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2024 GROUNDWATER MONITORING ANNUAL REPORT

CLOSED FLY ASH & BOTTOM ASH PONDS FORMER MEREDOSIA POWER STATION



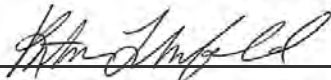
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**2024 GROUNDWATER MONITORING ANNUAL REPORT
CLOSED FLY ASH & BOTTOM ASH PONDS
FORMER MEREDOSIA POWER STATION**

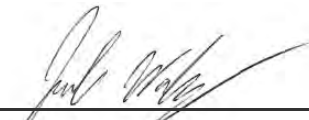
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ACRONYMS AND ABBREVIATIONS

Ameren	AmerenEnergy Medina Valley Cogen, LLC
Class I Groundwater Standard	Groundwater Quality Standards for Class I: Potable Resource Groundwater (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 2024 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.

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.

In accordance with 35 IAC § 840.114 and 35 IAC § 840.116, the Groundwater Monitoring Plan (GMP; Geotechnology, Inc., 2016a), 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 GMP Schedule is provided in **Table 1-1**. Field and laboratory parameters for evaluating groundwater quality are shown in **Table 1-2**.

The current groundwater monitoring network is comprised 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 GMP, groundwater sampling was restarted and quarterly monitoring was conducted at 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 facilitate groundwater monitoring. Locations of all monitoring wells are shown on **Figure 1-2**. 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 1-3**.

Seven quarterly rounds of pre-closure groundwater data and twenty-four quarterly rounds of post-closure data have been collected between January 2019 and December 2024 to satisfy requirements of the GMP. This annual report includes the following elements:

- A summary of post-closure groundwater monitoring data collected during 2023 and 2024 (**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 2024

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 2024) 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.

Time series plots of total and dissolved concentrations of arsenic and boron observed at each compliance groundwater monitoring well from 2019 through 2024 are presented on **Figures 1-3 through 1-26**. 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**. Long term concentration patterns, identified by positive or negative Sen's estimate of slope, and trends, identified by statistically significant upward or downward Mann-Kendall analysis on positive or negative Sen's estimate of slope, are presented in **Appendix B4**.

Dissolved and total arsenic concentration time series plots are presented in **Figures 1-3 through 1-14**. 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 2024, with the exception of APW-3. Dissolved and total arsenic concentrations in APW-3 are greater than the Class I Groundwater Standard, but both exhibit stable concentration patterns.

Dissolved and total boron concentration time series plots 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 decreasing concentration patterns.
- APW-9 – a single excursion greater than the Class I Groundwater Standard was observed during 2024 for total boron concentrations, but dissolved and total boron concentrations at APW-9 otherwise exhibit stable concentration patterns below the Class I Groundwater Standard.

Other wells in the monitoring network exhibit dissolved and total boron concentrations greater than the Class I Groundwater Standard (i.e., APW-8, 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**). Consequently, it is not likely the closed Fly Ash and Bottom Ash Ponds are contributing to the elevated dissolved and total boron concentrations observed at these wells. Additionally, dissolved and total boron concentrations at APW-11 exhibit stable concentration patterns, and decreasing concentration patterns at APW-8. Dissolved and total boron concentrations at APW-10 continued to exhibit the decreasing and stable concentration pattern observed in 2023, but have not quite decreased to concentrations observed prior to 2021.

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 2023 to 2024 is provided in **Figure 3-5** and a hydrograph showing Illinois River gage height from 2023 to 2024 at United States Geological Survey (USGS) gaging station 05585500 is provided in **Figure 3-6**. **Figures 3-5 and 3-6** show a general pattern of elevated groundwater elevations during the spring and summer months when elevated Illinois River gage height is observed relative to lower groundwater elevations observed during the autumn and winter months when lower Illinois River gage height is observed. Monitoring wells APW-13 and APW-14 were dry during all 2024 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 during sampling events in 2024. Horizontal hydraulic gradients calculated along the flow path from midgradient monitoring well APW-8 to downgradient compliance well APW-2 ranged from 0.0012 to 0.0033 feet per foot (ft/ft) during 2024.

