0.34	0.33	0.27	0.31	0.33
Fe, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Fe, tot, mg/L	0.5740	4.4500	10.9000	0.6220	1.0400	1.5900	2.8200	0.8080
GW Elv, ft	429.99	428.61	425.02	424.61	423.93	427.75	422.88	423.89
Hg, diss, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Mn, diss, mg/L	1.0100	1.0200	1.4300	1.3400	1.3800	0.9040	1.6600	1.5700
Mn, tot, mg/L	4.2600	2.2300	2.6300	2.5000	3.9700	3.0800	4.3600	2.8900
Ni, diss, mg/L	0.0065	0.0065	0.0068	0.0081	0.0099	0.0065	0.0109	0.0071
Ni, tot, mg/L	0.0127	0.0152	0.0278	0.0124	0.0155	0.0128	0.0222	0.0106
NO2, diss, mg/L	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
NO3, diss, mg/L	2.320	0.238	0.368	0.215	0.134	3.730	4.100	0.325
Pb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Pb, tot, mg/L	< 0.0010	0.0038	0.0109	< 0.0010	0.0019	0.0020	0.0023	< 0.0010
pH (field), STD	6.72	7.01	7.01	6.91	6.95	6.41	6.78	6.92
Sb, diss, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Se, diss, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400
Se, tot, mg/L	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022	8/17/2022	12/21/2022	2/3/2023	4/25/2023	9/20/2023	11/8/2023
SO4, diss, mg/L	41	26	36	46	48	60	43	42
Spec. Cond. (field), micromho	876	466	678	881	752	1060	885	780
TDS, mg/L	372	340	414	420	448	520	524	440
Tl, diss, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100	0.0186	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	0.0157	0.0343	< 0.0100	< 0.0100	0.0112	0.0106	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022
Ag, diss, mg/L	< 0.007	< 0.007
Ag, tot, mg/L	< 0.007	< 0.007
As, diss, mg/L	< 0.0010	< 0.0010
As, tot, mg/L	0.0012	< 0.0010
B, diss, mg/L	7.1300	5.2700
B, tot, mg/L	7.4600	5.5200
Ba, diss, mg/L	0.0553	0.0405
Ba, tot, mg/L	0.0599	0.0438
Be, diss, mg/L	< 0.0005	< 0.0005
Be, tot, mg/L	< 0.0005	< 0.0005
Cd, diss, mg/L	< 0.0020	< 0.0020
Cl, diss, mg/L	20.0	6.0
Co, diss, mg/L	< 0.0050	< 0.0050
Co, tot, mg/L	< 0.0050	< 0.0050
Cr, diss, mg/L	0.0083	< 0.0050
Cr, tot, mg/L	0.0143	< 0.0050
Cu, diss, mg/L	< 0.0050	< 0.0050
Cu, tot, mg/L	< 0.0050	< 0.0050
F, diss, mg/L	< 0.10	< 0.10
Fe, diss, mg/L	< 0.0400	< 0.0400
Fe, tot, mg/L	1.0600	0.6030
GW Elv, ft	430.15	431.35
Hg, diss, mg/L	< 0.0002	< 0.0002
Hg, tot, mg/L	< 0.0002	< 0.0002
Mn, diss, mg/L	< 0.0070	< 0.0070
Mn, tot, mg/L	0.0683	0.0266
Ni, diss, mg/L	< 0.0050	< 0.0050
Ni, tot, mg/L	0.0056	< 0.0050
NO2, diss, mg/L	< 0.05	< 0.05
NO3, diss, mg/L	4.620	3.040
Pb, diss, mg/L	< 0.0010	< 0.0010
Pb, tot, mg/L	0.0011	< 0.0010
pH (field), STD	7.03	7.06
Sb, diss, mg/L	< 0.0010	< 0.0010
Sb, tot, mg/L	< 0.0010	< 0.0010
Se, diss, mg/L	0.0873	< 0.0400
Se, tot, mg/L	0.0892	< 0.0400

Date Range: 01/01/2022 to 12/31/2023

	3/17/2022	6/21/2022
SO4, diss, mg/L	205	193
Spec. Cond. (field), micromho	1120	710
TDS, mg/L	572	624
Tl, diss, mg/L	< 0.0020	< 0.0020
Tl, tot, mg/L	< 0.0020	< 0.0020
V, diss, mg/L	< 0.0100	< 0.0100
V, tot, mg/L	< 0.0100	< 0.0100
Zn, diss, mg/L	< 0.0100	< 0.0100
Zn, tot, mg/L	< 0.0100	< 0.0100

Date Range: 01/01/2022 to 12/31/2023

	6/21/2022
GW Elv, ft	431.57

APPENDIX B STATISTICAL OUTPUT

APPENDIX B1 TEST DESCRIPTIONS



MANAGES

Groundwater Data Management and Evaluation Software

Software Manual Product ID #1012581

Software Manual, February 2010

EPRI Project Manager K. Ladwig

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10 STATISTICAL ANALYSIS

Stand-Alone Statistical Tests

Statistical Evaluation Report

The Statistical Evaluation Report is comprised of a series of subreports as described below.

User Selections:

- One location.
- Sample date range for data selection.
- Interval length: the length of the averaging period in months (1,2,3,4, or 6).
- One parameter.
- Non-detect processing: multiplier between 0 and 1.
- One-sided confidence $(1-\alpha)$ level -0.90, 0.95 or 0.99.
- Limit type: used in the statistical overview to determine exceedances.

Mann-Kendall Trend and Seasonal Analysis Tests

The Mann-Kendall test for trend is insensitive to the presence or absence of seasonality. The test is non-parametric and does not assume any type of data distribution. Nonetheless, two forms of the test are provided in MANAGES, one ignoring data seasonality even if it is present, and one considering data seasonality. In the test, the null hypothesis, H_0 , is that the Sen trend is zero, and the alternate hypothesis, H_a , is that the trend is non-zero.

In general, the Mann-Kendall test considering seasonality indicates a larger range for allowable Sen estimate of trend when seasonality is actually present than the range indicated by the test performed ignoring seasonality.

In the Mann-Kendall Trend Analysis, available in under the Statistical Evaluation Report and in the Statistical Procedure for Detection Monitoring, and Mann-Kendall Seasonal Analysis, found under the Statistical Evaluation Report, MANAGES first calculates the Sen slope and the upper and lower confidence limits of the Sen slope, and then determines whether the Sen slope is statistically significant. Slope is statistically significant if it is non-zero.

Mann-Kendall Test for Sen Slope Significance – a two-sided, non-parametric method for data sets as small as 10, unless there are many tied (e.g., equal, NDs are treated as tieds) values (Gilbert, 1987; p. 208)

Indicator Function	$= 1 \text{ if } (x_{ij} - x_{jk}) > 0$
$\operatorname{sgn}(x_{ij}-x_{jk})$	$= 0 \text{ if } (x_{ij} - x_{jk}) = 0$
	$=-1 \text{ if } (x_{ij}-x_{jk})<0$
	where $x_{i1}, x_{i2},, x_{in}$ are the time ordered data (n_i is total of data in the ith season).
Mann-Kendall Statistic, S_i	$= \sum_{k=1}^{n_i-1} \sum_{j=k+1}^{n_i} \operatorname{sgn}(x_{ij} - x_{jk})$
Variance of S_i $VAR(S_i)$	$VAR(S_i) =$
	$\frac{1}{18} \left\{ n_i (n_i - 1)(2n_i + 5) - \sum_{p=1}^{g_i} t_{ip} (t_{ip} - 1)(2t_{ip} + 5) - \sum_{q=1}^{h_i} u_{iq} (u_{iq} - 1)(2u_{iq} + 5) \right\}$
	$+\frac{\sum_{p=1}^{g_i} t_{ip}(t_{ip}-1)(t_{ip}-2) \sum_{q=1}^{h_i} u_{iq}(u_{iq}-1)(u_{iq}-2)}{9n_i(n_i-1)(n_i-2)}$
	$+\frac{\sum_{p=1}^{g_i} t_{ip}(t_{ip}-1) \sum_{q=1}^{h_i} u_{iq}(u_{iq}-1)}{2n_i(n_i-1)}.$
	The variable g_i is the number of tied groups (equal-valued) data in the
	i-th season, t_{ip} is the number of tied data in the p-th group for the i-th
	season, h_i is the number of sampling times (or time periods) in the i-th season that contain multiple data, u_{iq} is the number of multiple data in
	the q-th time period in the i-th season, and n_i is the number of data values in the i-th season.

Test Statistic,	If $S' = \sum_{i=1}^{K} S_i$, where K is the number of seasons, then the test statistic	
Z	Z is computed as:	
	$Z = \begin{cases} \frac{S'-1}{[VAR(S')]^{1/2}} & \text{iff } S' > 0 \\ 0 & \text{iff } S' = 0 \end{cases}$ $\frac{S'+1}{[VAR(S')]^{1/2}} & \text{iff } S' < 0$	
	$Z = \begin{cases} 0 & \text{iff } S' = 0 \end{cases}$	
	$\frac{S'+1}{[VAR(S')]^{1/2}} iff \ S' < 0$	
	Where "iff" is an acroym meaning: if-and-only-if. A positive Z value means an upward trend and a negative Z value means a negative trend.	
Hypothesis Test:	Accept the null hypothesis H_0 of no trend	
H_0 = no trend	if $Z \le Z_{1-\alpha/2}$	
H_a = trend present	Reject the null hypothesis H_0	
This is a two-sided test at the α significance level.	if $Z > Z_{1-\alpha/2}$	
	where $Z_{1-\alpha/2}$ is obtained from Table A1 in Gilbert (1987; p. 254).	

Kruskal-Wallis Analysis (Test for Seasonality)

To perform the Kruskal-Wallis test for data seasonality, data points are first segmented according to season (Gilbert, 1987). The null hypothesis, H_0 , is that all seasons have the same mean value. The alternative hypothesis, H_a , is that at least one season has a mean larger or smaller than the mean of at least one other season. Montgomery et al. (1987) provide additional information on groundwater data seasonality. This is a two-sided, non-parametric test.

In MANAGES, the Kruskal-Wallis Test for Seasonality is found under Data Review // Non-Parametric Methods // Kruskal-Wallis Analysis. It determines whether the seasonal means for the specified parameter at the specified location are statistically the same.

	or $Z_i \ge SCL$.
--	--------------------

Outlier Tests

Outlier tests are useful in detecting inconsistencies of measurement within a data set. An outlier is defined as an observation that appears to deviate markedly from other values of a sample set. There are many possible reasons for the presence of an outlier, including 1) the presence of a true but extreme value from a single population, resulting from random variability inherent in the data; 2) an improper identification of the underlying distribution describing the population from which the sample set comes from; 3) the occurrence of some unknown event(s) such as a spill, creating a mixture of two or more populations; 4) a gross deviation from prescribed sampling procedures or laboratory analysis; 5) a transcription error in the data value or data unit of measurement.

USEPA (1989; p. 8-11) states that the purpose of a test for outliers is to determine whether or not there is statistical evidence that an observation that appears extreme does not fit the distribution of the rest of the data. If an observation is identified as an outlier, then steps need to be taken to determine whether it is the result of an error or a valid extreme observation. If a true error, such as in transcription, dilution, or analytical procedure, can be identified, then the suspect value should be replaced with its corrected value. If the source of the error can be determined but no correction is possible, then the observation is deleted and the reason for deletion is reported along with any statistical analysis. If no source of error can be documented, then it must be assumed that the observation is a true but extreme value of the data set. If this is the case, the outlier observation(s) must not be altered or excluded from any statistical analysis. Identification of an observation as an outlier but with no error documented could be used to suggest resampling to confirm the value (USEPA, 1989; p. 8-13).

The outlier tests provided in MANAGES are based on either the single outlier test of Grubbs (1969), which is used by USEPA (1989; pp. 8-10 to 8-13) or the single outlier test of Dixon (1951, 1953), which is used by USEPA (2000; pp. 4-24) and by ASTM (1998). The outlier tests assume the data come from a normal distribution. Only one outlier, either an extreme low or an extreme high, can be detected during a single analysis of a data set. Additional outliers can be detected by temporarily removing a previously detected outlier from a data set and then repeating the test on the remaining, reduced, data set. During each pass of the outlier test, the sample mean, standard deviation, and sample size used in the test statistics are computed using only the data remaining in the set. The process can be continued until there is either an insufficient amount of data remaining (a minimum of 3 values) or when no additional outliers are found. When using MANAGES, the user will be asked how many outliers are to be checked and it will then automatically perform all of the recursive calls and data reductions with the Grubbs or Dixon routine. When done, a report can be generated that will show each outlier marked with a flag indicating the sequential order in which the outliers were identified.

Critical values used in the one-sided Grubbs test are taken directly from those in Grubbs and Beck (1972) for sample sizes smaller than 147 observations. Critical values for sample sizes larger than 147 were generated numerically using a Monte Carlo routine, where each sampling event was simulated 100,000 times. Sample sizes ranging from 148 to 5,000 where used and then their resultant test statistic T_n curve fitted at specific significance levels. By this method, it was possible to match Grubbs results to at least four significant digits for corresponding tabulated values.

Critical values used in the one-sided Dixon outlier test are taken directly from tables given in Dixon (1951), Dixon (1953; page 89), and USEPA (2000; p. A-5, Table A-3). The critical values were then curve fitted for every sample size between 3 and 25 as a function of the significance level. By this method, it was possible to match Dixon's results to at least four significant digits for corresponding tabulated values. Note that the Dixon test assumes the data are either normally or lognormally distributed. Hence, sample sizes can only range between 3 and 25, inclusive. Dixon never developed an outlier test for sample sizes larger than 25.

User Selections:

- One or up to 100 locations: a separate test is performed for each location.
- One or up to 100 parameters: a separate test is performed for each parameter.
- Evaluation date range.
- Confidence $(1-\alpha)$ level: 0.90, 0.95 or 0.99.
- Non-detect processing: multiplier between 0 and 1.
- Data transformation option: none and log (base e).
- Number of outliers: one, two, first 5%, first 10%. Selecting any option other than one causes MANAGES to rerun the test, with outliers from prior tests removed, until either no outliers are detected or the specified number of outliers are detected.

Technical Details

Grubbs Outlier Test – The Grubbs outlier test determines whether there is statistical evidence that an observation does not fit the remaining data (USEPA, 1989; p. 8-11). This significance test looks at either the highest or the lowest observation in normal samples.		
The number of observations taken during a specified scoping period; n		

Mean of the observed data during the scoping period; \overline{X}	$X = \frac{1}{n} \sum_{i=1}^{n} X_i$
	where X_i is the i-th observation.
Standard deviation of observed data; S_x .	$S_{x} = \sum_{i=1}^{n} (X_{i} - \overline{X})^{2}$
Test statistics: T_l & T_n	Sort the data into ascending order, then compute the statistics
	$T_{l} = (\overline{X} - X_{l}) S_{x}$ $T_{n} = (X_{n} - \overline{X}) S_{x}$
	where X_l is the smallest value of the n observations and X_n is the largest value of the n observations.
One-sided test with a $(1-\alpha)$ confidence level that there is a single extreme outlier	Grubbs single, one-sided test of either an extreme low outlier:
within the n observations.	X_l is an outlier if $T_l \ge T_{cr(1-\alpha,n)}$
	or an extreme high outlier:
	X_n is an outlier if $T_n \ge T_{cr(1-\alpha,n)}$.
	The function $T_{cr(1-\alpha,n)}$ is the critical value,
	given in Grubbs and Beck (1972; Table 1) and USEPA (1989; p. B-11, Table 8). Note that the critical value assumes that the mean and standard deviation are computed from the sample being tested.

Dixon Outlier Test – The Dixon outlier test determines whether there is statistical evidence that an extreme observation does not fit the remaining data (USEPA, 2000; p. 4-24 and ASTM D6312, 1998). This significance test looks at both the highest and the

lowest observations in a sample data set. However, the routine will only perform the outlier tests if several conditions are first satisfied. For example, the Dixon outlier algorithm checks the distribution of the sample data for both normality and lognormality using the Shapiro-Wilk W-test. The outlier routine will not proceed with a data set if the W-test fails. In addition, the Dixon outlier test is limited to a minimum of 3 and a maximum sample size n of 25 data values.

	T
The number of observations taken during a specified scoping period; n	Number of observations, n , where $3 \le n \le 25$.
Sorting the sample data	Sort the data into ascending order, with the minimum data value $X_{(1)}$ first and the maximum data value $X_{(n)}$ last. Use the natural log of the data values if data are lognormally distributed, i.e., $X_{(j)} = Ln[X_{(j)}]$.
Goodness-of fit tests	After temporarily excluding either the minimum or maximum value of the data set, the Shapiro-Wilk's W-test is used to determine if the remaining $n-1$ values are normally or lognormally distributed. If not, the Dixon outlier test can't be used.
Test statistic, T_s , for the minimum data value	Compute the T_s test statistic for $X_{(1)}$ as an outlier: $T_s = \frac{X_{(2)} - X_{(1)}}{X_{(n)} - X_{(1)}} for 3 \le n \le 7$ $T_s = \frac{X_{(2)} - X_{(1)}}{X_{(n-1)} - X_{(1)}} for 8 \le n \le 10$ $T_s = \frac{X_{(3)} - X_{(1)}}{X_{(n-1)} - X_{(1)}} for 11 \le n \le 13$ $T_s = \frac{X_{(3)} - X_{(1)}}{X_{(n-2)} - X_{(1)}} for 14 \le n \le 25.$
Test statistic, T_s , for the maximum data value	Compute the T_s test statistic for $X_{(n)}$ as an outlier:

	$T_{s} = \frac{X_{(n)} - X_{(n-1)}}{X_{(n)} - X_{(1)}} for 3 \le n \le 7$ $T_{s} = \frac{X_{(n)} - X_{(n-1)}}{X_{(n)} - X_{(2)}} for 8 \le n \le 10$ $T_{s} = \frac{X_{(n)} - X_{(n-2)}}{X_{(n)} - X_{(2)}} for 11 \le n \le 13$ $T_{s} = \frac{X_{(n)} - X_{(n-2)}}{X_{(n)} - X_{(3)}} for 14 \le n \le 25.$
Critical value T _c	USEPA (2000; p. A-5, Table A-3) lists the critical values of the Dixon test as a function of sample size for a one-sided extreme value test at the significance levels α of 0.1, 0.05, and 0.01.
One-sided test with a $(1-\alpha)$ confidence level that there is a single extreme outlier within the n observations.	Dixon's single, one-sided test for statistical evidence of either an extreme low-valued outlier: $X_{(1)} \text{ is an outlier if } T_s \geq T_c$ or an extreme high-valued outlier: $X_{(n)} \text{ is an outlier if } T_s \geq T_c.$ The function T_c is the critical value, given in Dixon (1953; page 89) and USEPA (2000; p. A-5, Table A-3). Note that the critical value assumes that the data are either normally or lognormally distributed.

Other Statistical Calculations Used in MANAGES

Sen Estimate of Slope

The Sen estimate of slope is the median of all slopes between all possible unique pairs of individual data points in the time period being analyzed (Gilbert, 1987). The slopes represent the rate of change of the measured parameter, with the y-axis being the parameter value and the x-axis being calendar days. Sen's estimate of slope is a non-parametric estimator of trend. The method is robust, and fairly insensitive to the presence of a small fraction of outliers and non-detect data values. In contrast, linear regression and other least squares estimators of slope are significantly more sensitive, and more likely to give erroneous slope indications, even when only a few outlier values are present.

When data averaging is not activated, the Sen slope is calculated using individual data points and actual sampling dates. When data averaging is activated, multiple data points within each specified season period are reduced to one data point by arithmetic averaging over each of the season periods. These averaged values are then assigned to the day that corresponds to the middle of that season's period.

The approximate lower and upper confidence limits for the Sen slope can also be calculated using normal theory (Gilbert, 1987). It should be noted that confidence limits for the Sen slope are not necessarily symmetrical about the estimated slope since ranked values of slope are used in the calculation.

MANAGES calculates Sen slope in the Sen Slope Overlay Graph, Statistical Summary reports and in the two Mann-Kendall tests performed under the Statistical Evaluation Report.

Sen's Estimate of Slope – two-sided, non-parametric method that calculates the trend of a single data series. It is less sensitive to outliers and non-detect values than linear regression (Gilbert, 1987; p. 217).	
Slope, Q	where $X_{i'}$ and x_{i} are data values at times i' and i , respectively, and where $i' > i$. Typically, i' and i are expressed in units of either days for trend analysis or years for seasonal analysis.
N'	Number of unique data point pairs that can be made for the observations in the data set, for i '> i . For n monitoring events, N' is given as: $N' = n(n-1)/2$

Sen's Slope Estimate	Sen's slope estimator = median slope
	= $Q_{[(N'+1)/2]}$ if N' is odd = $\frac{1}{2}(Q_{[N'/2]} + Q_{[(N'+2)/2]})$ if N' is even
	where the Q values have first been ranked from smallest to largest.
$Z_{1-lpha/2}$	Statistic for the cumulative normal distribution (Gilbert, 1987; p. 254) for the two-sided, α significance level.
Variance estimate of the Mann-Kendall S Statistic, VAR(S)	VAR(S) $= \frac{1}{18} [n(n-1)(2n+5) - \sum_{p=1}^{g} t_p(t_p-1)(2t_p+5)]$
	where g is the number of tied groups, t_p is the number of data in the p th group, and n is the number of data values.
C_{α}	$=Z_{1-\alpha/2}VAR(S)$
Sen's Slope, a two-sided test at the α significance level	$M_1 = \frac{(N' - C_{\alpha})}{2}$ $M_2 = \frac{(N' + C_{\alpha})}{2}$
	Lower limit of confidence interval is the M_1 -th largest slope, and upper limit of confidence interval is the (M_2+1) -th largest of the N' ordered slope estimates.

Coefficient of Skewness for Normality

The coefficient of skewness is another measure for data normality (Gilbert, 1987). MANAGES provides the value of the coefficient of skewness in the Statistical Evaluation Report, Statistical Overview. Additional information on data normality is given by Montgomery, et al. (1987).