3.2 Review of Analytical Data (2023–2024)

Groundwater samples from the most recent eight post-closure monitoring events were collected on February 2-3, 2023; April 25-26, 2023; September 20-22, 2023; November 8-9, 2023; March 12-14, 2024; June 10-12, 2024; August 26-28, 2024; and November 12-14, 2024. All sampling dates and field and laboratory analytical results are tabulated in **Appendix A**. Sampling anomalies are noted below:

- Monitoring well APW-13 was not sampled because it was dry or did not have adequate water during all sampling events.
- 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 2023 and 2024 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 2023 and 2024 are shown on **Figures 3-7A through 3-10B**.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved arsenic concentrations were less than (<) 0.0010 milligrams per liter (mg/L) and total arsenic concentrations ranged from <0.001 to 0.0106 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 <0.001 to 0.0094 mg/L.
 - Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved arsenic concentrations ranged from <0.0010 to 0.224 mg/L and total arsenic concentrations ranged from <0.001 to 0.344 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 3-11 through 3-14**.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved boron concentrations ranged from <0.02 to 4.12 mg/L and total boron concentrations ranged from <0.02 to 4.0 mg/L.
 - Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved boron concentrations ranged from 0.0656 to 6.47 mg/L and total boron concentrations ranged from 0.0731 to 6.73 mg/L.
 - Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved boron concentrations ranged from 0.0567 to 22.4 mg/L and total boron concentrations ranged from 0.0599 to 24.3 mg/L.
- Iron mobility is affected by fluctuations of oxidation-reduction conditions and pH, making it an unreliable coal ash indicator at the site (Geotechnology, Inc., 2016b). Dissolved and total iron concentrations are shown on **Figures 3-15 through 3-18**.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved iron concentrations were <0.040 mg/L and total iron concentrations ranged from <0.040 to 16.2 mg/L.
 - Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved iron concentrations were <0.040 mg/L and total iron concentrations ranged from <0.040 to 12.9 mg/L.
 - Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved iron concentrations ranged from <0.040 to 7.79 mg/L and total iron concentrations ranged from <0.040 to 15.4 mg/L.
- Manganese mobility is also affected by fluctuations of oxidation-reduction conditions and pH, making it an unreliable coal ash indicator at the site (Geotechnology, Inc., 2016b). Dissolved and total manganese concentrations are shown on **Figures 3-19 through 3-22**.
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved manganese concentrations ranged from <0.0070 to 0.238 mg/L and total manganese concentrations ranged from <0.0070 to 1.94 mg/L.
 - Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved manganese concentrations ranged from <0.0070 to 0.0075 mg/L and total manganese concentrations ranged from <0.0070 to 0.654 mg/L.
 - Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved manganese concentrations ranged from <0.0070 to 1.80 mg/L and total manganese concentrations ranged from <0.0070 to 4.36 mg/L.
- Sulfate is a non-indicator constituent, however, similar to indicator parameters, dissolved sulfate concentrations are generally less than the Class I Groundwater Standard, as illustrated by the box-whisker and timeseries plots (**Figures 3-23 and 3-24**).
 - Upgradient monitoring well (APW-1, APW-5, and APW-11) dissolved sulfate concentrations ranged from 11.0 to 197 mg/L.

- Midgradient monitoring well (APW-6, APW-7, APW-8, and APW-10) dissolved sulfate concentrations ranged from <10.0 to 218 mg/L.
- Downgradient monitoring well (APW-2, APW-3, APW-4, APW-9, and APW-12) dissolved sulfate concentrations ranged from <10.0 to 434 mg/L.

3.3 Statistical Analyses

Analytical data for downgradient compliance wells (APW-2, APW-3, APW-4, APW-9, and APW-12) were evaluated to identify short-term (compliance) trends in the 2023–2024 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 (2023–2024) by the Grubbs outlier test based on the date range of 2010–2024 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 at downgradient compliance wells since the only outliers greater than the Class I Groundwater Standard were identified at an upgradient well (APW-1).

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 sample results. A negative slope is identified as < -0.0005 , a positive slope is identified as > 0.0005 , and a result > -0.0005 and < 0.0005 is identified as having no slope. The test methodologies and results are listed in **Appendix B1 and B3**, respectively.

Two cases with positive slopes, three cases with negative slopes, and seven cases with flat or no slopes were identified in the 2023–2024 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 two 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 cases of statistically significant increasing trend in the 2023–2024 dataset for downgradient compliance wells (**Table 3-1; Appendix B3**).

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 well as fencing, monitoring points, and surface water control features. The inspection reports from 2024 are included in **Appendix C**.

Site inspections were performed on March 18, 2024; June 3, 2024; July 24, 2024; and December 6, 2024. 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 2023-2024 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 2023-2024 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 2025.

5. REFERENCES

Geotechnology, Inc., 2016a. *Groundwater Monitoring Plan, Fly Ash Pond and Bottom Ash Pond, Meredosia Power Station*. December 14, 2016.