APPENDIX B2 OUTLIER TEST RESULTS

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Antimony, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

Outlier Outlier

 Sample Date
 Value
 LT Value
 Low Side
 High Side

 06/30/2021
 0.0010
 False
 1

Antimony, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Antimony, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Antimony, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Antimony, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0004

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0017

Test Statistic, high extreme of all data: Tn = 4.1514

T Critical of all data: Ter = 2.7730

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.0017 False 1

Antimony, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0011Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

09/20/2023 0.0011 False 1

Antimony, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Antimony, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0011Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Ter = 2.6810

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

09/22/2023 0.0011 False 1

Antimony, total, mg/L Location: APW-1

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Antimony, total, mg/L Location: APW-10

Mean of all data: 0.0006

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0018

Test Statistic, high extreme of all data: Tn = 3.7826

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.0018 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L Location: APW-11

Mean of all data: 0.0006

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0026

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/09/2019 0.0026 False 1

Antimony, total, mg/L Location: APW-12

Mean of all data: 0.0006

Standard Deviation of all data: 0.0005

Largest Observation Concentration of all data: Xn = 0.0029Test Statistic, high extreme of all data: Tn = 4.3644

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.0029 False 1

Antimony, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L Location: APW-2

Mean of all data: 0.0007

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: Xn = 0.0041

Test Statistic, high extreme of all data: Tn = 4.7743

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

06/30/2021 0.0041 False 1

Antimony, total, mg/L Location: APW-3

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Antimony, total, mg/L Location: APW-4

Mean of all data: 0.0005

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0013

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

12/13/2021 0.0013 False

7

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L Location: APW-5

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0012

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

06/30/2021 0.0012 False 1

Antimony, total, mg/L Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Antimony, total, mg/L Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Antimony, total, mg/L Location: APW-8

Mean of all data: 0.0007

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0057

Test Statistic, high extreme of all data: Tn = 4.9705

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

12/09/2019 0.0057 False 1

Antimony, total, mg/L Location: APW-9

Mean of all data: 0.0006

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0016

Test Statistic, high extreme of all data: Tn = 3.0887

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

06/30/2021 0.0016 False 1

Arsenic, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier Wild Gill

<u>Sample Date</u> <u>Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Arsenic, dissolved, mg/L

Location: APW-10 Mean of all data: 0.0016

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0023

Test Statistic, high extreme of all data: Tn = 2.3434

T Critical of all data: Tcr = 2.6030

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Arsenic, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005 Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Arsenic, dissolved, mg/L **Location: APW-12**

Mean of all data: 0.0006

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0016

Test Statistic, high extreme of all data: Tn = 4.3644

T Critical of all data: Tcr = 2.5800

Outlier Outlier Sample Date LT_Value Low Side High Side Value

12/13/2021 0.0016 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Arsenic, dissolved, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Arsenic, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0019

Standard Deviation of all data: 0.0014

Largest Observation Concentration of all data: Xn = 0.0044

Test Statistic, high extreme of all data: Tn = 1.8176

T Critical of all data: Tcr = 2.7860

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Arsenic, dissolved, mg/L

Location: APW-3

Mean of all data: 0.2066

Standard Deviation of all data: 0.0495

Largest Observation Concentration of all data: Xn = 0.3200

Test Statistic, high extreme of all data: Tn = 2.2889

T Critical of all data: Tcr = 2.7860

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Arsenic, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0244

Standard Deviation of all data: 0.0386

Largest Observation Concentration of all data: Xn = 0.1800

Test Statistic, high extreme of all data: Tn = 4.0295

T Critical of all data: Tcr = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

10/28/2011 0.1800 False 1

Arsenic, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0011

Test Statistic, high extreme of all data: Tn = 2.6931

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Arsenic, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Arsenic, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

06/28/2017 0.0010 False 1

Arsenic, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0014

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0022

Test Statistic, high extreme of all data: Tn = 3.1390

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

11/09/2023 0.0022 False 1

Arsenic, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0011

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0018

Test Statistic, high extreme of all data: Tn = 2.0491

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Volum IT Volum Law Side High Side

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L Location: APW-1

Mean of all data: 0.0016

Standard Deviation of all data: 0.0018

Largest Observation Concentration of all data: Xn = 0.0089

Test Statistic, high extreme of all data: Tn = 4.0793

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0089 False 1

Arsenic, total, mg/L Location: APW-10

Mean of all data: 0.0044

Standard Deviation of all data: 0.0072

Largest Observation Concentration of all data: Xn = 0.0364

Test Statistic, high extreme of all data: Tn = 4.4375

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.0364 False 1

Arsenic, total, mg/L Location: APW-11

Mean of all data: 0.0032

Standard Deviation of all data: 0.0077

Largest Observation Concentration of all data: Xn = 0.0371

Test Statistic, high extreme of all data: Tn = 4.3853

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/09/2019 0.0371 False

14

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L Location: APW-12

Mean of all data: 0.0041

Standard Deviation of all data: 0.0092

Largest Observation Concentration of all data: Xn = 0.0433

Test Statistic, high extreme of all data: Tn = 4.2450

T Critical of all data: Tcr = 2.5800

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

12/13/2021 0.0433 False 1

Arsenic, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0012

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Arsenic, total, mg/L Location: APW-2

Mean of all data: 0.0027

Standard Deviation of all data: 0.0015

Largest Observation Concentration of all data: Xn = 0.0067

Test Statistic, high extreme of all data: Tn = 2.6105

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Arsenic, total, mg/L **Location: APW-3**

Mean of all data: 0.2324

Standard Deviation of all data: 0.0530

Largest Observation Concentration of all data: Xn = 0.3580

Test Statistic, high extreme of all data: Tn = 2.3696

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Arsenic, total, mg/L **Location: APW-4**

Mean of all data: 0.0157

Standard Deviation of all data: 0.0107

Largest Observation Concentration of all data: Xn = 0.0598 Test Statistic, high extreme of all data: Tn = 4.1214

T Critical of all data: Tcr = 2.6810

Outlier Outlier LT_Value Sample Date Value Low Side High Side

12/13/2021 0.0598 False

Arsenic, total, mg/L **Location: APW-5**

Mean of all data: 0.0009

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: Xn = 0.0039

Test Statistic, high extreme of all data: Tn = 3.5920

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Sample Date Value LT Value Low Side High Side

03/21/2018 0.0039 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Arsenic, total, mg/L Location: APW-6

Mean of all data: 0.0009

Standard Deviation of all data: 0.0006

Largest Observation Concentration of all data: Xn = 0.0027

Test Statistic, high extreme of all data: Tn = 3.0437

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0027 False 1

Arsenic, total, mg/L Location: APW-7

Mean of all data: 0.0016

Standard Deviation of all data: 0.0043

Largest Observation Concentration of all data: Xn = 0.0225Test Statistic, high extreme of all data: Tn = 4.8730

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/19/2017 0.0225 False 1

Arsenic, total, mg/L Location: APW-8

Mean of all data: 0.0028

Standard Deviation of all data: 0.0055

Largest Observation Concentration of all data: Xn = 0.0301

Test Statistic, high extreme of all data: Tn = 4.9841

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/09/2019 0.0301 False

17

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Arsenic, total, mg/L **Location: APW-9**

Mean of all data: 0.0020

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: Xn = 0.0042

Test Statistic, high extreme of all data: Tn = 2.5780

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Barium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0127

Standard Deviation of all data: 0.0043

Largest Observation Concentration of all data: Xn = 0.0232

Test Statistic, high extreme of all data: Tn = 2.4584

T Critical of all data: Tcr = 2.8110

Outlier Outlier High Side

Sample Date Value LT Value Low Side

12/13/2010 < 0.0000 True -1

Barium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0191

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: Xn = 0.0231

Test Statistic, high extreme of all data: Tn = 1.7994

T Critical of all data: Tcr = 2.6030

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Barium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0155

Standard Deviation of all data: 0.0041

Largest Observation Concentration of all data: Xn = 0.0284

Test Statistic, high extreme of all data: Tn = 3.1248

T Critical of all data: Tcr = 2.6030

Outlier Outlier

Sample Date Value LT Value Low Side High Side

False 01/26/2021 0.02841

Barium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.1316

Standard Deviation of all data: 0.0336

Largest Observation Concentration of all data: Xn = 0.2460

Test Statistic, high extreme of all data: Tn = 3.4084

T Critical of all data: Tcr = 2.5800

Outlier Outlier LT Value Low Side

Sample Date High Side Value

01/29/2019 0.2460 False

Barium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0553

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier

Sample Date LT Value High Side Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Barium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0494

Standard Deviation of all data: 0.0136

Largest Observation Concentration of all data: Xn = 0.0718

Test Statistic, high extreme of all data: Tn = 1.6394

T Critical of all data: Tcr = 2.7860

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

12/13/2010 <0.0000 True -1

Barium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0759

Standard Deviation of all data: 0.0297

Largest Observation Concentration of all data: Xn = 0.1550

Test Statistic, high extreme of all data: Tn = 2.6669

T Critical of all data: Tcr = 2.7860

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Barium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0473

Standard Deviation of all data: 0.0183

Largest Observation Concentration of all data: Xn = 0.0950

Test Statistic, high extreme of all data: Tn = 2.6090

T Critical of all data: Tcr = 2.7730

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Barium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0079

Standard Deviation of all data: 0.0020

Largest Observation Concentration of all data: Xn = 0.0108

Test Statistic, high extreme of all data: Tn = 1.4891

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/13/2010 <0.0000 True -1

Barium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0137

Standard Deviation of all data: 0.0030

Largest Observation Concentration of all data: Xn = 0.0198

Test Statistic, high extreme of all data: Tn = 2.0676

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Barium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0292

Standard Deviation of all data: 0.0070

Largest Observation Concentration of all data: Xn = 0.0445

Test Statistic, high extreme of all data: Tn = 2.1849

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

21

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Barium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0627

Standard Deviation of all data: 0.0085

Largest Observation Concentration of all data: Xn = 0.0754

Test Statistic, high extreme of all data: Tn = 1.4918

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Barium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0236

Standard Deviation of all data: 0.0094

Largest Observation Concentration of all data: Xn = 0.0490

Test Statistic, high extreme of all data: Tn = 2.7001

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Second Date

Value LT Value Law Side Live Side

Usel Side

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

07/29/2020 0.0490 False

Barium, total, mg/L Location: APW-1

Mean of all data: 0.0215

Standard Deviation of all data: 0.0104

Largest Observation Concentration of all data: Xn = 0.0650

Test Statistic, high extreme of all data: Tn = 4.1750

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Value LT Value Law Side Use Side

<u>Sample Date</u> <u>Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.0650 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L Location: APW-10

Mean of all data: 0.0294

Standard Deviation of all data: 0.0257

Largest Observation Concentration of all data: Xn = 0.1430

Test Statistic, high extreme of all data: Tn = 4.4235

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.1430 False 1

Barium, total, mg/L Location: APW-11

Mean of all data: 0.0235

Standard Deviation of all data: 0.0177

Largest Observation Concentration of all data: Xn = 0.0970Test Statistic, high extreme of all data: Tn = 4.1496

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 12/09/2019
 0.0970
 False
 1

Barium, total, mg/L Location: APW-12

Mean of all data: 0.1691

Standard Deviation of all data: 0.0725

Largest Observation Concentration of all data: Xn = 0.4390

Test Statistic, high extreme of all data: Tn = 3.7223

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT Value
 Low Side
 High Side

 12/13/2021
 0.4390
 False
 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0599

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Barium, total, mg/L Location: APW-2

Mean of all data: 0.0722

Standard Deviation of all data: 0.0274

Largest Observation Concentration of all data: Xn = 0.1650

Test Statistic, high extreme of all data: Tn = 3.3933

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.1650 False

Barium, total, mg/L Location: APW-3

Mean of all data: 0.1100

Standard Deviation of all data: 0.0276

Largest Observation Concentration of all data: Xn = 0.1670

Test Statistic, high extreme of all data: Tn = 2.0650

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L Location: APW-4

Mean of all data: 0.0694

Standard Deviation of all data: 0.0485

Largest Observation Concentration of all data: Xn = 0.2860

Test Statistic, high extreme of all data: Tn = 4.4674

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.2860 False 1

Barium, total, mg/L Location: APW-5

Mean of all data: 0.0109

Standard Deviation of all data: 0.0046

Largest Observation Concentration of all data: Xn = 0.0304

Test Statistic, high extreme of all data: Tn = 4.2020

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0304 False 1

Barium, total, mg/L Location: APW-6

Mean of all data: 0.0162

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: Xn = 0.0270

Test Statistic, high extreme of all data: Tn = 2.5910

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Barium, total, mg/L Location: APW-7

Mean of all data: 0.0389

Standard Deviation of all data: 0.0260

Largest Observation Concentration of all data: Xn = 0.1600

Test Statistic, high extreme of all data: Tn = 4.6584

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

09/19/2017 0.1600 False 1

Barium, total, mg/L Location: APW-8

Mean of all data: 0.0731

Standard Deviation of all data: 0.0250

Largest Observation Concentration of all data: Xn = 0.1850

Test Statistic, high extreme of all data: Tn = 4.4831

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/09/2019 0.1850 False 1

Barium, total, mg/L Location: APW-9

Mean of all data: 0.0309

Standard Deviation of all data: 0.0128

Largest Observation Concentration of all data: Xn = 0.0606

Test Statistic, high extreme of all data: Tn = 2.3202

T Critical of all data: Ter = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Beryllium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0002

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Beryllium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

No Outliers

Beryllium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Beryllium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Beryllium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003 Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

No Outliers

Beryllium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0002

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier

High Side Sample Date LT_Value Low Side Value

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0004

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: Xn = 0.0042

Test Statistic, high extreme of all data: Tn = 5.3828

T Critical of all data: Tcr = 2.7860

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.0042 False 1

Beryllium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0003

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0018

Test Statistic, high extreme of all data: Tn = 4.1005

T Critical of all data: Tcr = 2.7730

 Sample Date
 Value
 LT Value
 Low Side
 High Side

Sample Date Value LT_Value Low Side High Side

10/38/2011 0.0018 February 1

10/28/2011 0.0018 False 1

Beryllium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0002

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

Sample Date Value LT Value Low Side High Side

1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Beryllium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Beryllium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0003

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0017

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0017 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Beryllium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Beryllium, total, mg/L Location: APW-1

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0006

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

03/21/2018 0.0006 False 1

Beryllium, total, mg/L Location: APW-10

Mean of all data: 0.0003

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0013

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

Outlier Outlier

Value LT Value Law Side High Side

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

11/11/2021 0.0013 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Beryllium, total, mg/L Location: APW-11

Mean of all data: 0.0003

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0014

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/09/2019 0.0014 False 1

Beryllium, total, mg/L Location: APW-12

Mean of all data: 0.0003

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0018Test Statistic, high extreme of all data: Tn = 4.3644

T Critical of all data: Ter = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.0018 False 1

Beryllium, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Beryllium, total, mg/L **Location: APW-2**

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0006

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier Value LT Value Low Side High Side

Sample Date

03/21/2018 False 0.00061

Beryllium, total, mg/L **Location: APW-3**

Mean of all data: 0.0004

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: Xn = 0.0049

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier Sample Date LT Value Low Side High Side Value

03/21/2018 0.0049 False

Beryllium, total, mg/L Location: APW-4

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier Sample Date LT Value High Side Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Beryllium, total, mg/L **Location: APW-5**

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Beryllium, total, mg/L **Location: APW-6**

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0006

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

Outlier Outlier LT_Value High Side Sample Date Value Low Side

03/21/2018 0.0006False

Beryllium, total, mg/L **Location: APW-7**

Mean of all data: 0.0003

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0009

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier Sample Date LT Value Low Side High Side

Value

09/19/2017 0.0009 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Beryllium, total, mg/L Location: APW-8

Mean of all data: 0.0003

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0019

Test Statistic, high extreme of all data: Tn = 4.6463

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.0019 False 1

Beryllium, total, mg/L

Location: APW-9

Mean of all data: 0.0003

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0003

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

 $Boron,\,dissolved,\,mg/L$

Location: APW-1

Mean of all data: 0.0739

Standard Deviation of all data: 0.0255

Largest Observation Concentration of all data: Xn = 0.1400

Test Statistic, high extreme of all data: Tn = 2.5951

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Boron, dissolved, mg/L **Location: APW-10**

Mean of all data: 1.5616

Standard Deviation of all data: 0.5864

Largest Observation Concentration of all data: Xn = 2.5100

Test Statistic, high extreme of all data: Tn = 1.6172

T Critical of all data: Tcr = 2.6030

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Boron, dissolved, mg/L

Location: APW-11

Mean of all data: 2.5225

Standard Deviation of all data: 1.4484

Largest Observation Concentration of all data: Xn = 6.8400 Test Statistic, high extreme of all data: Tn = 2.9809

T Critical of all data: Tcr = 2.6030

Outlier Outlier Sample Date Value LT_Value Low Side High Side

01/26/2021 6.8400 False

Boron, dissolved, mg/L **Location: APW-12**

Mean of all data: 0.1447

Standard Deviation of all data: 0.0531

Largest Observation Concentration of all data: Xn = 0.2410

Test Statistic, high extreme of all data: Tn = 1.8156

T Critical of all data: Tcr = 2.5800

Outlier Outlier Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Boron, dissolved, mg/L **Location: APW-13**

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 7.1300

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier Sample Date Value LT Value Low Side High Side

No Outliers

Boron, dissolved, mg/L

Location: APW-2

Mean of all data: 2.0249

Standard Deviation of all data: 0.8792

Largest Observation Concentration of all data: Xn = 3.9000 Test Statistic, high extreme of all data: Tn = 2.1327

T Critical of all data: Tcr = 2.7860

Outlier Outlier High Side Sample Date Value LT_Value Low Side

No Outliers

Boron, dissolved, mg/L **Location: APW-3**

Mean of all data: 20.1697

Standard Deviation of all data: 8.0601

Largest Observation Concentration of all data: Xn = 46.0000

Test Statistic, high extreme of all data: Tn = 3.2047

T Critical of all data: Tcr = 2.7860

Outlier Outlier Sample Date LT_Value Low Side High Side Value 06/18/2012 46.0000 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Boron, dissolved, mg/L

Location: APW-4

Mean of all data: 1.6988

Standard Deviation of all data: 1.4949

Largest Observation Concentration of all data: Xn = 6.3000

Test Statistic, high extreme of all data: Tn = 3.0779

T Critical of all data: Tcr = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

10/28/2011 6.3000 False 1

 $Boron,\,dissolved,\,mg/L$

Location: APW-5

Mean of all data: 0.1313

Standard Deviation of all data: 0.0906

Largest Observation Concentration of all data: Xn = 0.4100

Test Statistic, high extreme of all data: Tn = 3.0751

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

06/18/2012 0.4100 False 1

Boron, dissolved, mg/L

Location: APW-6

Mean of all data: 0.6345

Standard Deviation of all data: 0.4844

Largest Observation Concentration of all data: Xn = 1.8100

Test Statistic, high extreme of all data: Tn = 2.4266

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Boron, dissolved, mg/L

Location: APW-7

Mean of all data: 0.1473

Standard Deviation of all data: 0.0619

Largest Observation Concentration of all data: Xn = 0.3780

Test Statistic, high extreme of all data: Tn = 3.7245

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

11/27/2018 0.3780 False 1

Boron, dissolved, mg/L

Location: APW-8

Mean of all data: 6.9933

Standard Deviation of all data: 0.8900

Largest Observation Concentration of all data: Xn = 8.8800

Test Statistic, high extreme of all data: Tn = 2.1198

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Boron, dissolved, mg/L

Location: APW-9

Mean of all data: 1.0800

Standard Deviation of all data: 0.4414

Largest Observation Concentration of all data: Xn = 2.1100

Test Statistic, high extreme of all data: Tn = 2.3334

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L Location: APW-1

Mean of all data: 0.0683

Standard Deviation of all data: 0.0206

Largest Observation Concentration of all data: Xn = 0.1100Test Statistic, high extreme of all data: Tn = 2.0310

T Critical of all data: Tcr = 2.6980

Sample Date Outlier Outlier Outlier

Low Side High Side

09/22/2023 <0.0100 True -1

Boron, total, mg/L Location: APW-10

Mean of all data: 1.6706

Standard Deviation of all data: 0.6524

Largest Observation Concentration of all data: Xn = 2.9500Test Statistic, high extreme of all data: Tn = 1.9610

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Boron, total, mg/L Location: APW-11

Mean of all data: 2.6774

Standard Deviation of all data: 1.5567

Largest Observation Concentration of all data: Xn = 7.0400Test Statistic, high extreme of all data: Tn = 2.8025

T Critical of all data: Tcr = 2.6030

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User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L Location: APW-12

Mean of all data: 0.1543

Standard Deviation of all data: 0.0586

Largest Observation Concentration of all data: Xn = 0.2730

Test Statistic, high extreme of all data: Tn = 2.0249

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Boron, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 7.4600

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Boron, total, mg/L Location: APW-2

Mean of all data: 1.8147

Standard Deviation of all data: 0.6626

Largest Observation Concentration of all data: Xn = 2.9400

Test Statistic, high extreme of all data: Tn = 1.6983

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L Location: APW-3

Mean of all data: 18.1038

Standard Deviation of all data: 4.8570

Largest Observation Concentration of all data: Xn = 28.7000

Test Statistic, high extreme of all data: Tn = 2.1816

T Critical of all data: Tcr = 2.6810

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Boron, total, mg/L Location: APW-4

Mean of all data: 1.1320

Standard Deviation of all data: 0.4453

Largest Observation Concentration of all data: Xn = 2.1400

Test Statistic, high extreme of all data: Tn = 2.2636

T Critical of all data: Tcr = 2.6810

Outlier Outlier What State of the Control of the Co

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Boron, total, mg/L Location: APW-5

Mean of all data: 0.0987

Standard Deviation of all data: 0.0157

Largest Observation Concentration of all data: Xn = 0.1540Test Statistic, high extreme of all data: Tn = 3.5233

T Critical of all data: Ter = 2.6980

Outlier Outlier

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 09/20/2018
 0.1540
 False
 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L Location: APW-6

Mean of all data: 0.6751

Standard Deviation of all data: 0.5066

Largest Observation Concentration of all data: Xn = 1.9100

Test Statistic, high extreme of all data: Tn = 2.4377

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Boron, total, mg/L Location: APW-7

Mean of all data: 0.1556

Standard Deviation of all data: 0.0623

Largest Observation Concentration of all data: Xn = 0.3630

Test Statistic, high extreme of all data: Tn = 3.3294

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

11/27/2018 0.3630 False

Boron, total, mg/L Location: APW-8

Mean of all data: 7.4126

Standard Deviation of all data: 0.9502

Largest Observation Concentration of all data: Xn = 9.4000

Test Statistic, high extreme of all data: Tn = 2.0916

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Boron, total, mg/L Location: APW-9

Mean of all data: 1.1747

Standard Deviation of all data: 0.4930

Largest Observation Concentration of all data: Xn = 2.3000

Test Statistic, high extreme of all data: Tn = 2.2825

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cadmium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Cadmium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Based on Grubbs one-sided outlier test

MANAGES V 4.1.0 44

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Cadmium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Cadmium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

45

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cadmium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0010

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0019

Test Statistic, high extreme of all data: Tn = 2.7301

T Critical of all data: Tcr = 2.7860

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cadmium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4728

T Critical of all data: Tcr = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Cadmium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000 T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cadmium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Cadmium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Cadmium, total, mg/L Location: APW-1

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Cadmium, total, mg/L Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Cadmium, total, mg/L Location: APW-12

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Sample Date Outlier Outlier Supple Date Value LT Value Low Side High Side

No Outliers

Cadmium, total, mg/L Location: APW-2

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Cadmium, total, mg/L Location: APW-3

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L Location: APW-4

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Cadmium, total, mg/L Location: APW-5

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Cadmium, total, mg/L Location: APW-6

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cadmium, total, mg/L Location: APW-7

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier VI VI

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cadmium, total, mg/L Location: APW-8

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Cadmium, total, mg/L Location: APW-9

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-1

Mean of all data: 42.5

Standard Deviation of all data: 35.1

Largest Observation Concentration of all data: Xn = 159.0

Test Statistic, high extreme of all data: Tn = 3.3

T Critical of all data: Tcr = 2.8

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/22/2022 159.0 False 1

Chloride, dissolved, mg/L

Location: APW-10

Mean of all data: 3.4

Standard Deviation of all data: 1.7

Largest Observation Concentration of all data: Xn = 7.0

Test Statistic, high extreme of all data: Tn = 2.2

T Critical of all data: Tcr = 2.6

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chloride, dissolved, mg/L

Location: APW-11

Mean of all data: 3.8

Standard Deviation of all data: 2.2

Largest Observation Concentration of all data: Xn = 11.0

Test Statistic, high extreme of all data: Tn = 3.3

T Critical of all data: Tcr = 2.6

 Sample Date
 Value
 LT Value
 Low Side
 High Side

01/26/2021 11.0 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-12

Mean of all data: 43.5

Standard Deviation of all data: 12.4

Largest Observation Concentration of all data: Xn = 75.0

Test Statistic, high extreme of all data: Tn = 2.5

T Critical of all data: Tcr = 2.6

Outlier Outlier VI to Silver and Silver State of the Control of th

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chloride, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0

Standard Deviation of all data: 0.0

Largest Observation Concentration of all data: Xn = 20.0

Test Statistic, high extreme of all data: Tn = 0.0

T Critical of all data: Ter = 0.0

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chloride, dissolved, mg/L

Location: APW-2

Mean of all data: 21.0

Standard Deviation of all data: 15.4

Largest Observation Concentration of all data: Xn = 50.0

Test Statistic, high extreme of all data: Tn = 1.9

T Critical of all data: Tcr = 2.8

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-3

Mean of all data: 29.1

Standard Deviation of all data: 12.8

Largest Observation Concentration of all data: Xn = 58.0

Test Statistic, high extreme of all data: Tn = 2.3

T Critical of all data: Ter = 2.8

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chloride, dissolved, mg/L

Location: APW-4

Mean of all data: 35.3

Standard Deviation of all data: 11.8

Largest Observation Concentration of all data: Xn = 63.0

Test Statistic, high extreme of all data: Tn = 2.3

T Critical of all data: Tcr = 2.8

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chloride, dissolved, mg/L

Location: APW-5

Mean of all data: 5.9

Standard Deviation of all data: 4.9

Largest Observation Concentration of all data: Xn = 22.0

Test Statistic, high extreme of all data: Tn = 3.3

T Critical of all data: Tcr = 2.8

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/04/2019 22.0 False 1

55

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-6

Mean of all data: 6.2

Standard Deviation of all data: 6.4

Largest Observation Concentration of all data: Xn = 27.0

Test Statistic, high extreme of all data: Tn = 3.2

T Critical of all data: Ter = 2.7

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/30/2021 27.0 False 1

Chloride, dissolved, mg/L

Location: APW-7

Mean of all data: 35.4

Standard Deviation of all data: 11.6

Largest Observation Concentration of all data: Xn = 67.0

Test Statistic, high extreme of all data: Tn = 2.7

T Critical of all data: Tcr = 2.7

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 67.0 False 1

Chloride, dissolved, mg/L

Location: APW-8

Mean of all data: 10.2

Standard Deviation of all data: 3.5

Largest Observation Concentration of all data: Xn = 18.0

Test Statistic, high extreme of all data: Tn = 2.2

T Critical of all data: Ter = 2.7

 Sample Date
 Value
 LT Value
 Low Side
 High Side

Sample Date Value Livature Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chloride, dissolved, mg/L

Location: APW-9

Mean of all data: 14.6

Standard Deviation of all data: 13.0

Largest Observation Concentration of all data: Xn = 43.0

Test Statistic, high extreme of all data: Tn = 2.2

T Critical of all data: Ter = 2.7

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chromium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Chromium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

57

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chromium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chromium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0083

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chromium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Chromium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0022

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: Xn = 0.0069

Test Statistic, high extreme of all data: Tn = 3.7178

T Critical of all data: Tcr = 2.7730

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/15/2011 0.0069 False

59

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chromium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Chromium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chromium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0118

Standard Deviation of all data: 0.0060

Largest Observation Concentration of all data: Xn = 0.0320

Test Statistic, high extreme of all data: Tn = 3.3901

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/21/2022 0.0320 False 1

Chromium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Chromium, total, mg/L

Location: APW-1

Mean of all data: 0.0035

Standard Deviation of all data: 0.0033

Largest Observation Concentration of all data: Xn = 0.0173

Test Statistic, high extreme of all data: Tn = 4.1804

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 Sample Date
 Value
 E1_value
 Low side
 Ingit side

 02/02/2023
 0.0173
 False
 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Chromium, total, mg/L **Location: APW-10**

Mean of all data: 0.0050

Standard Deviation of all data: 0.0086

Largest Observation Concentration of all data: Xn = 0.0431

Test Statistic, high extreme of all data: Tn = 4.4176

T Critical of all data: Tcr = 2.6030

Outlier Outlier Sample Date Value LT Value Low Side High Side

False 11/11/2021 0.0431 1

Chromium, total, mg/L

Location: APW-11

Mean of all data: 0.0051

Standard Deviation of all data: 0.0093

Largest Observation Concentration of all data: Xn = 0.0465

Test Statistic, high extreme of all data: Tn = 4.4340

T Critical of all data: Tcr = 2.6030

Outlier Outlier Sample Date LT Value Low Side High Side Value

12/09/2019 0.0465 False

Chromium, total, mg/L **Location: APW-12**

Mean of all data: 0.0048

Standard Deviation of all data: 0.0093

Largest Observation Concentration of all data: Xn = 0.0450

Test Statistic, high extreme of all data: Tn = 4.3292

T Critical of all data: Tcr = 2.5800

Outlier Outlier

High Side Sample Date Value LT Value Low Side

12/13/2021 0.0450 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Chromium, total, mg/L **Location: APW-13**

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0143

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Chromium, total, mg/L

Location: APW-2

Mean of all data: 0.0027

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: Xn = 0.0083

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier LT_Value High Side Sample Date Value Low Side

09/22/2023 0.0083 False

Chromium, total, mg/L **Location: APW-3**

Mean of all data: 0.0033

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: Xn = 0.0115

Test Statistic, high extreme of all data: Tn = 3.6896

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date High Side Value LT Value Low Side

09/22/2023 0.0115 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chromium, total, mg/L

Location: APW-4

Mean of all data: 0.0033

Standard Deviation of all data: 0.0021

Largest Observation Concentration of all data: Xn = 0.0105

Test Statistic, high extreme of all data: Tn = 3.3602

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

12/21/2017 0.0105 False 1

Chromium, total, mg/L

Location: APW-5

Mean of all data: 0.0027

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: Xn = 0.0061

Test Statistic, high extreme of all data: Tn = 3.8489

T Critical of all data: Tcr = 2.6980

Outlier Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.0061 False 1

Chromium, total, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Chromium, total, mg/L

Location: APW-7

Mean of all data: 0.0033

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: Xn = 0.0241

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

09/19/2017 0.0241 False 1

Chromium, total, mg/L

Location: APW-8

Mean of all data: 0.0143

Standard Deviation of all data: 0.0091

Largest Observation Concentration of all data: Xn = 0.0438

Test Statistic, high extreme of all data: Tn = 3.2493

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/09/2019 0.0438 False 1

14150

Chromium, total, mg/L

Location: APW-9

Mean of all data: 0.0026

Standard Deviation of all data: 0.0005

Largest Observation Concentration of all data: Xn = 0.0053

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Ter = 2.6810

Outlier Outlier

Sample Date Value LT Value Low Side High Side

03/21/2018 0.0053 False

65

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L Location: APW-12

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0025

Standard Deviation of all data: 0.0005

Largest Observation Concentration of all data: Xn = 0.0035

Test Statistic, high extreme of all data: Tn = 1.8358

T Critical of all data: Tcr = 2.7860

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2010 <0.0000 True -1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier VIII Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.4728

T Critical of all data: Ter = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Cobalt, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0034

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: Xn = 0.0072

Test Statistic, high extreme of all data: Tn = 2.2549

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cobalt, total, mg/L Location: APW-1

Mean of all data: 0.0050

Standard Deviation of all data: 0.0069

Largest Observation Concentration of all data: Xn = 0.0352

Test Statistic, high extreme of all data: Tn = 4.3917

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

03/21/2018 0.0352 False 1

Cobalt, total, mg/L Location: APW-10

Mean of all data: 0.0084

Standard Deviation of all data: 0.0230

Largest Observation Concentration of all data: Xn = 0.1110

Test Statistic, high extreme of all data: Tn = 4.4544

T Critical of all data: Tcr = 2.6030

Outlier Outlier

Value LT Value Law Side High Side

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

11/11/2021 0.1110 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L Location: APW-11

Mean of all data: 0.0075

Standard Deviation of all data: 0.0178

Largest Observation Concentration of all data: Xn = 0.0860

Test Statistic, high extreme of all data: Tn = 4.4082

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/09/2019 0.0860 False 1

Cobalt, total, mg/L Location: APW-12

Mean of all data: 0.0094

Standard Deviation of all data: 0.0151

Largest Observation Concentration of all data: Xn = 0.0723Test Statistic, high extreme of all data: Tn = 4.1655

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.0723 False 1

Cobalt, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L Location: APW-2

Mean of all data: 0.0027

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0074

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

09/22/2023 0.0074 False 1

Cobalt, total, mg/L Location: APW-3

Mean of all data: 0.0027

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: Xn = 0.0073

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

09/22/2023 0.0073 False 1

Cobalt, total, mg/L Location: APW-4

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date

Value IT Value Low Side High Side

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L Location: APW-5

Mean of all data: 0.0040

Standard Deviation of all data: 0.0049

Largest Observation Concentration of all data: Xn = 0.0265

Test Statistic, high extreme of all data: Tn = 4.6049

T Critical of all data: Tcr = 2.6980

Sample Date Outlier Outlier Outlier

Low Side High Side

03/21/2018 0.0265 False 1

Cobalt, total, mg/L Location: APW-6

Mean of all data: 0.0027

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0077

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0077 False

Cobalt, total, mg/L Location: APW-7

Mean of all data: 0.0032

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: Xn = 0.0207

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

09/19/2017 0.0207 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cobalt, total, mg/L Location: APW-8

Mean of all data: 0.0056

Standard Deviation of all data: 0.0143

Largest Observation Concentration of all data: Xn = 0.0771

Test Statistic, high extreme of all data: Tn = 4.9861

T Critical of all data: Tcr = 2.6980

Sample Date Value LT Value Low Side High Side

12/09/2019 0.0771 False 1

Cobalt, total, mg/L Location: APW-9

Mean of all data: 0.0047

Standard Deviation of all data: 0.0031

Largest Observation Concentration of all data: Xn = 0.0119Test Statistic, high extreme of all data: Tn = 2.3518

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Copper, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0021

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: Xn = 0.0068

Test Statistic, high extreme of all data: Tn = 3.5322

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/30/2021 0.0068 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Copper, dissolved, mg/L **Location: APW-10**

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Copper, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier High Side Sample Date Value LT_Value Low Side

No Outliers

Copper, dissolved, mg/L **Location: APW-12**

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Copper, dissolved, mg/L **Location: APW-13**

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier Sample Date Value LT Value Low Side High Side

No Outliers

Copper, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier High Side Sample Date Value LT_Value Low Side

No Outliers

Copper, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier High Side Sample Date Value LT_Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Copper, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.4728

T Critical of all data: Tcr = 2.7730

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Copper, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0019

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Copper, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

77

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Copper, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Copper, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Copper, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L Location: APW-1

Mean of all data: 0.0037

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: Xn = 0.0226

Test Statistic, high extreme of all data: Tn = 4.4987

T Critical of all data: Tcr = 2.6980

Sample Date Value LT Value Low Side Outlier

Outlier Outlier

High Side

03/21/2018 0.0226 False 1

Copper, total, mg/L Location: APW-10

Mean of all data: 0.0071

Standard Deviation of all data: 0.0189

Largest Observation Concentration of all data: Xn = 0.0913Test Statistic, high extreme of all data: Tn = 4.4556

T Critical of all data: Ter = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.0913 False 1

Copper, total, mg/L Location: APW-11

Mean of all data: 0.0089

Standard Deviation of all data: 0.0223

Largest Observation Concentration of all data: Xn = 0.1070

Test Statistic, high extreme of all data: Tn = 4.4074

T Critical of all data: Tcr = 2.6030

Based on Grubbs one-sided outlier test

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Copper, total, mg/L **Location: APW-12**

Mean of all data: 0.0067

Standard Deviation of all data: 0.0146

Largest Observation Concentration of all data: Xn = 0.0693

Test Statistic, high extreme of all data: Tn = 4.2832

T Critical of all data: Tcr = 2.5800

Outlier Outlier Sample Date Value LT Value Low Side High Side

0.0693 False 12/13/2021 1

Copper, total, mg/L **Location: APW-13**

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date LT Value Low Side Value

No Outliers

Copper, total, mg/L **Location: APW-2**

Mean of all data: 0.0027

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: Xn = 0.0071

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier Sample Date Value LT Value Low Side High Side

09/22/2023 0.0071 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L Location: APW-3

Mean of all data: 0.0031

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: Xn = 0.0128

Test Statistic, high extreme of all data: Tn = 4.4122

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/22/2023 0.0128 False 1

Copper, total, mg/L Location: APW-4

Mean of all data: 0.0045

Standard Deviation of all data: 0.0039

Largest Observation Concentration of all data: Xn = 0.0159Test Statistic, high extreme of all data: Tn = 2.9032

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.0159 False 1

Copper, total, mg/L Location: APW-5

Mean of all data: 0.0030

Standard Deviation of all data: 0.0021

Largest Observation Concentration of all data: Xn = 0.0130

Test Statistic, high extreme of all data: Tn = 4.7125

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0130 False

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User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L Location: APW-6

Mean of all data: 0.0027

Standard Deviation of all data: 0.0012

Largest Observation Concentration of all data: Xn = 0.0086

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

Sample Date Value LT Value Low Side High Side

03/21/2018 0.0086 False 1

Copper, total, mg/L Location: APW-7

Mean of all data: 0.0034

Standard Deviation of all data: 0.0047

Largest Observation Concentration of all data: Xn = 0.0263

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 09/19/2017
 0.0263
 False
 1

Copper, total, mg/L Location: APW-8

Mean of all data: 0.0056

Standard Deviation of all data: 0.0152

Largest Observation Concentration of all data: Xn = 0.0815

Test Statistic, high extreme of all data: Tn = 4.9976

T Critical of all data: Tcr = 2.6980

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Copper, total, mg/L Location: APW-9

Mean of all data: 0.0030

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: Xn = 0.0093

Test Statistic, high extreme of all data: Tn = 4.0583

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

Sample Pate Low Side Ingili Side

03/21/2018 0.0093 False 1

Cyanide, total, mg/L Location: APW-1

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 1.244

T Critical of all data: Tcr = 2.811

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Cyanide, total, mg/L Location: APW-10

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.003

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L Location: APW-11

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.003

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier VI to Company of the Company of the

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cyanide, total, mg/L Location: APW-12

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.003

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cyanide, total, mg/L Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.003

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L Location: APW-2

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 1.227

T Critical of all data: Tcr = 2.786

Outlier Outlier Video

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cyanide, total, mg/L Location: APW-3

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 1.617

T Critical of all data: Tcr = 2.786

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cyanide, total, mg/L Location: APW-4

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 1.218

T Critical of all data: Tcr = 2.773

Outlier Outlier

Sample Date Value <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L Location: APW-5

Mean of all data: 0.002

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 1.244

T Critical of all data: Tcr = 2.811

Outlier Outlier Utlier Utlier Utlier Utlier Utlier Utlier Utlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cyanide, total, mg/L Location: APW-6

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 2.353

T Critical of all data: Tcr = 2.698

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cyanide, total, mg/L Location: APW-7

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 3.138

T Critical of all data: Tcr = 2.681

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 <0.004 True

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Cyanide, total, mg/L Location: APW-8

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 2.353

T Critical of all data: Tcr = 2.698

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Cyanide, total, mg/L Location: APW-9

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 2.300

T Critical of all data: Tcr = 2.681

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Fluoride, dissolved, mg/L

Location: APW-1

Mean of all data: 0.18

Standard Deviation of all data: 0.12

Largest Observation Concentration of all data: Xn = 0.54

Test Statistic, high extreme of all data: Tn = 3.06

T Critical of all data: Tcr = 2.81

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/08/2023 0.54 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-10

Mean of all data: 0.05

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.05

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Ter = 0.00

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Fluoride, dissolved, mg/L

Location: APW-11

Mean of all data: 0.06

Standard Deviation of all data: 0.02

Largest Observation Concentration of all data: Xn = 0.13

Test Statistic, high extreme of all data: Tn = 2.84

T Critical of all data: Tcr = 2.60

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/04/2019 0.13 False 1

Fluoride, dissolved, mg/L

Location: APW-12

Mean of all data: 0.33

Standard Deviation of all data: 0.04

Largest Observation Concentration of all data: Xn = 0.42

Test Statistic, high extreme of all data: Tn = 2.21

T Critical of all data: Tcr = 2.58

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-13

Mean of all data: 0.00

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.05

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Ter = 0.00

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Fluoride, dissolved, mg/L

Location: APW-2

Mean of all data: 0.29

Standard Deviation of all data: 0.07

Largest Observation Concentration of all data: Xn = 0.46

Test Statistic, high extreme of all data: Tn = 2.35

T Critical of all data: Tcr = 2.79

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/24/2011 <0.00 True -1

Fluoride, dissolved, mg/L

Location: APW-3

Mean of all data: 0.24

Standard Deviation of all data: 0.08

Largest Observation Concentration of all data: Xn = 0.54

Test Statistic, high extreme of all data: Tn = 3.53

T Critical of all data: Tcr = 2.79

 Sample Date
 Value
 LT Value
 Low Side
 High Side

10/28/2011 0.54 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-4

Mean of all data: 0.43

Standard Deviation of all data: 0.10

Largest Observation Concentration of all data: Xn = 0.79

Test Statistic, high extreme of all data: Tn = 3.65

T Critical of all data: Ter = 2.77

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

10/28/2011 0.79 False 1

Fluoride, dissolved, mg/L

Location: APW-5

Mean of all data: 0.12

Standard Deviation of all data: 0.09

Largest Observation Concentration of all data: Xn = 0.36

Test Statistic, high extreme of all data: Tn = 2.72

T Critical of all data: Tcr = 2.81

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Fluoride, dissolved, mg/L

Location: APW-6

Mean of all data: 0.15

Standard Deviation of all data: 0.04

Largest Observation Concentration of all data: Xn = 0.25

Test Statistic, high extreme of all data: Tn = 2.86

T Critical of all data: Tcr = 2.70

 Sample Date
 Value
 LT Value
 Low Side
 High Side

90

07/29/2020 0.25 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Fluoride, dissolved, mg/L

Location: APW-7

Mean of all data: 0.27

Standard Deviation of all data: 0.05

Largest Observation Concentration of all data: Xn = 0.40

Test Statistic, high extreme of all data: Tn = 2.81

T Critical of all data: Tcr = 2.68

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.40 False 1

Fluoride, dissolved, mg/L

Location: APW-8

Mean of all data: 0.10

Standard Deviation of all data: 0.05

Largest Observation Concentration of all data: Xn = 0.24

Test Statistic, high extreme of all data: Tn = 2.65

T Critical of all data: Ter = 2.70

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Fluoride, dissolved, mg/L

Location: APW-9

Mean of all data: 0.34

Standard Deviation of all data: 0.10

Largest Observation Concentration of all data: Xn = 0.57

Test Statistic, high extreme of all data: Tn = 2.18

T Critical of all data: Tcr = 2.68

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L Location: APW-1

Mean of all data: 0.0198

Standard Deviation of all data: 0.0260

Largest Observation Concentration of all data: Xn = 0.1620

Test Statistic, high extreme of all data: Tn = 5.4611

T Critical of all data: Tcr = 2.8110

Iron, dissolved, mg/L Location: APW-10

Mean of all data: 0.0434

Standard Deviation of all data: 0.1098

Largest Observation Concentration of all data: Xn = 0.5350Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 01/29/2019
 0.5350
 False
 1

Iron, dissolved, mg/L Location: APW-11

Mean of all data: 0.0256

Standard Deviation of all data: 0.0264

Largest Observation Concentration of all data: Xn = 0.1440

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L Location: APW-12

Mean of all data: 0.0270

Standard Deviation of all data: 0.0319

Largest Observation Concentration of all data: Xn = 0.1660

Test Statistic, high extreme of all data: Tn = 4.3644

T Critical of all data: Tcr = 2.5800

Sample Date Value LT Value Low Side High Side

12/13/2021 0.1660 False 1

Iron, dissolved, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Iron, dissolved, mg/L Location: APW-2

Mean of all data: 0.2017

Standard Deviation of all data: 0.2550

Largest Observation Concentration of all data: Xn = 1.1000

Test Statistic, high extreme of all data: Tn = 3.5222

T Critical of all data: Tcr = 2.7860

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/24/2011 1.1000 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Iron, dissolved, mg/L **Location: APW-3**