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TABLES

Table 1-1. Groundwater Monitoring Program Schedule

2024 Annual Report

Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Frequency	Duration	Sampling Quarter
Quarterly	Begins: June 2017	January- March (1) April - June (2) July - September (3) October - December (4)
	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 Program Parameters
2024 Annual Report
Meredosia Power Station - Fly Ash Pond and Bottom Ash Pond

Field Parameters	STORET Code	
pH ²	00400	
Specific Conductance ²	00094	
Temperature (Fahrenheit)	00011	
Depth to Water (from TOC)	72109	
Elevation of Groundwater Surface ²	71993	
Depth of Well (BGS) ²	72008	
Elevation of Measuring Point	72110	
Laboratory Parameters ¹	STORET Code - Dissolved	STORET Code - Total
Boron ²	01020	01022
Iron ²	01046	01045
Manganese ²	01056	01055
Sulfate ²	00946	--
Total Dissolved Solids (TDS) ²	70300	--
Antimony	01095	01097
Arsenic	01000	01002
Barium	01005	01007
Beryllium	01010	01012
Cadmium	01025	01027
Chloride	00941	--
Chromium	01030	01034
Cobalt	01035	01037
Copper	01040	01042
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:

¹ Reported as dissolved (filtered) concentrations.

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

-- = not analyzed

BGS = Below Ground Surface

N = Nitrogen

STORET = Storage and retrieval

TOC = Top of Casing

Table 1-3. Groundwater Monitoring System Wells

2024 Annual Report

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

2024 Annual Report

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	DNE	DNE	DNE
Arsenic, total	DNE	None	DNE	DNE	DNE
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	DNE
Boron, total	DNE	-	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	DNE
Iron, total	DNE	+	DNE	DNE	DNE
Lead, dissolved	DNE	DNE	DNE	DNE	DNE
Lead, total	DNE	DNE	DNE	DNE	DNE
Manganese, dissolved	DNE	None	None	DNE	None
Manganese, total	None	+	None	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	DNE	DNE	DNE	DNE	DNE
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	DNE	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

2024 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 1/1/2023-12/31/2024.

* = 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

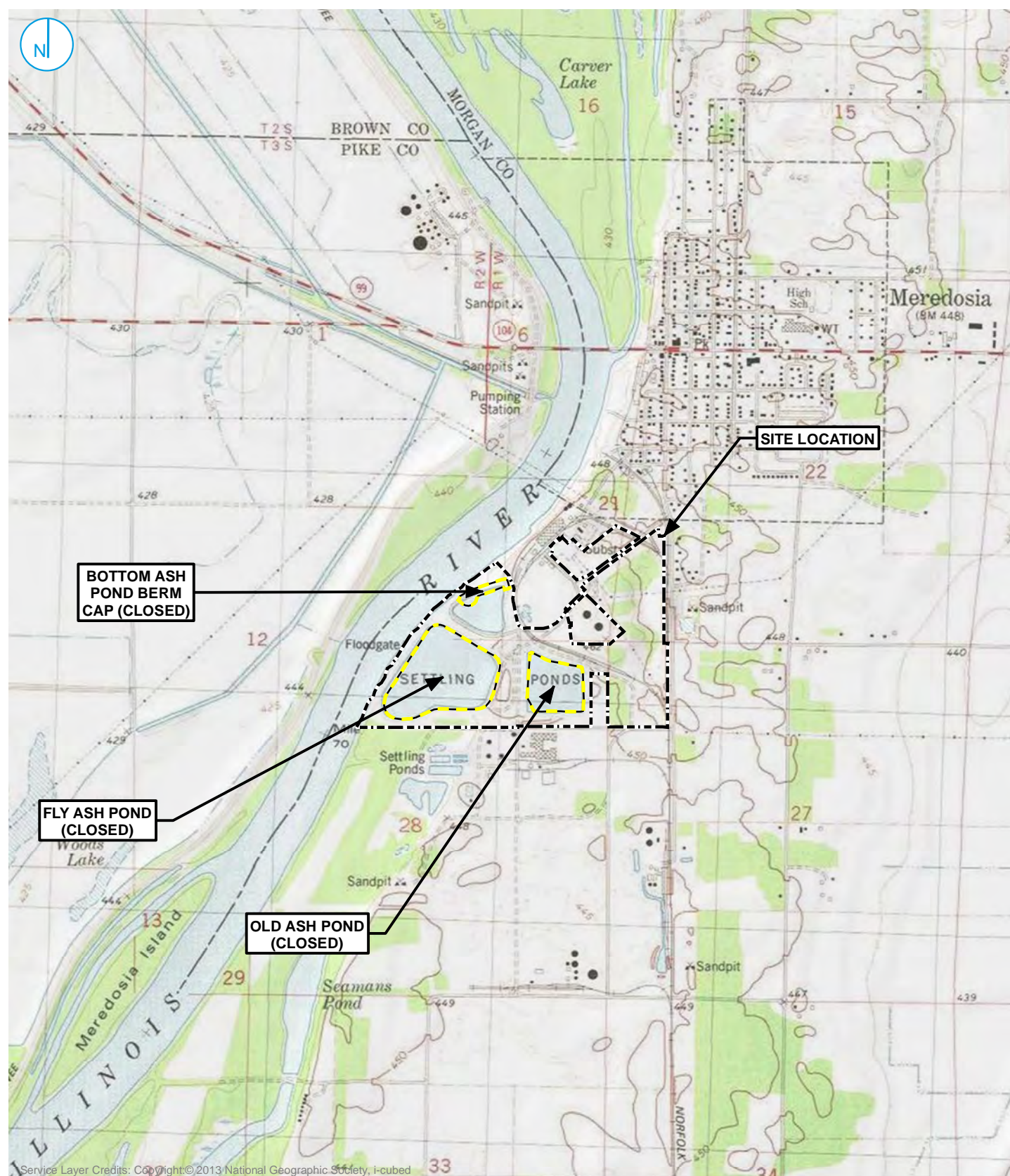
DNE = Constituent did not exceed the Class I groundwater quality standard during the reporting period (2023-2024)