Mean of all data: 2.0371

Standard Deviation of all data: 1.5056

Largest Observation Concentration of all data: Xn = 5.4000

Test Statistic, high extreme of all data: Tn = 2.2336

T Critical of all data: Tcr = 2.7860

Outlier Outlier Sample Date Value LT Value Low Side High Side

No Outliers

Iron, dissolved, mg/L **Location: APW-4**

Mean of all data: 7.4282

Standard Deviation of all data: 4.0971

Largest Observation Concentration of all data: Xn = 16.0000

Test Statistic, high extreme of all data: Tn = 2.0922

T Critical of all data: Tcr = 2.7730

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Iron, dissolved, mg/L **Location: APW-5**

Mean of all data: 0.0146

Standard Deviation of all data: 0.0081

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.6597

T Critical of all data: Tcr = 2.8110

Outlier Outlier High Side LT_Value Low Side Sample Date Value

94

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L Location: APW-6

Mean of all data: 0.0185

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Iron, dissolved, mg/L Location: APW-7

Mean of all data: 0.0286

Standard Deviation of all data: 0.0230

Largest Observation Concentration of all data: Xn = 0.1130Test Statistic, high extreme of all data: Tn = 3.6632

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 07/29/2020
 0.1130
 False
 1

Iron, dissolved, mg/L Location: APW-8

Mean of all data: 0.0185

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, dissolved, mg/L Location: APW-9

Mean of all data: 0.0199

Standard Deviation of all data: 0.0083

Largest Observation Concentration of all data: Xn = 0.0565

Test Statistic, high extreme of all data: Tn = 4.4016

T Critical of all data: Tcr = 2.6810

Iron, total, mg/L Location: APW-1

Mean of all data: 2.4621

Standard Deviation of all data: 3.4170

Largest Observation Concentration of all data: Xn = 17.4000

Test Statistic, high extreme of all data: Tn = 4.3717

T Critical of all data: Tcr = 2.6980

Iron, total, mg/L Location: APW-10

Mean of all data: 3.2603

Standard Deviation of all data: 9.2787

Largest Observation Concentration of all data: Xn = 44.5000

Test Statistic, high extreme of all data: Tn = 4.4446

T Critical of all data: Tcr = 2.6030

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L Location: APW-11

Mean of all data: 3.9651

Standard Deviation of all data: 11.9703

Largest Observation Concentration of all data: Xn = 56.8000

Test Statistic, high extreme of all data: Tn = 4.4138

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/09/2019 56.8000 False 1

Iron, total, mg/L Location: APW-12

Mean of all data: 4.5028

Standard Deviation of all data: 12.3912

Largest Observation Concentration of all data: Xn = 57.6000

Test Statistic, high extreme of all data: Tn = 4.2851

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 57.6000 False

Iron, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 1.0600Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L Location: APW-2

Mean of all data: 3.1287

Standard Deviation of all data: 3.9802

Largest Observation Concentration of all data: Xn = 17.8000

Test Statistic, high extreme of all data: Tn = 3.6861

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 02/21/2019
 17/2019
 February
 1

03/21/2018 17.8000 False 1

Iron, total, mg/L Location: APW-3

Mean of all data: 5.4654

Standard Deviation of all data: 3.1528

Largest Observation Concentration of all data: Xn = 15.4000

Test Statistic, high extreme of all data: Tn = 3.1511

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 09/22/2023
 15.4000
 False
 1

Iron, total, mg/L Location: APW-4

Mean of all data: 13.0960

Standard Deviation of all data: 12.5782

Largest Observation Concentration of all data: Xn = 70.3000

Test Statistic, high extreme of all data: Tn = 4.5479

T Critical of all data: Tcr = 2.6810

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L Location: APW-5

Mean of all data: 0.7466

Standard Deviation of all data: 1.2309

Largest Observation Concentration of all data: Xn = 5.8000

Test Statistic, high extreme of all data: Tn = 4.1055

T Critical of all data: Tcr = 2.6980

Sample Date Value LT Value Low Side High Side

03/21/2018 5.8000 False 1

Iron, total, mg/L Location: APW-6

Mean of all data: 0.6617

Standard Deviation of all data: 0.7948

Largest Observation Concentration of all data: Xn = 3.8200

Test Statistic, high extreme of all data: Tn = 3.9739

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 03/21/2018
 3.8200
 False
 1

Iron, total, mg/L Location: APW-7

Mean of all data: 1.9924

Standard Deviation of all data: 6.7759

Largest Observation Concentration of all data: Xn = 35.0000

Test Statistic, high extreme of all data: Tn = 4.8713

T Critical of all data: Tcr = 2.6810

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Iron, total, mg/L Location: APW-8

Mean of all data: 2.0036

Standard Deviation of all data: 7.9549

Largest Observation Concentration of all data: Xn = 41.7000

Test Statistic, high extreme of all data: Tn = 4.9902

T Critical of all data: Tcr = 2.6980

Sample Date Value LT Value Low Side High Side

12/09/2019 41.7000 False 1

Iron, total, mg/L Location: APW-9

Mean of all data: 1.0415

Standard Deviation of all data: 1.2895

Largest Observation Concentration of all data: Xn = 5.0600

Test Statistic, high extreme of all data: Tn = 3.1163

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 5.0600 False 1

Lead, dissolved, mg/L Location: APW-1

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Sample Date Value LT Value Low Side High Side

100

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Lead, dissolved, mg/L Location: APW-10

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier VIII Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Lead, dissolved, mg/L Location: APW-11

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Lead, dissolved, mg/L Location: APW-12

Mean of all data: 0.0005

Standard Deviation of all data: 0.0001

Largest Observation Concentration of all data: Xn = 0.0011

Test Statistic, high extreme of all data: Tn = 4.3644

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.0011 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Lead, dissolved, mg/L **Location: APW-13**

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Lead, dissolved, mg/L **Location: APW-2**

Mean of all data: 0.0005

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0013 Test Statistic, high extreme of all data: Tn = 3.0839

T Critical of all data: Tcr = 2.7860

Outlier Outlier LT_Value High Side Sample Date Value Low Side

12/21/2022 0.0013 False

Lead, dissolved, mg/L **Location: APW-3**

Mean of all data: 0.0004

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0011

Test Statistic, high extreme of all data: Tn = 2.9313

T Critical of all data: Tcr = 2.7860

Outlier Outlier Sample Date High Side Value LT Value Low Side

06/18/2012 0.0011 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Lead, dissolved, mg/L Location: APW-4

Mean of all data: 0.0004

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0013

Test Statistic, high extreme of all data: Tn = 3.4299

T Critical of all data: Tcr = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

12/13/2021 0.0013 False 1

Lead, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0004

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0017

Test Statistic, high extreme of all data: Tn = 3.6810

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.0017 False 1

Lead, dissolved, mg/L Location: APW-6

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

103

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Lead, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Lead, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Lead, dissolved, mg/L **Location: APW-9**

Mean of all data: 0.0005

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0005

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date LT_Value Low Side Value

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L Location: APW-1

Mean of all data: 0.0032

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: Xn = 0.0179Test Statistic, high extreme of all data: Tn = 4.1282

T Critical of all data: Ter = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0179 False 1

Lead, total, mg/L Location: APW-10

Mean of all data: 0.0039

Standard Deviation of all data: 0.0097

Largest Observation Concentration of all data: Xn = 0.0469

Test Statistic, high extreme of all data: Tn = 4.4343

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.0469 False 1

Lead, total, mg/L Location: APW-11

Mean of all data: 0.0044

Standard Deviation of all data: 0.0127

Largest Observation Concentration of all data: Xn = 0.0605

Test Statistic, high extreme of all data: Tn = 4.4130

T Critical of all data: Tcr = 2.6030

Outlier Outlier

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 12/09/2019
 0.0605
 False
 1

Based on Grubbs one-sided outlier test

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L Location: APW-12

Mean of all data: 0.0040

Standard Deviation of all data: 0.0094

Largest Observation Concentration of all data: Xn = 0.0438

Test Statistic, high extreme of all data: Tn = 4.2258

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.0438 False 1

Lead, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0011Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Lead, total, mg/L Location: APW-2

Mean of all data: 0.0009

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: Xn = 0.0039

Test Statistic, high extreme of all data: Tn = 3.8189

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/22/2023 0.0039 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L Location: APW-3

Mean of all data: 0.0013

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: Xn = 0.0068

Test Statistic, high extreme of all data: Tn = 3.3607

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

09/22/2023 0.0068 False 1

Lead, total, mg/L Location: APW-4

Mean of all data: 0.0016

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: Xn = 0.0058

Test Statistic, high extreme of all data: Tn = 2.4683

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Lead, total, mg/L Location: APW-5

Mean of all data: 0.0012

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: Xn = 0.0078

Test Statistic, high extreme of all data: Tn = 3.7701

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

03/21/2018 0.0078 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L Location: APW-6

Mean of all data: 0.0010

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: Xn = 0.0040

Test Statistic, high extreme of all data: Tn = 3.7902

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0040 False 1

Lead, total, mg/L Location: APW-7

Mean of all data: 0.0017

Standard Deviation of all data: 0.0053

Largest Observation Concentration of all data: Xn = 0.0276

Test Statistic, high extreme of all data: Tn = 4.8888

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/19/2017 0.0276 False 1

Lead, total, mg/L Location: APW-8

Mean of all data: 0.0026

Standard Deviation of all data: 0.0092

Largest Observation Concentration of all data: Xn = 0.0484

Test Statistic, high extreme of all data: Tn = 4.9896

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/09/2019 0.0484 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Lead, total, mg/L Location: APW-9

Mean of all data: 0.0013

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 2.7909

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0050 False 1

Manganese, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0032

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: Xn = 0.0091

Test Statistic, high extreme of all data: Tn = 3.1091

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/18/2012 0.0091 False 1

Manganese, dissolved, mg/L

Location: APW-10Mean of all data: 0.0056

Standard Deviation of all data: 0.0089

Largest Observation Concentration of all data: Xn = 0.0452

Test Statistic, high extreme of all data: Tn = 4.4586

T Critical of all data: Tcr = 2.6030

Based on Grubbs one-sided outlier test

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0102

Standard Deviation of all data: 0.0203

Largest Observation Concentration of all data: Xn = 0.0900

Test Statistic, high extreme of all data: Tn = 3.9410

T Critical of all data: Tcr = 2.6030

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

06/04/2019 0.0900 False 1

Manganese, dissolved, mg/L

Location: APW-12

Mean of all data: 1.2098

Standard Deviation of all data: 0.3044

Largest Observation Concentration of all data: Xn = 1.7400

Test Statistic, high extreme of all data: Tn = 1.7419

T Critical of all data: Tcr = 2.5800

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Manganese, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0035

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

110

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-2

Mean of all data: 0.4429

Standard Deviation of all data: 0.3177

Largest Observation Concentration of all data: Xn = 1.0700

Test Statistic, high extreme of all data: Tn = 1.9740

T Critical of all data: Tcr = 2.7860

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Manganese, dissolved, mg/L

Location: APW-3

Mean of all data: 0.7745

Standard Deviation of all data: 0.2976

Largest Observation Concentration of all data: Xn = 1.3600

Test Statistic, high extreme of all data: Tn = 1.9673

T Critical of all data: Tcr = 2.7860

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Manganese, dissolved, mg/L

Location: APW-4

Mean of all data: 1.9113

Standard Deviation of all data: 0.9133

Largest Observation Concentration of all data: Xn = 5.4000

Test Statistic, high extreme of all data: Tn = 3.8200

T Critical of all data: Tcr = 2.7730

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

10/28/2011 5.4000 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0041

Standard Deviation of all data: 0.0066

Largest Observation Concentration of all data: Xn = 0.0400

Test Statistic, high extreme of all data: Tn = 5.4803

T Critical of all data: Tcr = 2.8110

Sample Date Outlier Outlier Outlier

Low Side High Side

06/18/2012 0.0400 False 1

Manganese, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0039

Standard Deviation of all data: 0.0038

Largest Observation Concentration of all data: Xn = 0.0224

Test Statistic, high extreme of all data: Tn = 4.9110

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.0224 False 1

Manganese, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0673

Standard Deviation of all data: 0.1374

Largest Observation Concentration of all data: Xn = 0.6110

Test Statistic, high extreme of all data: Tn = 3.9562

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/28/2017 0.6110 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0032

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: Xn = 0.0035

Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Manganese, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0034

Standard Deviation of all data: 0.0012

Largest Observation Concentration of all data: Xn = 0.0080

Test Statistic, high extreme of all data: Tn = 3.8741

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

10/0/2010

08/26/2019 0.0080 False

 $Manganese, \, total, \, mg/L$

Location: APW-1

Mean of all data: 0.2362

Standard Deviation of all data: 0.3553

Largest Observation Concentration of all data: Xn = 1.7900

Test Statistic, high extreme of all data: Tn = 4.3727

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Samula Data

Value

LT Value

Love Side

High Side

 Sample Date
 Value
 LT Value
 Low Side
 High Side

 03/21/2018
 1.7900
 False
 1

Based on Grubbs one-sided outlier test

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L Location: APW-10

Mean of all data: 0.2600

Standard Deviation of all data: 0.7134

Largest Observation Concentration of all data: Xn = 3.4300

Test Statistic, high extreme of all data: Tn = 4.4437

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 3.4300 False 1

Manganese, total, mg/L Location: APW-11

Mean of all data: 0.2754

Standard Deviation of all data: 0.7703

Largest Observation Concentration of all data: Xn = 3.6900Test Statistic, high extreme of all data: Tn = 4.4328

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 12/09/2019
 3.6900
 False
 1

Manganese, total, mg/L Location: APW-12

Mean of all data: 2.6840

Standard Deviation of all data: 2.4080

Largest Observation Concentration of all data: Xn = 12.0000

Test Statistic, high extreme of all data: Tn = 3.8688

T Critical of all data: Tcr = 2.5800

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0683

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier Video

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Manganese, total, mg/L

Location: APW-2

Mean of all data: 0.4155

Standard Deviation of all data: 0.2777

Largest Observation Concentration of all data: Xn = 1.1000Test Statistic, high extreme of all data: Tn = 2.4653

T Critical of all data: Ter = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Manganese, total, mg/L Location: APW-3

Mean of all data: 0.9626

Standard Deviation of all data: 0.2270

Largest Observation Concentration of all data: Xn = 1.4800

Test Statistic, high extreme of all data: Tn = 2.2788

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L

Location: APW-4

Mean of all data: 1.6930

Standard Deviation of all data: 0.3975

Largest Observation Concentration of all data: Xn = 2.3500

Test Statistic, high extreme of all data: Tn = 1.6526

T Critical of all data: Tcr = 2.6810

Outlier Outlier VI VI

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

11/08/2023 0.4990 False -1

Manganese, total, mg/L

Location: APW-5

Mean of all data: 0.1254

Standard Deviation of all data: 0.2337

Largest Observation Concentration of all data: Xn = 1.1500

Test Statistic, high extreme of all data: Tn = 4.3844

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

03/21/2018 1.1500 False 1

Manganese, total, mg/L

Location: APW-6

Mean of all data: 0.0454

Standard Deviation of all data: 0.0511

Largest Observation Concentration of all data: Xn = 0.2330

Test Statistic, high extreme of all data: Tn = 3.6701

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Sample Date Value LT Value Low Side High Side

03/21/2018 0.2330 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Manganese, total, mg/L Location: APW-7

Mean of all data: 0.1941

Standard Deviation of all data: 0.3898

Largest Observation Concentration of all data: Xn = 1.9200

Test Statistic, high extreme of all data: Tn = 4.4276

T Critical of all data: Tcr = 2.6810

Sample Date Outlier Outlier Outlier

Low Side High Side

09/19/2017 1.9200 False 1

Manganese, total, mg/L

Location: APW-8

Mean of all data: 0.1545

Standard Deviation of all data: 0.5158

Largest Observation Concentration of all data: Xn = 2.7100

Test Statistic, high extreme of all data: Tn = 4.9540

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/09/2019 2.7100 False 1

Manganese, total, mg/L

Location: APW-9

Mean of all data: 0.1066

Standard Deviation of all data: 0.1398

Largest Observation Concentration of all data: Xn = 0.5250

Test Statistic, high extreme of all data: Tn = 2.9926

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

03/21/2018 0.5250 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Mercury, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Mercury, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Mercury, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Mercury, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001

Test Statistic, high extreme of all data: Tn = 0.5110

T Critical of all data: Tcr = 2.7860

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Mercury, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.4728

T Critical of all data: Tcr = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Mercury, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

120

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Mercury, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Mercury, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001 Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

No Outliers

Mercury, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Mercury, total, mg/L Location: APW-1

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Mercury, total, mg/L Location: APW-10

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L Location: APW-11

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Mercury, total, mg/L Location: APW-12

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Mercury, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L Location: APW-2

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Mercury, total, mg/L Location: APW-3

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Mercury, total, mg/L Location: APW-4

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L Location: APW-5

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Sample Date Outlier Outlier Supple Date Value LT Value Low Side High Side

No Outliers

Mercury, total, mg/L Location: APW-6

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Mercury, total, mg/L Location: APW-7

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Mercury, total, mg/L Location: APW-8

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier VI Co.

Sample Date Value LT_Value Low Side High Side

No Outliers

Mercury, total, mg/L Location: APW-9

Mean of all data: 0.0001

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0001Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Nickel, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0025

Standard Deviation of all data: 0.0023

Largest Observation Concentration of all data: Xn = 0.0140

Test Statistic, high extreme of all data: Tn = 5.0314

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/24/2011 0.0140 False 1

Outlier

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, dissolved, mg/L Location: APW-10

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier Video

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Nickel, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000 T Critical of all data: Tcr = 0.0000

Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Nickel, dissolved, mg/L Location: APW-12

Mean of all data: 0.0071

Standard Deviation of all data: 0.0025

Largest Observation Concentration of all data: Xn = 0.0109

Test Statistic, high extreme of all data: Tn = 1.5365

T Critical of all data: Tcr = 2.5800

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Nickel, dissolved, mg/L **Location: APW-13**

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Nickel, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0037

Standard Deviation of all data: 0.0029

Largest Observation Concentration of all data: Xn = 0.0120

Test Statistic, high extreme of all data: Tn = 2.8516

T Critical of all data: Tcr = 2.7860

Outlier Outlier LT_Value High Side Sample Date Value Low Side

03/24/2011 0.0120 False

Nickel, dissolved, mg/L **Location: APW-3**

Mean of all data: 0.0033

Standard Deviation of all data: 0.0027

Largest Observation Concentration of all data: Xn = 0.0120

Test Statistic, high extreme of all data: Tn = 3.2064

T Critical of all data: Tcr = 2.7860

Outlier Outlier Sample Date Value LT Value Low Side High Side

09/17/2012 0.0120 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0037

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: Xn = 0.0190

Test Statistic, high extreme of all data: Tn = 4.2951

T Critical of all data: Tcr = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

09/15/2011 0.0190 False 1

Nickel, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0026

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: Xn = 0.0100

Test Statistic, high extreme of all data: Tn = 3.8316

T Critical of all data: Tcr = 2.8110

Outlier Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

06/24/2011 0.0100 False 1

Nickel, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Nickel, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0025

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0025

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Nickel, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0038

Standard Deviation of all data: 0.0030

Largest Observation Concentration of all data: Xn = 0.0119

Test Statistic, high extreme of all data: Tn = 2.6541

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L Location: APW-1

Mean of all data: 0.0095

Standard Deviation of all data: 0.0115

Largest Observation Concentration of all data: Xn = 0.0583

Test Statistic, high extreme of all data: Tn = 4.2380

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0583 False 1

Nickel, total, mg/L Location: APW-10

Mean of all data: 0.0118

Standard Deviation of all data: 0.0333

Largest Observation Concentration of all data: Xn = 0.1600

Test Statistic, high extreme of all data: Tn = 4.4503

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.1600 False 1

Nickel, total, mg/L Location: APW-11

Mean of all data: 0.0120

Standard Deviation of all data: 0.0318

Largest Observation Concentration of all data: Xn = 0.1520

Test Statistic, high extreme of all data: Tn = 4.4084

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/09/2019 0.1520 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L Location: APW-12

Mean of all data: 0.0170

Standard Deviation of all data: 0.0205

Largest Observation Concentration of all data: Xn = 0.1040

Test Statistic, high extreme of all data: Tn = 4.2366

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.1040 False 1

Nickel, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0056Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Nickel, total, mg/L Location: APW-2

Mean of all data: 0.0033

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: Xn = 0.0078

Test Statistic, high extreme of all data: Tn = 2.7087

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/22/2023 0.0078 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L Location: APW-3

Mean of all data: 0.0031

Standard Deviation of all data: 0.0018

Largest Observation Concentration of all data: Xn = 0.0091Test Statistic, high extreme of all data: Tn = 3.3078

T Critical of all data: Tcr = 2.6810

Nickel, total, mg/L Location: APW-4

Mean of all data: 0.0032

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: Xn = 0.0107Test Statistic, high extreme of all data: Tn = 3.4815

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 12/21/2017
 0.0107
 False
 1

Nickel, total, mg/L Location: APW-5

Mean of all data: 0.0049

Standard Deviation of all data: 0.0065

Largest Observation Concentration of all data: Xn = 0.0332Test Statistic, high extreme of all data: Tn = 4.3592

T Critical of all data: Tcr = 2.6980

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L Location: APW-6

Mean of all data: 0.0031

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: Xn = 0.0103

Test Statistic, high extreme of all data: Tn = 4.1262

T Critical of all data: Tcr = 2.6980

Sample Date Value LT_Value Outlier Outlier

Low Side High Side

03/21/2018 0.0103 False 1

Nickel, total, mg/L Location: APW-7

Mean of all data: 0.0044

Standard Deviation of all data: 0.0078

Largest Observation Concentration of all data: Xn = 0.0417

Test Statistic, high extreme of all data: Tn = 4.8076

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/19/2017 0.0417 False 1

Nickel, total, mg/L Location: APW-8

Mean of all data: 0.0077

Standard Deviation of all data: 0.0225

Largest Observation Concentration of all data: Xn = 0.1200

Test Statistic, high extreme of all data: Tn = 4.9812

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/09/2019 0.1200 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nickel, total, mg/L Location: APW-9

Mean of all data: 0.0065

Standard Deviation of all data: 0.0053

Largest Observation Concentration of all data: Xn = 0.0194

Test Statistic, high extreme of all data: Tn = 2.4396

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Nitrate nitrogen, dissolved, mg/L

Location: APW-1

Mean of all data: 3.854

Standard Deviation of all data: 1.421

Largest Observation Concentration of all data: Xn = 8.240

Test Statistic, high extreme of all data: Tn = 3.087

T Critical of all data: Tcr = 2.811

 Sample Date
 Value
 LT Value
 Low Side
 High Side

06/05/2018 8.240 False

Nitrate nitrogen, dissolved, mg/L

Location: APW-10

Mean of all data: 2.955

Standard Deviation of all data: 0.721

Largest Observation Concentration of all data: Xn = 4.530

Test Statistic, high extreme of all data: Tn = 2.183

T Critical of all data: Ter = 2.603

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>Low Side</u> <u>High Side</u>

135

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-11

Mean of all data: 3.272

Standard Deviation of all data: 1.140

Largest Observation Concentration of all data: Xn = 5.470

Test Statistic, high extreme of all data: Tn = 1.929

T Critical of all data: Tcr = 2.603

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Nitrate nitrogen, dissolved, mg/L

Location: APW-12

Mean of all data: 1.184

Standard Deviation of all data: 1.574

Largest Observation Concentration of all data: Xn = 5.500

Test Statistic, high extreme of all data: Tn = 2.742

T Critical of all data: Tcr = 2.580

Outlier Outlier

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 01/29/2019
 5.500
 False
 1

Nitrate nitrogen, dissolved, mg/L

Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 4.620

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

136

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-2

Mean of all data: 0.047

Standard Deviation of all data: 0.082

Largest Observation Concentration of all data: Xn = 0.400

Test Statistic, high extreme of all data: Tn = 4.285

T Critical of all data: Tcr = 2.786

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2010 0.400 False 1

Nitrate nitrogen, dissolved, mg/L

Location: APW-3

Mean of all data: 0.035

Standard Deviation of all data: 0.082

Largest Observation Concentration of all data: Xn = 0.490

Test Statistic, high extreme of all data: Tn = 5.520

T Critical of all data: Tcr = 2.786

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2010 0.490 False 1

Nitrate nitrogen, dissolved, mg/L

Location: APW-4

Mean of all data: 0.181

Standard Deviation of all data: 0.682

Largest Observation Concentration of all data: Xn = 3.890

Test Statistic, high extreme of all data: Tn = 5.440

T Critical of all data: Tcr = 2.773

Outlier Outlier

Sample Date Value LT Value Low Side High Side

11/08/2023 3.890 False

137

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-5

Mean of all data: 2.211

Standard Deviation of all data: 0.690

Largest Observation Concentration of all data: Xn = 4.290

Test Statistic, high extreme of all data: Tn = 3.012

T Critical of all data: Tcr = 2.811

Outlier Outlier

Sample Date Value LT Value Low Side High Side

4.290 False 11/11/2021 1

Nitrate nitrogen, dissolved, mg/L

Location: APW-6

Mean of all data: 0.410

Standard Deviation of all data: 0.389

Largest Observation Concentration of all data: Xn = 2.130

Test Statistic, high extreme of all data: Tn = 4.418

T Critical of all data: Tcr = 2.698

Outlier Outlier Sample Date LT Value Low Side High Side Value

12/09/2019 2.130 False

Nitrate nitrogen, dissolved, mg/L

Location: APW-7

Mean of all data: 1.886

Standard Deviation of all data: 1.790

Largest Observation Concentration of all data: Xn = 5.470

Test Statistic, high extreme of all data: Tn = 2.002

T Critical of all data: Tcr = 2.681

Outlier Outlier

Sample Date LT Value High Side Value Low Side

138

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nitrate nitrogen, dissolved, mg/L

Location: APW-8

Mean of all data: 4.277

Standard Deviation of all data: 0.690

Largest Observation Concentration of all data: Xn = 5.770

Test Statistic, high extreme of all data: Tn = 2.164

T Critical of all data: Tcr = 2.698

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Nitrate nitrogen, dissolved, mg/L

Location: APW-9

Mean of all data: 3.200

Standard Deviation of all data: 1.277

Largest Observation Concentration of all data: Xn = 8.330

Test Statistic, high extreme of all data: Tn = 4.018

T Critical of all data: Tcr = 2.681

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

07/29/2020 8.330 False

Nitrite nitrogen, dissolved, mg/L

Location: APW-1

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-10

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Ter = 2.56

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-11

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 2.56

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-12

Mean of all data: 0.03

Standard Deviation of all data: 0.01

Largest Observation Concentration of all data: Xn = 0.07

Test Statistic, high extreme of all data: Tn = 3.39

T Critical of all data: Tcr = 2.58

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

02/17/2020 0.07 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-13

Mean of all data: 0.00

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Ter = 0.00

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-2

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-3

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

Outlier Outlier High Side

Sample Date Value LT_Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-4

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Ter = 0.00

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-5

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-6

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

Outlier Outlier High Side

142

Sample Date Value LT_Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Nitrite nitrogen, dissolved, mg/L

Location: APW-7

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Ter = 0.00

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-8

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Nitrite nitrogen, dissolved, mg/L

Location: APW-9

Mean of all data: 0.03

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 0.03

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

pH (field), STD Location: APW-1

Mean of all data: 6.99

Standard Deviation of all data: 0.29

Largest Observation Concentration of all data: Xn = 7.83

Test Statistic, high extreme of all data: Tn = 2.90

T Critical of all data: Ter = 2.80

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

06/24/2011 7.83 False 1

pH (field), STD Location: APW-10

Mean of all data: 7.52

Standard Deviation of all data: 0.14

Largest Observation Concentration of all data: Xn = 7.75

Test Statistic, high extreme of all data: Tn = 1.61

T Critical of all data: Tcr = 2.60

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

06/30/2021 7.11 False -1

pH (field), STD Location: APW-11

Mean of all data: 7.38

Standard Deviation of all data: 0.15

Largest Observation Concentration of all data: Xn = 7.57

Test Statistic, high extreme of all data: Tn = 1.28

T Critical of all data: Ter = 2.60

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

pH (field), STD Location: APW-12

Mean of all data: 6.89

Standard Deviation of all data: 0.20

Largest Observation Concentration of all data: Xn = 7.24

Test Statistic, high extreme of all data: Tn = 1.76

T Critical of all data: Ter = 2.58

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

pH (field), STD Location: APW-13

Mean of all data: 0.00

Standard Deviation of all data: 0.00

Largest Observation Concentration of all data: Xn = 7.06

Test Statistic, high extreme of all data: Tn = 0.00

T Critical of all data: Tcr = 0.00

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

pH (field), STD Location: APW-2

Mean of all data: 6.85

Standard Deviation of all data: 0.26

Largest Observation Concentration of all data: Xn = 7.41

Test Statistic, high extreme of all data: Tn = 2.18

T Critical of all data: Tcr = 2.77

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2010 5.98 False -1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

pH (field), STD Location: APW-3

Mean of all data: 7.49

Standard Deviation of all data: 0.35

Largest Observation Concentration of all data: Xn = 8.36

Test Statistic, high extreme of all data: Tn = 2.49

T Critical of all data: Ter = 2.77

Outlier Outlier VI to Silver and Silver State of the Control of th

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

pH (field), STD Location: APW-4

Mean of all data: 6.87

Standard Deviation of all data: 0.25

Largest Observation Concentration of all data: Xn = 7.42

Test Statistic, high extreme of all data: Tn = 2.18

T Critical of all data: Tcr = 2.76

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2010 5.88 False -1

pH (field), STD Location: APW-5

Mean of all data: 7.36

Standard Deviation of all data: 0.25

Largest Observation Concentration of all data: Xn = 7.91

Test Statistic, high extreme of all data: Tn = 2.20

T Critical of all data: Tcr = 2.80

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/13/2010 6.44 False -1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

pH (field), STD Location: APW-6

Mean of all data: 7.15

Standard Deviation of all data: 0.18

Largest Observation Concentration of all data: Xn = 7.53

Test Statistic, high extreme of all data: Tn = 2.10

T Critical of all data: Ter = 2.70

Outlier Outlier Video

Sample Date Value LT_Value Low Side High Side

No Outliers

pH (field), STD Location: APW-7

Mean of all data: 7.00

Standard Deviation of all data: 0.16

Largest Observation Concentration of all data: Xn = 7.16

Test Statistic, high extreme of all data: Tn = 1.02

T Critical of all data: Tcr = 2.68

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

04/25/2023 6.50 False -1

pH (field), STD Location: APW-8

Mean of all data: 7.32

Standard Deviation of all data: 0.15

Largest Observation Concentration of all data: Xn = 7.56

Test Statistic, high extreme of all data: Tn = 1.57

T Critical of all data: Tcr = 2.70

 Sample Date
 Value
 LT Value
 Low Side
 High Side

04/26/2023 6.89 False -1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

pH (field), STD Location: APW-9

Mean of all data: 6.94

Standard Deviation of all data: 0.16

Largest Observation Concentration of all data: Xn = 7.24

Test Statistic, high extreme of all data: Tn = 1.85

T Critical of all data: Tcr = 2.68

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Selenium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0157

Standard Deviation of all data: 0.0080

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.5359

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Selenium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Selenium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0212

Standard Deviation of all data: 0.0054

Largest Observation Concentration of all data: Xn = 0.0453

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

01/26/2021 0.0453 False 1

Selenium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Selenium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0873

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Selenium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0161

Standard Deviation of all data: 0.0077

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.5089

T Critical of all data: Tcr = 2.7860

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Selenium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0160

Standard Deviation of all data: 0.0078

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.5099

T Critical of all data: Tcr = 2.7860

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Selenium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0191

Standard Deviation of all data: 0.0044

Largest Observation Concentration of all data: Xn = 0.0300

Test Statistic, high extreme of all data: Tn = 2.4532

T Critical of all data: Tcr = 2.7730

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2010 <0.0000 True -1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Selenium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0158

Standard Deviation of all data: 0.0078

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.5349

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Selenium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Selenium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Selenium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0692

Standard Deviation of all data: 0.0198

Largest Observation Concentration of all data: Xn = 0.0963

Test Statistic, high extreme of all data: Tn = 1.3700

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Selenium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

No Outliers

Selenium, total, mg/L **Location: APW-1**

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date LT Value High Side Value Low Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L Location: APW-10

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier Wild City

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Selenium, total, mg/L Location: APW-11

Mean of all data: 0.0213

Standard Deviation of all data: 0.0059

Largest Observation Concentration of all data: Xn = 0.0479Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

01/26/2021 0.0479 False

Selenium, total, mg/L Location: APW-12

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0892

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Selenium, total, mg/L Location: APW-2

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Selenium, total, mg/L Location: APW-3

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L Location: APW-4

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Selenium, total, mg/L Location: APW-5

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Selenium, total, mg/L Location: APW-6

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Selenium, total, mg/L Location: APW-7

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Selenium, total, mg/L Location: APW-8

Mean of all data: 0.0751

Standard Deviation of all data: 0.0158

Largest Observation Concentration of all data: Xn = 0.1110

Test Statistic, high extreme of all data: Tn = 2.2697

T Critical of all data: Tcr = 2.6980

Outlier Outlier What State of the Control of the Co

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Selenium, total, mg/L Location: APW-9

Mean of all data: 0.0200

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0200

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-1

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.625

T Critical of all data: Tcr = 2.811

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L Location: APW-10

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L Location: APW-11

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

Sample Date Value <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

157

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L Location: APW-12

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier VI to Silver and Silver State of the Control of th

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L Location: APW-2

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.605

T Critical of all data: Tcr = 2.786

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-3

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.605

T Critical of all data: Tcr = 2.786

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L

Location: APW-4

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.571

T Critical of all data: Tcr = 2.773

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L Location: APW-5

Mean of all data: 0.003

Standard Deviation of all data: 0.001

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.625

T Critical of all data: Tcr = 2.811

Outlier Outlier

Sample Date Value <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L

Location: APW-6

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.409

T Critical of all data: Tcr = 2.698

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L

Location: APW-7

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.418

T Critical of all data: Tcr = 2.681

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, dissolved, mg/L Location: APW-8

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.409

T Critical of all data: Tcr = 2.698

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

160

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, dissolved, mg/L Location: APW-9

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.418

T Critical of all data: Tcr = 2.681

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Silver, total, mg/L Location: APW-1

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.409

T Critical of all data: Tcr = 2.698

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Silver, total, mg/L Location: APW-10

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

Sample Date Value <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L Location: APW-11

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Silver, total, mg/L Location: APW-12

Mean of all data: 0.004

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, total, mg/L Location: APW-13

Mean of all data: 0.000

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.000

T Critical of all data: Tcr = 0.000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

162

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L Location: APW-2

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.418

T Critical of all data: Tcr = 2.681

Outlier Outlier Video

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, total, mg/L Location: APW-3

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.418

T Critical of all data: Tcr = 2.681

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, total, mg/L Location: APW-4

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.418

T Critical of all data: Tcr = 2.681

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L Location: APW-5

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.409

T Critical of all data: Tcr = 2.698

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Silver, total, mg/L Location: APW-6

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.409

T Critical of all data: Tcr = 2.698

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, total, mg/L Location: APW-7

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.418

T Critical of all data: Tcr = 2.681

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Silver, total, mg/L Location: APW-8

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.409

T Critical of all data: Tcr = 2.698

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Silver, total, mg/L Location: APW-9

Mean of all data: 0.003

Standard Deviation of all data: 0.000

Largest Observation Concentration of all data: Xn = 0.004

Test Statistic, high extreme of all data: Tn = 0.418

T Critical of all data: Tcr = 2.681

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-1

Mean of all data: 466

Standard Deviation of all data: 179

Largest Observation Concentration of all data: Xn = 1030

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Ter = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

09/17/2021 1030 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-10

Mean of all data: 558

Standard Deviation of all data: 97

Largest Observation Concentration of all data: Xn = 809

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-11

Mean of all data: 656

Standard Deviation of all data: 197

Largest Observation Concentration of all data: Xn = 1100

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-12

Mean of all data: 789

Standard Deviation of all data: 156

Largest Observation Concentration of all data: Xn = 1138

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-13

Mean of all data: 0

Standard Deviation of all data: 0

Largest Observation Concentration of all data: Xn = 1120

Test Statistic, high extreme of all data: Tn = 0

T Critical of all data: Tcr = 0

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-2

Mean of all data: 773

Standard Deviation of all data: 190

Largest Observation Concentration of all data: Xn = 1152

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-3

Mean of all data: 1095

Standard Deviation of all data: 172

Largest Observation Concentration of all data: Xn = 1430

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-4

Mean of all data: 805

Standard Deviation of all data: 109

Largest Observation Concentration of all data: Xn = 967

Test Statistic, high extreme of all data: Tn = 1

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-5

Mean of all data: 527

Standard Deviation of all data: 83

Largest Observation Concentration of all data: Xn = 707

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2010 267 False -1

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-6Mean of all data: 575

and the state of t

Standard Deviation of all data: 106

Largest Observation Concentration of all data: Xn = 793

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-7

Mean of all data: 649

Standard Deviation of all data: 85

Largest Observation Concentration of all data: Xn = 819

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-8

Mean of all data: 963

Standard Deviation of all data: 129

Largest Observation Concentration of all data: Xn = 1240

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-9

Mean of all data: 1261

Standard Deviation of all data: 275

Largest Observation Concentration of all data: Xn = 1740

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-1

Mean of all data: 16

Standard Deviation of all data: 5

Largest Observation Concentration of all data: Xn = 33

Test Statistic, high extreme of all data: Tn = 4

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

06/24/2011 33 False 1

 $Sulfate,\,dissolved,\,mg/L$

Location: APW-10

Mean of all data: 85

Standard Deviation of all data: 25

Largest Observation Concentration of all data: Xn = 126

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Sulfate, dissolved, mg/L

Location: APW-11

Mean of all data: 106

Standard Deviation of all data: 72

Largest Observation Concentration of all data: Xn = 309

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT Value
 Low Side
 High Side

01/26/2021 309 False 1

Based on Grubbs one-sided outlier test

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Sulfate, dissolved, mg/L

Location: APW-12

Mean of all data: 46

Standard Deviation of all data: 17

Largest Observation Concentration of all data: Xn = 96

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

Outlier Outlier Value LT Value Low Side

Sample Date High Side

01/29/2019 96 False 1

Sulfate, dissolved, mg/L

Location: APW-13

Mean of all data: 0

Standard Deviation of all data: 0

Largest Observation Concentration of all data: Xn = 205

Test Statistic, high extreme of all data: Tn = 0

T Critical of all data: Tcr = 0

Outlier Outlier

High Side Sample Date Value LT Value Low Side

No Outliers

Sulfate, dissolved, mg/L

Location: APW-2

Mean of all data: 21

Standard Deviation of all data: 15

Largest Observation Concentration of all data: Xn = 67

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

Outlier Outlier Sample Date Value LT Value Low Side High Side

11/27/2018 67 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Sulfate, dissolved, mg/L

Location: APW-3

Mean of all data: 130

Standard Deviation of all data: 102

Largest Observation Concentration of all data: Xn = 310

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Sulfate, dissolved, mg/L

Location: APW-4

Mean of all data: 26

Standard Deviation of all data: 12

Largest Observation Concentration of all data: Xn = 53

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Sulfate, dissolved, mg/L

Location: APW-5

Mean of all data: 30

Standard Deviation of all data: 18

Largest Observation Concentration of all data: Xn = 83

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

Outlier Outlier LT_Value Sample Date Value Low Side High Side

11/27/2018 83 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-6

Mean of all data: 19

Standard Deviation of all data: 9

Largest Observation Concentration of all data: Xn = 38

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Sulfate, dissolved, mg/L

Location: APW-7

Mean of all data: 29

Standard Deviation of all data: 8

Largest Observation Concentration of all data: Xn = 41

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

 $Sulfate,\,dissolved,\,mg/L$

Location: APW-8

Mean of all data: 287

Standard Deviation of all data: 71

Largest Observation Concentration of all data: Xn = 421

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

173

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Sulfate, dissolved, mg/L

Location: APW-9

Mean of all data: 431

Standard Deviation of all data: 148

Largest Observation Concentration of all data: Xn = 757

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Thallium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0007

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.6722

T Critical of all data: Tcr = 2.8110

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Thallium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Thallium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Thallium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010 Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier High Side Sample Date Value LT_Value Low Side

No Outliers

Thallium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date LT_Value Low Side Value

175

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Thallium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0007

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.6551

T Critical of all data: Tcr = 2.7860

Outlier Outlier VI Co.

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Thallium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.6096

T Critical of all data: Tcr = 2.7860

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Thallium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.6225

T Critical of all data: Tcr = 2.7730

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Thallium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0007

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.6722

T Critical of all data: Tcr = 2.8110

Outlier Outlier VI to Silver and Silver State of the Control of th

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Thallium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Thallium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4181

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Thallium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Thallium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4181

T Critical of all data: Tcr = 2.6810

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Thallium, total, mg/L Location: APW-1

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L Location: APW-10

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Sample Date Outlier Outlier Supple Date Value LT Value Low Side High Side

No Outliers

Thallium, total, mg/L Location: APW-11

Mean of all data: 0.0010

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Thallium, total, mg/L Location: APW-12

Mean of all data: 0.0011

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0024

Test Statistic, high extreme of all data: Tn = 4.3644

T Critical of all data: Tcr = 2.5800

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Thallium, total, mg/L Location: APW-2

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4181

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Thallium, total, mg/L Location: APW-3

Mean of all data: 0.0010

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: Xn = 0.0021Test Statistic, high extreme of all data: Tn = 3.8433

T Critical of all data: Tcr = 2.6810

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L Location: APW-4

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4181

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Thallium, total, mg/L Location: APW-5

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Thallium, total, mg/L Location: APW-6

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

Outlier Outlier Wilder

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Thallium, total, mg/L Location: APW-7

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4181

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Thallium, total, mg/L Location: APW-8

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010Test Statistic, high extreme of all data: Tn = 0.4092

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Thallium, total, mg/L Location: APW-9

Mean of all data: 0.0009

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: Xn = 0.0010

Test Statistic, high extreme of all data: Tn = 0.4181

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-1

Mean of all data: 228

Standard Deviation of all data: 75

Largest Observation Concentration of all data: Xn = 420

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Total Dissolved Solids, mg/L

Location: APW-10

Mean of all data: 328

Standard Deviation of all data: 42

Largest Observation Concentration of all data: Xn = 408

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Total Dissolved Solids, mg/L

Location: APW-11

Mean of all data: 389

Standard Deviation of all data: 142

Largest Observation Concentration of all data: Xn = 812

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

01/26/2021 812 False 1

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-12

Mean of all data: 435

Standard Deviation of all data: 99

Largest Observation Concentration of all data: Xn = 730

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

Name Di Valle Di Vall

01/29/2019 730 False 1

Total Dissolved Solids, mg/L

Location: APW-13

Mean of all data: 0

Standard Deviation of all data: 0

Largest Observation Concentration of all data: Xn = 624

Test Statistic, high extreme of all data: Tn = 0

T Critical of all data: Tcr = 0

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Total Dissolved Solids, mg/L

Location: APW-2

Mean of all data: 445

Standard Deviation of all data: 113

Largest Observation Concentration of all data: Xn = 630

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-3

Mean of all data: 702

Standard Deviation of all data: 88

Largest Observation Concentration of all data: Xn = 970

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

Sample Date Value LT Value Low Side Outlier

Outlier Outlier

High Side

09/17/2012 970 False 1

Total Dissolved Solids, mg/L

Location: APW-4

Mean of all data: 452

Standard Deviation of all data: 74

Largest Observation Concentration of all data: Xn = 690

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 06/18/2012
 690
 False
 1

Total Dissolved Solids, mg/L

Location: APW-5

Mean of all data: 277

Standard Deviation of all data: 59

Largest Observation Concentration of all data: Xn = 382

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-6

Mean of all data: 307

Standard Deviation of all data: 48

Largest Observation Concentration of all data: Xn = 398

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Total Dissolved Solids, mg/L

Location: APW-7

Mean of all data: 348

Standard Deviation of all data: 41

Largest Observation Concentration of all data: Xn = 464

Test Statistic, high extreme of all data: Tn = 3

T Critical of all data: Tcr = 3

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

01/29/2019 464 False 1

Total Dissolved Solids, mg/L

Location: APW-8

Mean of all data: 650

Standard Deviation of all data: 92

Largest Observation Concentration of all data: Xn = 832

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT Value Low Side High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Total Dissolved Solids, mg/L

Location: APW-9

Mean of all data: 932

Standard Deviation of all data: 245

Largest Observation Concentration of all data: Xn = 1430

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Vanadium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Vanadium, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

187

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Vanadium, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Vanadium, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

No Outliers

Vanadium, dissolved, mg/L

Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date LT_Value Low Side Value

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% **Number of Outliers: One Outlier**

Transform: None

Vanadium, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Vanadium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050 Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date Value LT_Value Low Side

No Outliers

Vanadium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

High Side Sample Date LT_Value Low Side Value

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Vanadium, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

No Outliers

Vanadium, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Vanadium, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date <u>Value LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Vanadium, dissolved, mg/L

Location: APW-8

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Vanadium, dissolved, mg/L

Location: APW-9

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier

Sample Date Value LT_Value Low Side High Side

No Outliers

Vanadium, total, mg/L Location: APW-1

Mean of all data: 0.0058

Standard Deviation of all data: 0.0031

Largest Observation Concentration of all data: Xn = 0.0205

Test Statistic, high extreme of all data: Tn = 4.7186

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

03/21/2018 0.0205 False 1

Based on Grubbs one-sided outlier test

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L Location: APW-10

Mean of all data: 0.0076

Standard Deviation of all data: 0.0122

Largest Observation Concentration of all data: Xn = 0.0622

Test Statistic, high extreme of all data: Tn = 4.4772

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.0622 False 1

Vanadium, total, mg/L Location: APW-11

Mean of all data: 0.0088

Standard Deviation of all data: 0.0158

Largest Observation Concentration of all data: Xn = 0.0790Test Statistic, high extreme of all data: Tn = 4.4477

T Critical of all data: Tcr = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/09/2019 0.0790 False 1

Vanadium, total, mg/L Location: APW-12

Mean of all data: 0.0097

Standard Deviation of all data: 0.0185

Largest Observation Concentration of all data: Xn = 0.0894

Test Statistic, high extreme of all data: Tn = 4.3080

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT Value
 Low Side
 High Side

12/13/2021 0.0894 False

192

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

Sample Date Value L1_Value Low Side High Side

No Outliers

Vanadium, total, mg/L Location: APW-2

Mean of all data: 0.0052

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: Xn = 0.0114Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 09/22/2023
 0.0114
 False
 1

Vanadium, total, mg/L Location: APW-3

Mean of all data: 0.0057

Standard Deviation of all data: 0.0026

Largest Observation Concentration of all data: Xn = 0.0160

Test Statistic, high extreme of all data: Tn = 3.8889

T Critical of all data: Tcr = 2.6810

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L Location: APW-4

Mean of all data: 0.0059

Standard Deviation of all data: 0.0027

Largest Observation Concentration of all data: Xn = 0.0152

Test Statistic, high extreme of all data: Tn = 3.4990

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

09/19/2017 0.0152 False 1

Vanadium, total, mg/L Location: APW-5

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Vanadium, total, mg/L Location: APW-6

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Vanadium, total, mg/L Location: APW-7

Mean of all data: 0.0072

Standard Deviation of all data: 0.0111

Largest Observation Concentration of all data: Xn = 0.0618

Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Tcr = 2.6810

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT Value</u> <u>Low Side</u> <u>High Side</u>

09/19/2017 0.0618 False 1

Vanadium, total, mg/L

Location: APW-8

Mean of all data: 0.0067

Standard Deviation of all data: 0.0091

Largest Observation Concentration of all data: Xn = 0.0522

Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

12/09/2019 0.0522 False 1

 $Vanadium,\,total,\,mg/L$

Location: APW-9

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

Sample Date Value LT Value Low Side High Side

195

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L Location: APW-1

Mean of all data: 0.0042

Standard Deviation of all data: 0.0030

Largest Observation Concentration of all data: Xn = 0.0162

Test Statistic, high extreme of all data: Tn = 4.0358

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

12/09/2019 0.0162 False 1

Zinc, dissolved, mg/L Location: APW-10

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

No Outliers

Zinc, dissolved, mg/L Location: APW-11

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L Location: APW-12

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

Test Statistic, high extreme of all data: Tn = T Critical of all data: Tcr = 0.0000

Sample Date Outlier Outlier Supple Date Value LT Value Low Side High Side

No Outliers

Zinc, dissolved, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Zinc, dissolved, mg/L Location: APW-2

Mean of all data: 0.0041

Standard Deviation of all data: 0.0020

Largest Observation Concentration of all data: Xn = 0.0064Test Statistic, high extreme of all data: Tn = 1.1370

T Critical of all data: Tcr = 2.7860

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L Location: APW-3

Mean of all data: 0.0043

Standard Deviation of all data: 0.0024

Largest Observation Concentration of all data: Xn = 0.0120

Test Statistic, high extreme of all data: Tn = 3.2189

T Critical of all data: Tcr = 2.7860

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

Sample Date Yalle El Value Low Side Ingli Side

06/18/2012 0.0120 False 1

Zinc, dissolved, mg/L Location: APW-4

Mean of all data: 0.0043

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: Xn = 0.0072

Test Statistic, high extreme of all data: Tn = 1.5215

T Critical of all data: Ter = 2.7730

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Zinc, dissolved, mg/L Location: APW-5

Mean of all data: 0.0039

Standard Deviation of all data: 0.0021

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.5365

T Critical of all data: Tcr = 2.8110

Outlier Outlier

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L Location: APW-6

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Sample Date Outlier Outlier Supple Date Value LT Value Low Side High Side

No Outliers

Zinc, dissolved, mg/L Location: APW-7

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

No Outliers

Zinc, dissolved, mg/L Location: APW-8

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Ter = 0.0000

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, dissolved, mg/L Location: APW-9

Mean of all data: 0.0050

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

Outlier Outlier VI VI

<u>Sample Date</u> <u>Value</u> <u>LT_Value</u> <u>Low Side</u> <u>High Side</u>

No Outliers

Zinc, total, mg/L Location: APW-1

Mean of all data: 0.0103

Standard Deviation of all data: 0.0103

Largest Observation Concentration of all data: Xn = 0.0510

Test Statistic, high extreme of all data: Tn = 3.9537

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT Value
 Low Side
 High Side

03/21/2018 0.0510 False 1

Zinc, total, mg/L Location: APW-10

Mean of all data: 0.0136

Standard Deviation of all data: 0.0347

Largest Observation Concentration of all data: Xn = 0.1680

Test Statistic, high extreme of all data: Tn = 4.4462

T Critical of all data: Ter = 2.6030

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

11/11/2021 0.1680 False

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L Location: APW-11

Mean of all data: 0.0158

Standard Deviation of all data: 0.0392

Largest Observation Concentration of all data: Xn = 0.1890

Test Statistic, high extreme of all data: Tn = 4.4153

T Critical of all data: Tcr = 2.6030

Sample Date Value LT Value Low Side High Side

12/09/2019 0.1890 False 1

Zinc, total, mg/L Location: APW-12

Mean of all data: 0.0163

Standard Deviation of all data: 0.0392

Largest Observation Concentration of all data: Xn = 0.1850Test Statistic, high extreme of all data: Tn = 4.2994

T Critical of all data: Tcr = 2.5800

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

12/13/2021 0.1850 False

Zinc, total, mg/L Location: APW-13

Mean of all data: 0.0000

Standard Deviation of all data: 0.0000

Largest Observation Concentration of all data: Xn = 0.0050

Test Statistic, high extreme of all data: Tn = 0.0000

T Critical of all data: Tcr = 0.0000

 Sample Date
 Value
 LT Value
 Low Side
 High Side

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L Location: APW-2

Mean of all data: 0.0067

Standard Deviation of all data: 0.0055

Largest Observation Concentration of all data: Xn = 0.0265

Test Statistic, high extreme of all data: Tn = 3.6183

T Critical of all data: Tcr = 2.6810

Sample Date Value LT Value Low Side High Side

11/11/2021 0.0265 False 1

Zinc, total, mg/L Location: APW-3

Mean of all data: 0.0084

Standard Deviation of all data: 0.0082

Largest Observation Concentration of all data: Xn = 0.0371Test Statistic, high extreme of all data: Tn = 3.5059

T Critical of all data: Tcr = 2.6810

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 09/22/2023
 0.0371
 False
 1

Zinc, total, mg/L Location: APW-4

Mean of all data: 0.0099

Standard Deviation of all data: 0.0092

Largest Observation Concentration of all data: Xn = 0.0369

Test Statistic, high extreme of all data: Tn = 2.9497

T Critical of all data: Tcr = 2.6810

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L Location: APW-5

Mean of all data: 0.0057

Standard Deviation of all data: 0.0026

Largest Observation Concentration of all data: Xn = 0.0173

Test Statistic, high extreme of all data: Tn = 4.4661

T Critical of all data: Tcr = 2.6980

Sample Date Value LT Value Low Side High Side

03/21/2018 0.0173 False 1

Zinc, total, mg/L Location: APW-6

Mean of all data: 0.0053

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: Xn = 0.0133Test Statistic, high extreme of all data: Tn = 5.0037

T Critical of all data: Tcr = 2.6980

 Sample Date
 Value
 LT_Value
 Low Side
 High Side

 03/21/2018
 0.0133
 False
 1

Zinc, total, mg/L Location: APW-7

Mean of all data: 0.0085

Standard Deviation of all data: 0.0177

Largest Observation Concentration of all data: Xn = 0.0953Test Statistic, high extreme of all data: Tn = 4.9029

T Critical of all data: Ter = 2.6810

User Supplied Information

Date Range: 12/13/2010 to 11/09/2023 LT Multiplier: x 0.50

Confidence Level: 95% Number of Outliers: One Outlier

Transform: None

Zinc, total, mg/L Location: APW-8

Mean of all data: 0.0106

Standard Deviation of all data: 0.0269

Largest Observation Concentration of all data: Xn = 0.1450

Test Statistic, high extreme of all data: Tn = 4.9962

T Critical of all data: Tcr = 2.6980

Zinc, total, mg/L Location: APW-9

Mean of all data: 0.0060

Standard Deviation of all data: 0.0028

Largest Observation Concentration of all data: Xn = 0.0154Test Statistic, high extreme of all data: Tn = 3.4022

T Critical of all data: Tcr = 2.6810

APPENDIX B3	MANN VENDALL	TECT DECIMIT	S CHORT TERM
SEN SLOPE AND	MANN-KENDALL	TEST RESULTS	5 - SHUKI TERM

User Supplied Information

Location ID:APW-1Parameter Code:00400Location Class:Parameter:pH (field)Location Type:GroundwaterUnits:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.00

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.00 STD per period Lower Confidence Limit of Slope, M1: 0.00 STD per period Upper Confidence Limit of Slope, M2+1: 0.00 STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0775 mg/L per period

R-Squared error of fit: 0.0388

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0923mg/L per periodLower Confidence Limit of Slope, M1:-.698mg/L per periodUpper Confidence Limit of Slope, M2+1:0.234mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Groundwater Units: mg/L Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00285 mg/L per period

R-Squared error of fit: 0.234

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00655

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 00720

Location Class: Parameter: Cyanide, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0437 mg/L per period

R-Squared error of fit: 0.0592

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00634

mg/L per period

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00259 mg/L per period

R-Squared error of fit: 0.0476

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00683mg/L per periodLower Confidence Limit of Slope, M1:-.00715mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0165mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000263 mg/L per period

R-Squared error of fit: 0.259

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000148mg/L per periodLower Confidence Limit of Slope, M1:-.000176mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000636mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01002
Location Class: Parameter: Arsenic, tot

Location Class:

Location Type:

Groundwater

Parameter:

Arsenic, total

Units:

mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000000755 mg/L per period

R-Squared error of fit: 0.325

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000548 mg/L per period

R-Squared error of fit: 0.0872

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000641mg/L per periodLower Confidence Limit of Slope, M1:-.0000265mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000109mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01007

Location Class: Parameter: Barium, total

Location Type: Groundwater Units: mg/L
Confidence Level: 95.00%

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000107 mg/L per period

R-Squared error of fit: 0.276

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000105mg/L per periodLower Confidence Limit of Slope, M1:-.0000281mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000477mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000216 mg/L per period

R-Squared error of fit: 0.307

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000637

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000490 mg/L per period

R-Squared error of fit: 0.324

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000294mg/L per periodLower Confidence Limit of Slope, M1:-.000118mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000227mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Groundwater Units: mg/L Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000949 mg/L per period

R-Squared error of fit: 0.00150

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.0 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.0 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:GroundwaterUnits:mg/L

Location Type: Groundwater
Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00165 mg/L per period

R-Squared error of fit: 0.586

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00273 mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000135 mg/L per period

R-Squared error of fit: 0.0421

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00000328

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000141 mg/L per period

R-Squared error of fit: 0.660

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.000228

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

 $\label{location Type: Groundwater Units: mg/L} Location Type: \qquad \qquad Groundwater \qquad \qquad Units: \qquad mg/L$

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000441 mg/L per period

R-Squared error of fit: 0.0926

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000451mg/L per periodLower Confidence Limit of Slope, M1:-.0000159mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000000124mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-1Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000175 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-1 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:00400Location Class:Parameter:pH (field)Location Type:Units:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.07

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.00 STD per period Lower Confidence Limit of Slope, M1: 0.00 STD per period Upper Confidence Limit of Slope, M2+1: 0.00 STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.128 mg/L per period

R-Squared error of fit: 0.654

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00501

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.0 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.0 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000882 mg/L per period

R-Squared error of fit: 0.255

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000527mg/L per periodLower Confidence Limit of Slope, M1:-.00260mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000579mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 00720

Location Class: Parameter: Cyanide, total Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00654 mg/L per period

R-Squared error of fit: 0.783

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00289 mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0666 mg/L per period

R-Squared error of fit: 0.852

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0683 mg/L per period mg/L per period mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000625 mg/L per period

R-Squared error of fit: 0.123

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000693mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000273mg/L per period

Upper Confidence Limit of Slope, M2+1:

0.00000273 mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01002Location Class:Parameter:Arsenic, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000163 mg/L per period

R-Squared error of fit: 0.0732

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000000903mg/L per periodLower Confidence Limit of Slope, M1:-.00000251mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000179mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000794 mg/L per period

R-Squared error of fit: 0.679

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000116

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01007Location Class:Parameter:Barium, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000177 mg/L per period

R-Squared error of fit: 0.561

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000265

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000787 mg/L per period

R-Squared error of fit: 0.316

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00195

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00107 mg/L per period

R-Squared error of fit: 0.298

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000715mg/L per periodLower Confidence Limit of Slope, M1:-.00251mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000310mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000144 mg/L per period

R-Squared error of fit: 0.0451

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $0.0 \,$ mg/L per period

Lower Confidence Limit of Slope, M1: -.0000000125 mg/L per period

Upper Confidence Limit of Slope, M2+1: $0.0 \,$ mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic: -.329 Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test):

User Supplied Information

Location ID: APW-10 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000263 mg/L per period

R-Squared error of fit: 0.0777

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.0 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.0 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000272 mg/L per period

R-Squared error of fit: 0.0777

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00263 mg/L per period

R-Squared error of fit: 0.200

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00128mg/L per periodLower Confidence Limit of Slope, M1:-.00473mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00198mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000355 mg/L per period

R-Squared error of fit: 0.200

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000172mg/L per periodLower Confidence Limit of Slope, M1:-.00000579mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000340mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000212 mg/L per period

R-Squared error of fit: 0.247

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000969mg/L per periodLower Confidence Limit of Slope, M1:-.000401mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000202mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000652 mg/L per period

R-Squared error of fit: 0.163

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.0 mg/L per period Lower Confidence Limit of Slope, M1: -.00000701 mg/L per period Upper Confidence Limit of Slope, M2+1: 0.0 mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-10Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000401 mg/L per period

R-Squared error of fit: 0.0777

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000256 mg/L per period

R-Squared error of fit: 0.0375

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-10 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:00400Location Class:Parameter:pH (field)Location Type:Units:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.01

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.00 STD per period Lower Confidence Limit of Slope, M1: 0.00 STD per period Upper Confidence Limit of Slope, M2+1: 0.00 STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.155 mg/L per period

R-Squared error of fit: 0.0821

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

mg/L per period
mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00505 mg/L per period

R-Squared error of fit: 0.424

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00449mg/L per periodLower Confidence Limit of Slope, M1:-.000165mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00860mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 00720

Location Class: Parameter: Cyanide, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00349 mg/L per period

R-Squared error of fit: 0.186

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00417mg/L per periodLower Confidence Limit of Slope, M1:-.0137mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00110mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0616 mg/L per period

R-Squared error of fit: 0.0558

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0949mg/L per periodLower Confidence Limit of Slope, M1:-.388mg/L per periodUpper Confidence Limit of Slope, M2+1:0.210mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01002Location Class:Parameter:Arsenic, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000000323 mg/L per period

R-Squared error of fit: 0.00152

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000104 mg/L per period

R-Squared error of fit: 0.506

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000751mg/L per periodLower Confidence Limit of Slope, M1:-.0000174mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000000477mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01007Location Class:Parameter:Barium, totalLocation Type:Units:mg/L

Location Type:
Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000135 mg/L per period

R-Squared error of fit: 0.579

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000209

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000359 mg/L per period

R-Squared error of fit: 0.00625

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000175mg/L per periodLower Confidence Limit of Slope, M1:-.00409mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00632mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000622 mg/L per period

R-Squared error of fit: 0.0154

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000180mg/L per periodLower Confidence Limit of Slope, M1:-.00663mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00608mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000174 mg/L per period

R-Squared error of fit: 0.00152

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line Slope (fitted to data): 0.0 mg/L per period R-Squared error of fit: 0.0 Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend
S Statistic:

Z test:
At the 95.0 % Confidence Level (two-tailed test):

None

User Supplied Information

Location ID:APW-11Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000608 mg/L per period

R-Squared error of fit: 0.283

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000412mg/L per periodLower Confidence Limit of Slope, M1:-.00137mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000404mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000562 mg/L per period

R-Squared error of fit: 0.180

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000392mg/L per periodLower Confidence Limit of Slope, M1:-.000103mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000258mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-11Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-11 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:00400Location Class:Parameter:pH (field)Location Type:Units:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.04

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.234 mg/L per period

R-Squared error of fit: 0.604

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.275mg/L per periodLower Confidence Limit of Slope, M1:0.0595mg/L per periodUpper Confidence Limit of Slope, M2+1:0.432mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00222 mg/L per period

R-Squared error of fit: 0.0779

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000257mg/L per periodLower Confidence Limit of Slope, M1:-.00280mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00904mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 00720 Location Class: Parameter: Cyanide, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0104 mg/L per period

R-Squared error of fit: 0.207

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0121mg/L per periodLower Confidence Limit of Slope, M1:-.0318mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00769mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0207 mg/L per period

R-Squared error of fit: 0.206

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0198mg/L per periodLower Confidence Limit of Slope, M1:-.0176mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0899mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000157 mg/L per period

R-Squared error of fit: 0.00000179

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000990mg/L per periodLower Confidence Limit of Slope, M1:-.0000996mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000143mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01002Location Class:Parameter:Arsenic, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000441 mg/L per period

R-Squared error of fit: 0.0850

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000000540mg/L per periodLower Confidence Limit of Slope, M1:-.0000141mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000618mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000209 mg/L per period

R-Squared error of fit: 0.0430

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000350mg/L per periodLower Confidence Limit of Slope, M1:-.0000536mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000903mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01007Location Class:Parameter:Barium, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000305 mg/L per period

R-Squared error of fit: 0.000590

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000354mg/L per periodLower Confidence Limit of Slope, M1:-.000145mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000962mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.0 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.0 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000129 mg/L per period

R-Squared error of fit: 0.576

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000117mg/L per periodLower Confidence Limit of Slope, M1:-.0000108mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000214mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000129 mg/L per period

R-Squared error of fit: 0.438

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000136mg/L per periodLower Confidence Limit of Slope, M1:-.0000379mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000304mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000250 mg/L per period

R-Squared error of fit: 0.0784

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000480 mg/L per period

R-Squared error of fit: 0.000767

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000333mg/L per periodLower Confidence Limit of Slope, M1:-.0000152mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000175mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000584 mg/L per period

R-Squared error of fit: 0.0885

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:-.0000218mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000558mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00494 mg/L per period

R-Squared error of fit: 0.0898

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000281mg/L per periodLower Confidence Limit of Slope, M1:-.0184mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00776mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000495 mg/L per period

R-Squared error of fit: 0.0928

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:-.0000128mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000400mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000571 mg/L per period

R-Squared error of fit: 0.0212

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00126mg/L per periodLower Confidence Limit of Slope, M1:-.00269mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00466mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000805 mg/L per period

R-Squared error of fit: 0.379

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000920mg/L per periodLower Confidence Limit of Slope, M1:-.000283mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00134mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000401 mg/L per period

R-Squared error of fit: 0.248

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000371mg/L per periodLower Confidence Limit of Slope, M1:0.0000137mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000103mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000287 mg/L per period

R-Squared error of fit: 0.0108

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000228mg/L per periodLower Confidence Limit of Slope, M1:-.0000168mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000229mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000631 mg/L per period

R-Squared error of fit: 0.0784

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-12Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000141 mg/L per period

R-Squared error of fit: 0.0891

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:-.0000493mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000163mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-12 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:00400Location Class:Parameter:pH (field)Location Type:GroundwaterUnits:STD

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.35

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.126 mg/L per period

R-Squared error of fit: 0.0898

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0855mg/L per periodLower Confidence Limit of Slope, M1:-.544mg/L per periodUpper Confidence Limit of Slope, M2+1:0.179mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000290 mg/L per period

R-Squared error of fit: 0.321

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 00720

Location Class: Parameter: Cyanide, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0108 mg/L per period

R-Squared error of fit: 0.181

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.0 mg/L per period Lower Confidence Limit of Slope, M1: -.0131 mg/L per period Upper Confidence Limit of Slope, M2+1: 0.0 mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00607 mg/L per period

R-Squared error of fit: 0.165

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00607mg/L per periodLower Confidence Limit of Slope, M1:-.0178mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00428mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000265 mg/L per period

R-Squared error of fit: 0.0942

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000318mg/L per periodLower Confidence Limit of Slope, M1:-.0000632mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000108mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000923 mg/L per period

R-Squared error of fit: 0.123

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000117mg/L per periodLower Confidence Limit of Slope, M1:-.00000129mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000240mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01002

Location Class:

Location Type:

Groundwater

Parameter:

Arsenic, total

Units:

mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000479 mg/L per period

R-Squared error of fit: 0.365

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000184mg/L per periodLower Confidence Limit of Slope, M1:0.000000588mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000845mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000291 mg/L per period

R-Squared error of fit: 0.0113

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000533mg/L per periodLower Confidence Limit of Slope, M1:-.0000203mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000190mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01007

Location Class: Parameter: Barium, total

Location Type: Groundwater Units: mg/L
Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000690 mg/L per period

R-Squared error of fit: 0.327

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000313mg/L per periodLower Confidence Limit of Slope, M1:-.0000357mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000143mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000996 mg/L per period

R-Squared error of fit: 0.211

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000572mg/L per periodLower Confidence Limit of Slope, M1:-.00232mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000817mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000761 mg/L per period

R-Squared error of fit: 0.0875

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00189

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000458 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000387 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01042
Location Class: Parameter: Copper, total

Location Class: Parameter: Copper, total Location Type: Groundwater Units: mg/L
Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000363 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0106 mg/L per period

R-Squared error of fit: 0.345

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00432mg/L per periodLower Confidence Limit of Slope, M1:-.000797mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0160mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000294 mg/L per period

R-Squared error of fit: 0.164

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000465mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000000553 mg/L per period

R-Squared error of fit: 0.00175

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000317 mg/L per period

R-Squared error of fit: 0.329

Sen's Non-parametric estimate of the slope (two-tailed test)

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000398 mg/L per period

R-Squared error of fit: 0.119

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000268mg/L per periodLower Confidence Limit of Slope, M1:-.000686mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00132mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000811 mg/L per period

R-Squared error of fit: 0.0169

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000224mg/L per periodLower Confidence Limit of Slope, M1:-.000581mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000344mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000419 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Groundwater Units: mg/L Confidence Level: 95.00%

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000506 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-2Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000193 mg/L per period

R-Squared error of fit: 0.408

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $0.0 \quad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $0.0 \quad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.0000162 \quad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000104 mg/L per period

R-Squared error of fit: 0.636

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $0.0 \quad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $0.0 \quad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.00000130 \quad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-2 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:00400Location Class:Parameter:pH (field)Location Type:GroundwaterUnits:STD

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.20

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.211 mg/L per period

R-Squared error of fit: 0.210

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.255mg/L per periodLower Confidence Limit of Slope, M1:-.181mg/L per periodUpper Confidence Limit of Slope, M2+1:0.759mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 00720

Location Class: Parameter: Cyanide, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0156 mg/L per period

R-Squared error of fit: 0.275

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00473mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0331mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0725 mg/L per period

R-Squared error of fit: 0.470

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0600mg/L per periodLower Confidence Limit of Slope, M1:-.0151mg/L per periodUpper Confidence Limit of Slope, M2+1:0.150mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

 $\label{location Type: Groundwater Units: mg/L} \mbox{Location Type:} \mbox{ Groundwater } \mbox{ Units: } \mbox{mg/L}$

Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000290 mg/L per period

R-Squared error of fit: 0.302

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000235mg/L per periodLower Confidence Limit of Slope, M1:-.0000684mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000106 mg/L per period

R-Squared error of fit: 0.0000184

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000318mg/L per periodLower Confidence Limit of Slope, M1:-.000182mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000251mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01002

Location Class:

Location Type:

Groundwater

Parameter:

Arsenic, total

Units:

mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000149 mg/L per period

R-Squared error of fit: 0.258

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000938mg/L per periodLower Confidence Limit of Slope, M1:-.000304mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000834mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000733 mg/L per period

R-Squared error of fit: 0.300

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000774mg/L per periodLower Confidence Limit of Slope, M1:-.0000168mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000187mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01007

Location Class: Parameter: Barium, total

Location Type: Groundwater Units: mg/L
Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000788 mg/L per period

R-Squared error of fit: 0.473

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000752mg/L per periodLower Confidence Limit of Slope, M1:-.0000149mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000128mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0118 mg/L per period

R-Squared error of fit: 0.351

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00980mg/L per periodLower Confidence Limit of Slope, M1:-.00398mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0274mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0118 mg/L per period

R-Squared error of fit: 0.306

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00979mg/L per periodLower Confidence Limit of Slope, M1:-.00747mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0280mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000711 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000379 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01042
Location Class: Parameter: Copper, to

Location Class:Parameter:Copper, totalLocation Type:GroundwaterUnits:mg/LConfidence Level:95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000814 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00659 mg/L per period

R-Squared error of fit: 0.179

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00114mg/L per periodLower Confidence Limit of Slope, M1:-.00753mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0149mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00149 mg/L per period

R-Squared error of fit: 0.0769

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000828mg/L per periodLower Confidence Limit of Slope, M1:-.00294mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00803mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000459 mg/L per period

R-Squared error of fit: 0.219

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000446mg/L per periodLower Confidence Limit of Slope, M1:-.00000292mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000781mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000343 mg/L per period

R-Squared error of fit: 0.312

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000430mg/L per periodLower Confidence Limit of Slope, M1:-.000102mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000814mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

 $\label{location Type: Groundwater Units: mg/L} Location Type: \qquad \qquad Groundwater \qquad \qquad Units: \qquad mg/L$

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000348 mg/L per period

R-Squared error of fit: 0.271

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000348mg/L per periodLower Confidence Limit of Slope, M1:-.000140mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000816mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.0 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.0 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000363 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000869 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-3Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000197 mg/L per period

R-Squared error of fit: 0.143

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:-.0000131mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000454mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Groundwater Units: mg/L Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-3 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:00400Location Class:Parameter:pH (field)Location Type:GroundwaterUnits:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.16

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.189 mg/L per period

R-Squared error of fit: 0.512

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.182mg/L per periodLower Confidence Limit of Slope, M1:-.0106mg/L per periodUpper Confidence Limit of Slope, M2+1:0.398mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Groundwater Units: mg/L Confidence Level: 95.00%

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00360 mg/L per period

R-Squared error of fit: 0.324

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000400mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00296mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 00720

Location Class: Parameter: Cyanide, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0406 mg/L per period

R-Squared error of fit: 0.451

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0465mg/L per periodLower Confidence Limit of Slope, M1:-.0899mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00968mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0328 mg/L per period

R-Squared error of fit: 0.377

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0481mg/L per periodLower Confidence Limit of Slope, M1:0.000370mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0729mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000370 mg/L per period

R-Squared error of fit: 0.00113

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000254mg/L per periodLower Confidence Limit of Slope, M1:-.000121mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000110mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000784 mg/L per period

R-Squared error of fit: 0.0643

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000859mg/L per periodLower Confidence Limit of Slope, M1:-.0000423mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000260mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01002

Location Class:

Location Type:

Groundwater

Parameter:

Arsenic, total

Units:

mg/L

Location Type: Groundwater
Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000139 mg/L per period

R-Squared error of fit: 0.154

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000167mg/L per periodLower Confidence Limit of Slope, M1:-.0000383mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000974mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000146 mg/L per period

R-Squared error of fit: 0.00424

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000209mg/L per periodLower Confidence Limit of Slope, M1:-.0000171mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000999mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01007

Location Class: Parameter: Barium, total

Location Type: Groundwater Units: mg/L
Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000521 mg/L per period

R-Squared error of fit: 0.673

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000259

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000527 mg/L per period

R-Squared error of fit: 0.397

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000474mg/L per periodLower Confidence Limit of Slope, M1:-.0000231mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00123mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000441 mg/L per period

R-Squared error of fit: 0.309

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000468mg/L per periodLower Confidence Limit of Slope, M1:-.000423mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00115mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Groundwater Units: mg/L Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000115 mg/L per period

R-Squared error of fit: 0.0776

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01042
Location Class: Parameter: Copper, to

Location Class:Parameter:Copper, totalLocation Type:GroundwaterUnits:mg/LConfidence Level:95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000863 mg/L per period

R-Squared error of fit: 0.167

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.0 mg/L per period Lower Confidence Limit of Slope, M1: -.0000194 mg/L per period Upper Confidence Limit of Slope, M2+1: 0.0 mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0182 mg/L per period

R-Squared error of fit: 0.509

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0203 mg/L per period mg/L per period mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00798 mg/L per period

R-Squared error of fit: 0.278

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00902mg/L per periodLower Confidence Limit of Slope, M1:-.0206mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00183mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000357 mg/L per period

R-Squared error of fit: 0.302

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000313mg/L per periodLower Confidence Limit of Slope, M1:-.00000895mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00122 mg/L per period

R-Squared error of fit: 0.429

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00265

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000886 mg/L per period

R-Squared error of fit: 0.304

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.000789

mg/L per period

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

 $Location \ Type: \qquad \qquad Groundwater \qquad \qquad Units: \qquad mg/L$

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-4Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000190 mg/L per period

R-Squared error of fit: 0.419

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000106mg/L per periodLower Confidence Limit of Slope, M1:-.0000256mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-4 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:00400Location Class:Parameter:pH (field)Location Type:GroundwaterUnits:STD

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.02

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0457 mg/L per period

R-Squared error of fit: 0.0239

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.119mg/L per periodLower Confidence Limit of Slope, M1:-.196mg/L per periodUpper Confidence Limit of Slope, M2+1:0.175mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000743 mg/L per period

R-Squared error of fit: 0.181

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000741mg/L per periodLower Confidence Limit of Slope, M1:-.000833mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00307mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 00720

Location Class: Parameter: Cyanide, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00467 mg/L per period

R-Squared error of fit: 0.0591

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00509mg/L per periodLower Confidence Limit of Slope, M1:-.0123mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0242mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0102 mg/L per period

R-Squared error of fit: 0.131

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $-.00580 \qquad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $-.0297 \qquad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.0101 \qquad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000598 mg/L per period

R-Squared error of fit: 0.586

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000578mg/L per periodLower Confidence Limit of Slope, M1:0.0000148mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000777mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01002
Location Class: Parameter: Arsenic, to

Location Class:

Location Type:

Groundwater

Parameter:

Arsenic, total

Units:

mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000578 mg/L per period

R-Squared error of fit: 0.0377

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000300 mg/L per period

R-Squared error of fit: 0.291

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000329mg/L per periodLower Confidence Limit of Slope, M1:-.00000428mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000808mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01007

Location Class:

Description Type:

Groundwater

Parameter:

Barium, total

Units:

mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000287 mg/L per period

R-Squared error of fit: 0.0542

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000112mg/L per periodLower Confidence Limit of Slope, M1:-.00000109mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000807mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000554 mg/L per period

R-Squared error of fit: 0.541

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000714mg/L per periodLower Confidence Limit of Slope, M1:0.0000296mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000129mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000124 mg/L per period

R-Squared error of fit: 0.168

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000145mg/L per periodLower Confidence Limit of Slope, M1:-.0000183mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000340mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000932 mg/L per period

R-Squared error of fit: 0.0377

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:GroundwaterUnits:mg/L

Location Type: Groundwater
Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000288 mg/L per period

R-Squared error of fit: 0.0000665

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $-.000292 \qquad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $-.00103 \qquad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.0 \qquad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000000369 mg/L per period

R-Squared error of fit: 0.0777

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000868 mg/L per period

R-Squared error of fit: 0.0377

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000212 mg/L per period

R-Squared error of fit: 0.00326

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.000172

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000206 mg/L per period

R-Squared error of fit: 0.0377

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.0 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.0 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-5Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:GroundwaterUnits:mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-5 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Groundwater Units: mg/L

Confidence Level: 95.00%

Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:00400Location Class:Parameter:pH (field)Location Type:Units:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.18

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0553 mg/L per period

R-Squared error of fit: 0.345

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0436mg/L per periodLower Confidence Limit of Slope, M1:-.0590mg/L per periodUpper Confidence Limit of Slope, M2+1:0.127mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000274 mg/L per period

R-Squared error of fit: 0.139

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000295mg/L per periodLower Confidence Limit of Slope, M1:-.000750mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000842mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 00720
Location Class: Parameter: Cyanide, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000762 mg/L per period

R-Squared error of fit: 0.0645

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00239mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00479 mg/L per period

R-Squared error of fit: 0.0459

Sen's Non-parametric estimate of the slope (two-tailed test)

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000537 mg/L per period

R-Squared error of fit: 0.355

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $\begin{array}{ccc} -.0000560 & mg/L \ per \ period \\ Lower Confidence Limit of Slope, M1: & -.000123 & mg/L \ per \ period \\ Upper Confidence Limit of Slope, M2+1: & 0.0000176 & mg/L \ per \ period \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01002Location Class:Parameter:Arsenic, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000000369 mg/L per period

R-Squared error of fit: 0.0776

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000443 mg/L per period

R-Squared error of fit: 0.464

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00000832

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01007Location Class:Parameter:Barium, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000539 mg/L per period

R-Squared error of fit: 0.353

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000373mg/L per periodLower Confidence Limit of Slope, M1:-.0000131mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000000600mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000645 mg/L per period

R-Squared error of fit: 0.312

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00138

mg/L per period

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000777 mg/L per period

R-Squared error of fit: 0.406

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000755mg/L per periodLower Confidence Limit of Slope, M1:-.00134mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000303mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line Slope (fitted to data): 0.0 mg/L per period R-Squared error of fit: 0.0 Sen's Non-parametric estimate of the slope (two-tailed test) Median Slope: mg/L per period 0.0 Lower Confidence Limit of Slope, M1: mg/L per period 0.0 Upper Confidence Limit of Slope, M2+1: mg/L per period 0.0

Non-parametric Mann-Kendall Test for Trend
S Statistic:

Z test:
At the 95.0 % Confidence Level (two-tailed test):

None

User Supplied Information

Location ID:APW-6Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000697 mg/L per period

R-Squared error of fit: 0.221

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000549mg/L per periodLower Confidence Limit of Slope, M1:-.00143mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000457mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01051
Location Class: Parameter: Lead, total
Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000000369 mg/L per period

R-Squared error of fit: 0.0776

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000280 mg/L per period

R-Squared error of fit: 0.0910

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000286mg/L per periodLower Confidence Limit of Slope, M1:-.0000738mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000497mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-6Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000472 mg/L per period

R-Squared error of fit: 0.226

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-6 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Units: mg/L

Confidence Level: 95.00%
Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:00400Location Class:Parameter:pH (field)Location Type:Units:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.01

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.00 STD per period Lower Confidence Limit of Slope, M1: 0.00 STD per period Upper Confidence Limit of Slope, M2+1: 0.00 STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0174 mg/L per period

R-Squared error of fit: 0.0471

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0542mg/L per periodLower Confidence Limit of Slope, M1:-.0989mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0501mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00518 mg/L per period

R-Squared error of fit: 0.577

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00462

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 00720
Location Class: Parameter: Cyanide, total

Location Type:

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023 mg/L

Units:

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0259 mg/L per period

R-Squared error of fit: 0.250

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0365mg/L per periodLower Confidence Limit of Slope, M1:-.0725mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00621mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0169 mg/L per period

R-Squared error of fit: 0.442

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $-.0123 \quad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $-.0304 \quad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.0 \quad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000107 mg/L per period

R-Squared error of fit: 0.0130

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:-.0000330mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000143mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01002Location Class:Parameter:Arsenic, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line
Slope (fitted to data):

R-Squared error of fit:

0.0 mg/L per period
0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000222 mg/L per period

R-Squared error of fit: 0.715

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000325

mg/L per period
mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01007Location Class:Parameter:Barium, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000227 mg/L per period

R-Squared error of fit: 0.776

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000391

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000268 mg/L per period

R-Squared error of fit: 0.286

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0000683

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000221 mg/L per period

R-Squared error of fit: 0.0890

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000151mg/L per periodLower Confidence Limit of Slope, M1:-.0000915mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000299mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line Slope (fitted to data): $0.0 \, \text{mg/L}$ per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line Slope (fitted to data): 0.0 mg/L per period R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000166 mg/L per period

R-Squared error of fit: 0.0344

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000430mg/L per periodLower Confidence Limit of Slope, M1:-.00123mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000495mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000222 mg/L per period

R-Squared error of fit: 0.153

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000478mg/L per periodLower Confidence Limit of Slope, M1:-.0000632mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000571mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-7Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-7 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:00400Location Class:Parameter:pH (field)Location Type:Units:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.28

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.183 mg/L per period

R-Squared error of fit: 0.583

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0280 mg/L per period mg/L per period mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000973 mg/L per period

R-Squared error of fit: 0.195

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00108mg/L per periodLower Confidence Limit of Slope, M1:-.00424mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00151mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 00720 Location Class: Parameter: Cyanide, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00134 mg/L per period

R-Squared error of fit: 0.164

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: 0.0 mg/L per period Lower Confidence Limit of Slope, M1: -.00358 mg/L per period Upper Confidence Limit of Slope, M2+1: 0.0 mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.158 mg/L per period

R-Squared error of fit: 0.492

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00999

mg/L per period
mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000114 mg/L per period

R-Squared error of fit: 0.398

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $-.000104 \qquad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $-.000252 \qquad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.0 \qquad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000138 mg/L per period

R-Squared error of fit: 0.650

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000155mg/L per periodLower Confidence Limit of Slope, M1:0.000000592mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000231mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01002Location Class:Parameter:Arsenic, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000495 mg/L per period

R-Squared error of fit: 0.0911

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000681mg/L per periodLower Confidence Limit of Slope, M1:-.00000115mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000231mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000202 mg/L per period

R-Squared error of fit: 0.239

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000195mg/L per periodLower Confidence Limit of Slope, M1:-.0000494mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000862mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01007Location Class:Parameter:Barium, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000232 mg/L per period

R-Squared error of fit: 0.269

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000175mg/L per periodLower Confidence Limit of Slope, M1:-.0000597mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000179mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00169 mg/L per period

R-Squared error of fit: 0.523

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00305

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00185 mg/L per period

R-Squared error of fit: 0.348

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.00407

mg/L per period

mg/L per period

mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000111 mg/L per period

R-Squared error of fit: 0.0722

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000893mg/L per periodLower Confidence Limit of Slope, M1:-.0000590mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000218mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000135 mg/L per period

R-Squared error of fit: 0.0796

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000118mg/L per periodLower Confidence Limit of Slope, M1:-.0000689mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000155mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line Slope (fitted to data):

0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line Slope (fitted to data): 0.0 mg/L per period R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.0 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.0 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000242 mg/L per period

R-Squared error of fit: 0.0164

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.000116mg/L per periodLower Confidence Limit of Slope, M1:-.000871mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00176mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000259 mg/L per period

R-Squared error of fit: 0.0223

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000428 mg/L per period

R-Squared error of fit: 0.0347

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000000812mg/L per periodLower Confidence Limit of Slope, M1:-.0000878mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000237mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00000291 mg/L per period

R-Squared error of fit: 0.225

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-8Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000000284 mg/L per period

R-Squared error of fit: 0.00000772

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.00000156mg/L per periodLower Confidence Limit of Slope, M1:-.000143mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000897mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000000120 mg/L per period

R-Squared error of fit: 0.0000000353

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0000118mg/L per periodLower Confidence Limit of Slope, M1:-.0000608mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000883mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-8 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:00400Location Class:Parameter:pH (field)Location Type:Units:STD

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.00 STD per period

R-Squared error of fit: 0.09

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00STD per periodLower Confidence Limit of Slope, M1:0.00STD per periodUpper Confidence Limit of Slope, M2+1:0.00STD per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 00515

Location Class: Parameter: Total Dissolved Solids

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.475 mg/L per period

R-Squared error of fit: 0.409

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.620mg/L per periodLower Confidence Limit of Slope, M1:-.898mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0478mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 00613

Location Class: Parameter: Nitrite nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 00618

Location Class: Parameter: Nitrate nitrogen, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000910 mg/L per period

R-Squared error of fit: 0.121

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $-.000309 \qquad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $-.00281 \qquad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.00165 \qquad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 00720 Location Class: Parameter: Cyanide, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 00941

Location Class: Parameter: Chloride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000256 mg/L per period

R-Squared error of fit: 0.00214

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:-.00286mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00263mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 00946

Location Class: Parameter: Sulfate, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.249 mg/L per period

R-Squared error of fit: 0.360

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

Lower Confidence Limit of Slope, M1:

Upper Confidence Limit of Slope, M2+1:

-.0383 mg/L per period mg/L per period mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 00950

Location Class: Parameter: Fluoride, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000361 mg/L per period

R-Squared error of fit: 0.619

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000335mg/L per periodLower Confidence Limit of Slope, M1:0.000104mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000624mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01000

Location Class: Parameter: Arsenic, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000414 mg/L per period

R-Squared error of fit: 0.0947

Sen's Non-parametric estimate of the slope (two-tailed test)

 $\begin{array}{ccc} \text{Median Slope:} & 0.00000362 & \text{mg/L per period} \\ \text{Lower Confidence Limit of Slope, M1:} & 0.0 & \text{mg/L per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.00000176 & \text{mg/L per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01002Location Class:Parameter:Arsenic, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000414 mg/L per period

R-Squared error of fit: 0.204

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.00000637mg/L per periodLower Confidence Limit of Slope, M1:-.000000994mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000121mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01005

Location Class: Parameter: Barium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000171 mg/L per period

R-Squared error of fit: 0.392

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:-.0000165mg/L per periodLower Confidence Limit of Slope, M1:-.0000371mg/L per periodUpper Confidence Limit of Slope, M2+1:0.00000204mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01007Location Class:Parameter:Barium, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000194 mg/L per period

R-Squared error of fit: 0.403

Sen's Non-parametric estimate of the slope (two-tailed test)

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01010

Location Class: Parameter: Beryllium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01012

Location Class: Parameter: Beryllium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01020

Location Class: Parameter: Boron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000453 mg/L per period

R-Squared error of fit: 0.000799

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $\begin{array}{ccc} -.000973 & mg/L \text{ per period} \\ \text{Lower Confidence Limit of Slope, M1:} & -.00193 & mg/L \text{ per period} \\ \text{Upper Confidence Limit of Slope, M2+1:} & 0.00131 & mg/L \text{ per period} \\ \end{array}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01022Location Class:Parameter:Boron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.000174 mg/L per period

R-Squared error of fit: 0.0116

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope: $-.000328 \qquad mg/L \text{ per period}$ Lower Confidence Limit of Slope, M1: $-.00207 \qquad mg/L \text{ per period}$ Upper Confidence Limit of Slope, M2+1: $0.00143 \qquad mg/L \text{ per period}$

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01025

Location Class: Parameter: Cadmium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01027

Location Class: Parameter: Cadmium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01030

Location Class: Parameter: Chromium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01034

Location Class: Parameter: Chromium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01035

Location Class: Parameter: Cobalt, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000208 mg/L per period

R-Squared error of fit: 0.0783

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01037Location Class:Parameter:Cobalt, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.00000227 mg/L per period

R-Squared error of fit: 0.0783

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01040

Location Class: Parameter: Copper, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01042Location Class:Parameter:Copper, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):

R-Squared error of fit:

0.0 mg/L per period

0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:

0.0 mg/L per period

Median Slope: 0.0 mg/L per periodLower Confidence Limit of Slope, M1: 0.0 mg/L per periodUpper Confidence Limit of Slope, M2+1: 0.0 mg/L per period

Non-parametric Mann-Kendall Test for Trend
S Statistic:
2 test:
At the 95.0 % Confidence Level (two-tailed test):
None

User Supplied Information

Location ID:APW-9Parameter Code:01045Location Class:Parameter:Iron, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): -.0000667 mg/L per period

R-Squared error of fit: 0.00193

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000218mg/L per periodLower Confidence Limit of Slope, M1:-.00127mg/L per periodUpper Confidence Limit of Slope, M2+1:0.000926mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01046

Location Class: Parameter: Iron, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01049

Location Class: Parameter: Lead, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01051Location Class:Parameter:Lead, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01055

Location Class: Parameter: Manganese, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0000248 mg/L per period

R-Squared error of fit: 0.105

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.000208mg/L per periodLower Confidence Limit of Slope, M1:-.0000661mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0000880mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01056

Location Class: Parameter: Manganese, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01057

Location Class: Parameter: Thallium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01059

Location Class: Parameter: Thallium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01065

Location Class: Parameter: Nickel, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01067Location Class:Parameter:Nickel, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01075

Location Class: Parameter: Silver, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01077Location Class:Parameter:Silver, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01085

Location Class: Parameter: Vanadium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01087

Location Class: Parameter: Vanadium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01090

Location Class: Parameter: Zinc, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID:APW-9Parameter Code:01092Location Class:Parameter:Zinc, totalLocation Type:Units:mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01095

Location Class: Parameter: Antimony, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000473 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01097

Location Class: Parameter: Antimony, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.000000552 mg/L per period

R-Squared error of fit: 0.228

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01145

Location Class: Parameter: Selenium, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 01147

Location Class: Parameter: Selenium, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 71890

Location Class: Parameter: Mercury, dissolved

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

User Supplied Information

Location ID: APW-9 Parameter Code: 71900

Location Class: Parameter: Mercury, total

Location Type: Units: mg/L

Confidence Level: 95.00% Date Range: 01/01/2022 to 12/31/2023

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:0.0mg/L per periodLower Confidence Limit of Slope, M1:0.0mg/L per periodUpper Confidence Limit of Slope, M2+1:0.0mg/L per period

Non-parametric Mann-Kendall Test for Trend

APPENDIX C SITE INSPECTION REPORTS

Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection Inspection Date: 03/07/2023

Location: Meredosia Power Plant

Temperature: 38 F

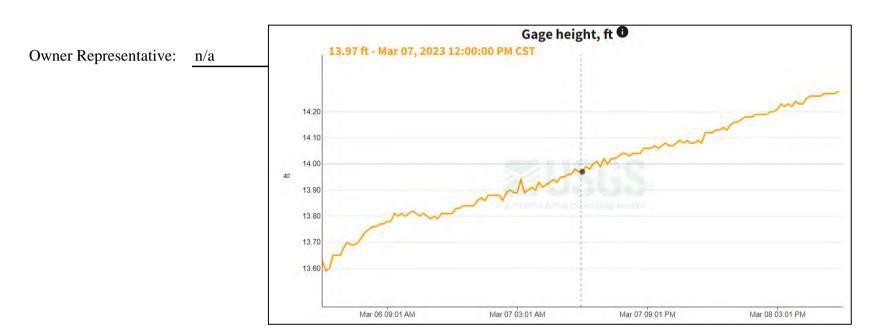
Weather: Sunny

System Description: Fly Ash Pond River Level 431.97

Bottom Ash Embankment gage at Meredosia 13.97

Gage 0' = 418.00' MSL

Bottom Ash Pond bottom Engineer/Inspectors: Lisa Meyer is at 430.00' MSL



Overall System Rating:

Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

Meredosia Power Station Fly Ash Pond Cap - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 2 of 9
Date	03/07/2023
Inspector	Lisa Meyer
Temperature	38 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	ОВ	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. No damage or degradation evident in the HDPE liner. Monitor.
	Riprap Outlet Flumes	GC	Flumes are in good condiiton.
	Other		
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Additional herbicide application occurred October 4, 2022.
	Vegetation at Toe	GC	Vegetation that re-emerged after flood-waters receded is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
4	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

QB = Condition requires regular observation to ensure that the condition does not become worse. **GC** = Good Condition. Working properly.

NE = No Evidence of a problem.

Meredosia Power Station Bottom Ash Embankment - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 3 of 9
Date	03/07/2023
Inspector	Lisa Meyer
Temperature	38 F
Weather	Sunny

	ltem	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
R	Other	GC	No issues.
	Vegetation at Toe	GC	Vegetation at toe has re-emerged after flood-waters receded.
ent	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
Embankment	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
Emba	Riprap at Toe	GC	Riprap at toe is in good condition.Weeds sprayed on Sept 23, 2022.
	Riprap Outlet Flumes	GC	Flumes are in good condition. Weeds sprayed on Sept 23, 2022
	Other	1	
	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
Remaining Basin	Bottom	GC	Vegetation is re-emerging after flooding. Some shallow ponding (<3" water) at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condtion. Weeds sprayed on Sept. 23, 2022.
	Toe Riprap	GC	Riprap in good condition.Weeds sprayed Sept 23, 2022.
	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

QB = Condition requires regular observation to ensure that the condition does not become worse.

GC = Good Condition. Working properly.

NE = No Evidence of a problem.

03/07/23 Inspection Page 4 of 9

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)







Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)







03/07/23 Inspection Page 5 of 9

Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)







Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)







03/07/23 Inspection Page 6 of 9

Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)







Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)

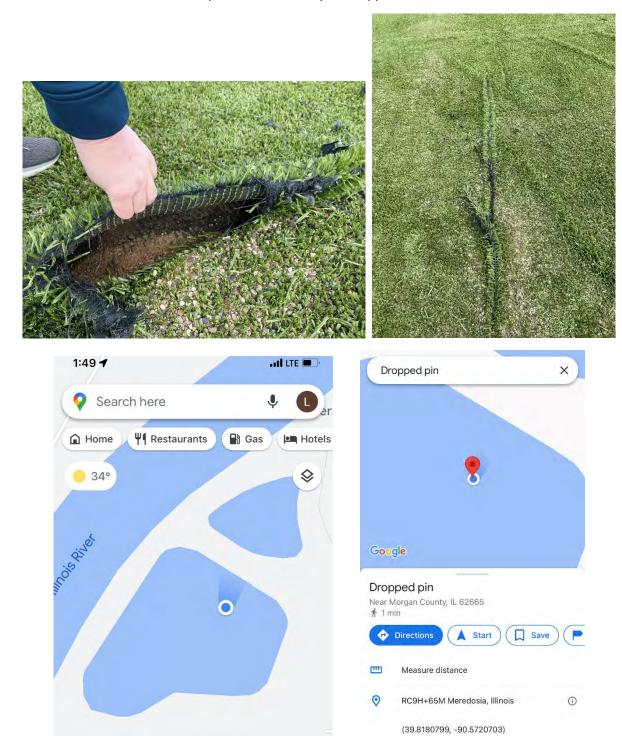






03/07/23 Inspection Page **7** of **9**

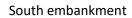
MONITOR – Fly Ash CAP – Turf Rip with approximate coordinates



03/07/23 Inspection Page 8 of 9

Bottom Ash CAP

North Embankment







River embankment

Letdown





Penetrations



03/07/23 Inspection Page 9 of 9

Old East Pond

East embankment



West embankment



North embankment



South embankment



Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Inspection Date: 04/18/2023

Location: Meredosia Power Plant

Temperature: 59 F Weather: Sunny

System Description: Fly Ash Pond

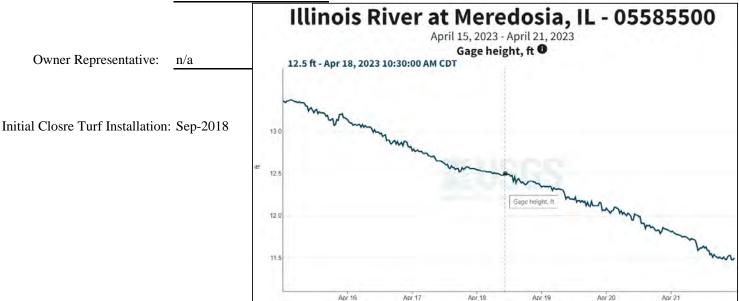
River Level 430.5 gage at Meredosia 12.5

Bottom Ash Embankment

Gage 0' = 418.00' MSL Bottom Ash Pond bottom

er is at 430.00' MSL

Engineer/Inspectors: Lisa Meyer



Overall System Rating:

Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

Meredosia Power Station Fly Ash Pond Cap - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 2 of 9
Date	04/18/2023
Inspector	Lisa Meyer
Temperature	59 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	ОВ	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. No damage or degradation evident in the HDPE liner. Monitor.
	Riprap Outlet Flumes	GC	Flumes are in good condiiton.
	Other		General Maintenace. On 4/16/23 watershedGeo applied DuraGuard to all ~36.5 acres over the course of 2 days. 35 gallons of DuraGuard and 2300 pounds of sand were applied
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Next herbicide application scheduled for mid-June.
	Vegetation at Toe	GC	Vegetation that re-emerged after flood-waters receded is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
4	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

QB = Condition requires regular observation to ensure that the condition does not become worse.

GC = Good Condition. Working properly.

NE = No Evidence of a problem.

Meredosia Power Station Bottom Ash Embankment - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 3 of 9
Date	04/18/2023
Inspector	Lisa Meyer
Temperature	59 F
Weather	Sunny

	ltem	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
R	Other	GC	No issues.
	Vegetation at Toe	GC	Vegetation at toe has re-emerged after flood-waters receded.
ent	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
Embankment	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
	Riprap at Toe	GC	Riprap at toe is in good condition. Next herbicide application scheduled for mid-June.
	Riprap Outlet Flumes	GC	Flumes are in good condition. Next herbicide application scheduled for mid-June.
4	Other	-	
	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
Remaining Basin	Bottom	GC	Vegetation is re-emerging after flooding. Some shallow ponding (<3" water) at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condtion. Next herbicide application scheduled for mid-June.
	Toe Riprap	GC	Riprap in good condition. Next herbicide application scheduled for mid-June.
	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.

NE = No Evidence of a problem.

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Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)







Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)







04/18/23 Inspection Page 5 of 9

Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)







Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)







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Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)







Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)





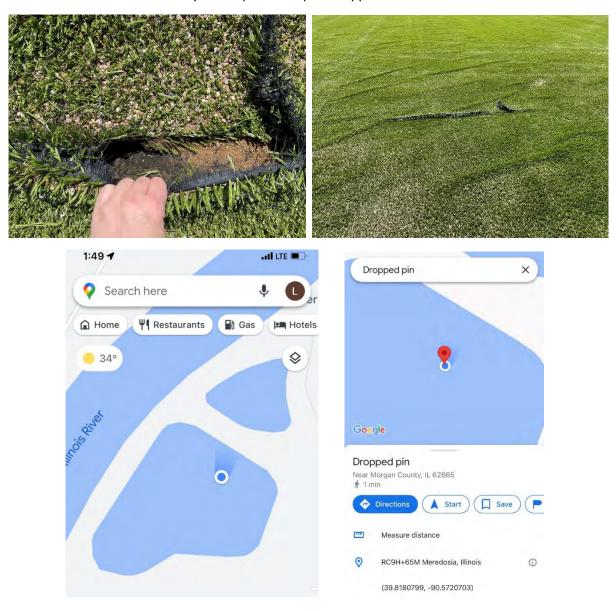


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DuraGuard 5-Year Application on Fly Ash Pond Cap



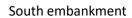
MONITOR – Fly Ash Cap – Turf Rip with approximate coordinates.



04/18/23 Inspection Page **8** of **9**

Bottom Ash CAP

North Embankment







River embankment

Letdown





Penetrations



Old East Pond

East embankment



West embankment



North embankment



South embankment



Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Inspection Date: 09/01/2023

Location: Meredosia Power Plant

Temperature: 75 F Weather: Sunny

System Description: Fly Ash Pond

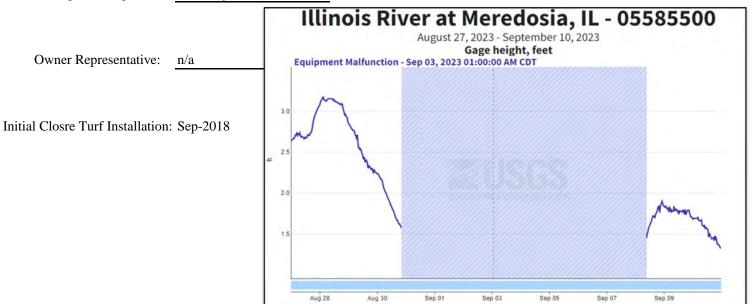
River Level 419.55 gage at Meredosia 1.55

Bottom Ash Embankment

Gage 0' = 418.00' MSL Bottom Ash Pond bottom

Engineer/Inspectors: Lisa Meyer

is at 430.00' MSL



Overall System Rating:

Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

Meredosia Power Station Fly Ash Pond Cap - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 2 of 9
Date	09/01/2023
Inspector	Lisa Meyer
Temperature	75 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	ОВ	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. No damage or degradation evident in the HDPE liner. Monitor.
Š	Riprap Outlet Flumes	GC	Flumes are in good condiiton.
	Other		
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Second herbicide application occurred in Aug. 2023.
	Vegetation at Toe	GC	Vegetation that re-emerged after flood-waters receded is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
4	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

QB = Condition requires regular observation to ensure that the condition does not become worse.

GC = Good Condition. Working properly.

NE = No Evidence of a problem.

Meredosia Power Station Bottom Ash Embankment - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 3 of 9
Date	09/01/2023
Inspector	Lisa Meyer
Temperature	75 F
Weather	Sunny

	Item	Condition	Comments
	item	Code *	- Commond
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
Ä	Other	GC	No issues.
	Vegetation at Toe	GC	Vegetation at toe is minimal.
ent	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
Embankment	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
Emba	Riprap at Toe	GC	Riprap at toe is in good condition. Second herbicide application occurred in Aug. 2023.
	Riprap Outlet Flumes	GC	Flumes are in good condition.
	Other		
Remaining Basin	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
	Bottom	GC	Vegetation at bottom is minimal. Some shallow ponding at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condtion.
	Toe Riprap	GC	Riprap in good condition
	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

QB = Condition requires regular observation to ensure that the condition does not become worse.
GC = Good Condition. Working properly.

NE = No Evidence of a problem.

09/01/23 Inspection Page 4 of 9

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)





Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)





09/01/23 Inspection Page 5 of 9

Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)







Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)







09/01/23 Inspection Page 6 of 9

Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)







Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)

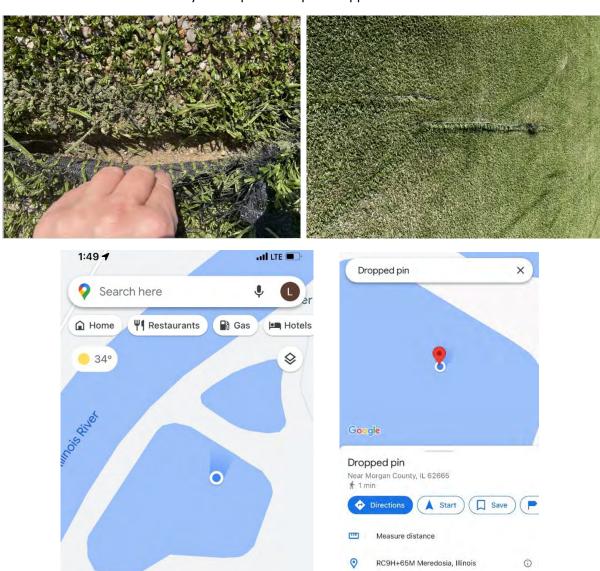






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MONITOR – Fly Ash Cap – Turf Rip with approximate coordinates.



(39.8180799, -90.5720703)

09/01/23 Inspection Page 8 of 9

Bottom Ash CAP

North Embankment







River embankment

Letdown





Penetrations



Old East Pond

East embankment



West embankment



North embankment



South embankment



12/20/2023

30 F

Sunny

Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection Inspection Date:

Location: Meredosia Power Plant Temperature:

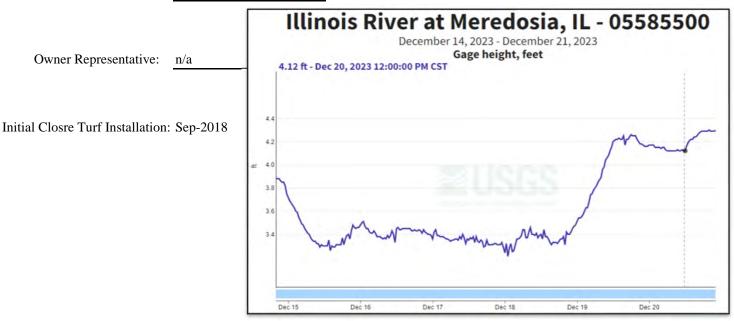
Weather:

System Description: Fly Ash Pond River Level 422.12

Bottom Ash Embankment gage at Meredosia 4.12

Gage 0' = 418.00' MSL Bottom Ash Pond bottom

Engineer/Inspectors: Annie Muehlfarth is at 430.00' MSL



Overall System Rating:

Acceptable

System Rating Codes

Acceptable System: Nearly all items or components are rated as GC or NE.

Minimally Acceptable System: One or more items are rated as MM or one or more items are rated as IM or EC and an engineering determination concludes that the IM or EC items would not prevent the system from performing as intended.

Unacceptable System: One or more items are rated as IM or EC and would prevent the system from performing as intended, or a serious deficiency noted in past inspections (which had previously resulted in a minimally acceptable system rating) has not been corrected within the established timeframe, not to exceed two years.

Condition Codes

EC = Emergency Condition. A serious dam safety condition exists that needs immediate action. Emergency measures implemented as instructed by Supervising Engineer, Dam Safety; i.e. pool draw down, work stoppage, or plant stoppage.

IM = Item needing Immediate Maintenance to restore or ensure its safety or integrity. Remediation should be completed within an appropriate timeframe as determined by the Supervising Engineer, Dam Safety.

MM = Item needing Minor Maintenance and/or repairs within the year. The safety or integrity of the item is not yet imperiled.

OB = Condition requires regular Observation to ensure that the condition does not become worse.

GC = Good Condition.

NE = No Evidence of a problem.

Meredosia Power Station Fly Ash Pond Cap - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 2 of 9
Date	12/20/2023
Inspector	Annie Muehlfarth
Temperature	30 F
Weather	Sunny

	Item	Condition Code *	Comments
Closure Cap	Drainage Ditch/ArmorFill	GC	ArmorFill in good condition in ditches. No change in locations/quantity of puddles in ditches.
	Sand on Cap	GC	Sand is in good condition. No need to place additional sand or sweep existing sand.
	ClosureTurf	GC	About a 3 ft tear in the turf towards the cap peak out from outfall 6. Turf flap from rip completely covers HDPE liner. This tear has been repaired.
Ö	Riprap Outlet Flumes	GC	Flumes are in good condiiton.
	Other		
Embankment	Riprap	GC	Riprap is in good condition.
	Vegetation in riprap	GC	No overgrowth of weeds or sapplings. Second herbicide application occurred in Aug. 2023.
	Vegetation at Toe	GC	Vegetation is not a problem.
	Debris/Logs	GC	Minimal debris on embankment and at toe of embankment.
	Erosion	GC	No erosion evident at toe of embankments.
	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

OB = Condition requires regular observation to ensure that the condition does not become worse.

GC = Good Condition. Working properly.

NE = No Evidence of a problem.

Meredosia Power Station Bottom Ash Embankment - ClosureTurf

Quarterly Site Inspection Checksheet

	Page 3 of 9
Date	12/20/2023
Inspector	Annie Muehlfarth
Temperature	30 F
Weather	Sunny

	Item	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
Re	Other	GC	No issues.
	Vegetation at Toe	GC	Vegetation at toe is minimal.
Embankment	ClosureTurf	GC	Turf is in good condition. Sand on slopes does not require sweeping.
	ArmorFill	GC	Polyurethane has been applied and sand is locked in-place. No disintegration of polyurethane material is evident at this time.
	Riprap at Toe	GC	Riprap at toe is in good condition. Second herbicide application occurred in Aug. 2023.
	Riprap Outlet Flumes	GC	Flumes are in good condition.
	Other		
Remaining Basin	Side Slopes	GC	Sedimentation logs are in good condition. Vegetation is established on the slopes.
	Bottom	GC	Vegetation at bottom is minimal. Some shallow ponding at various locations within the limits of the clean-closed bottom ash pond. Minimal debris (caused by flooding) along slopes of basin.
	Outlet Riprap	GC	Riprap is in good condtion.
	Toe Riprap	GC	Riprap in good condition
	Other		

Condition Codes

IM = Item needing Immediate Maintenance. Remediation should be completed within 1 month.

MM = Item needing Minor Maintenance and/or repairs within the year.

OB = Condition requires regular observation to ensure that the condition does not become worse.

GC = Good Condition. Working properly.

NE = No Evidence of a problem.
NI = Not Inspected. Reason should be stated in comment

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Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)





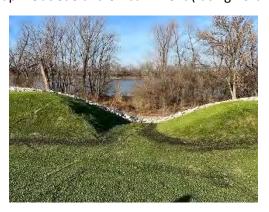
Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)





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Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)







Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)







12/20/23 Inspection Page 6 of 9

Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)







Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



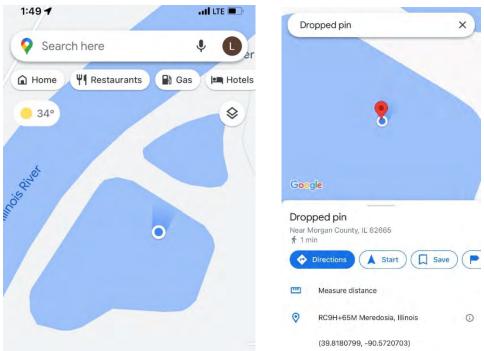




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Fly Ash Cap – Repaired Turf Rip with approximate coordinates.

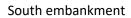




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Bottom Ash CAP

North Embankment







Southwest corner

Letdown





12/20/23 Inspection Page **9** of **9**

Old East Pond

East embankment



West embankment



North embankment



South embankment