None = Insufficient 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

Increase = Statistically significant increasing trend (*none identified*)

Decrease = Statistically significant decreasing trend (*none identified*)

FIGURES



Map Scale: 1:124,000;
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.

0 1,000 2,000 Feet

SITE LOCATION MAP

2024 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

2024 GROUNDWATER MONITORING ANNUAL REPORT
AMEREN ENERGY RESOURCES
MEREDOSIA POWER STATION
MORGAN COUNTY, ILLINOIS

FIGURE 1-2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



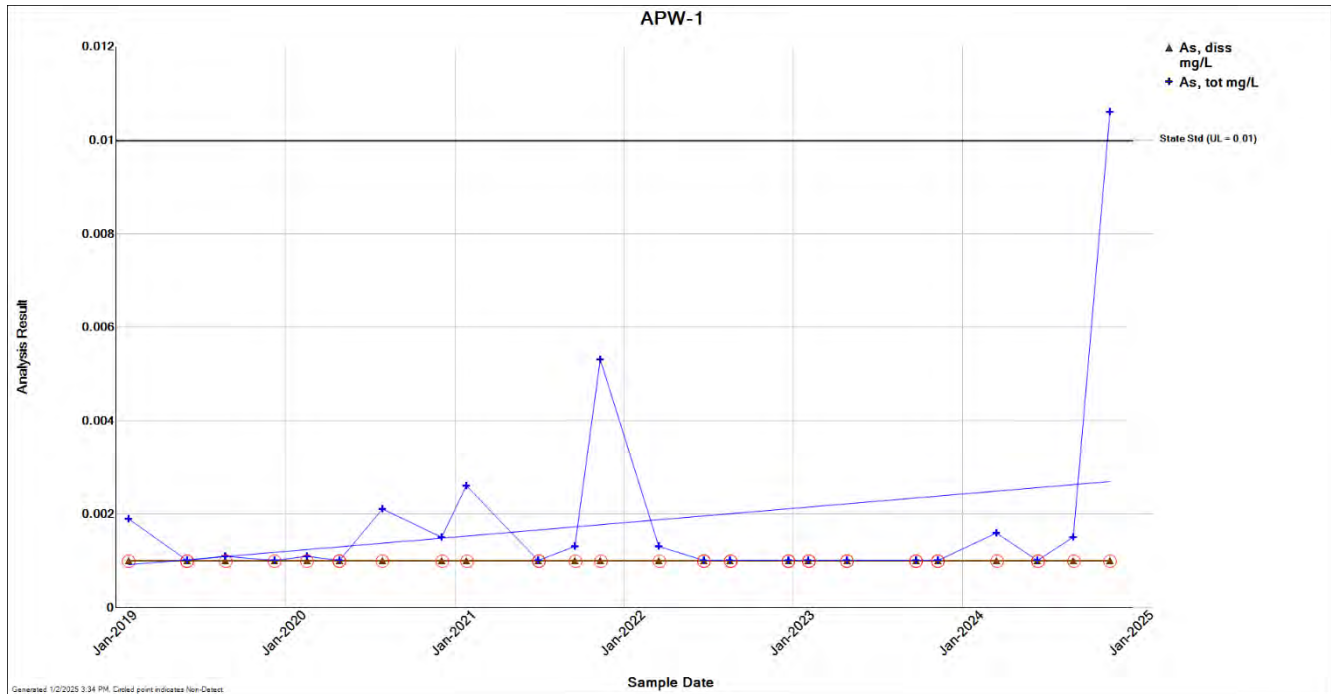


Figure 1-3. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-1

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

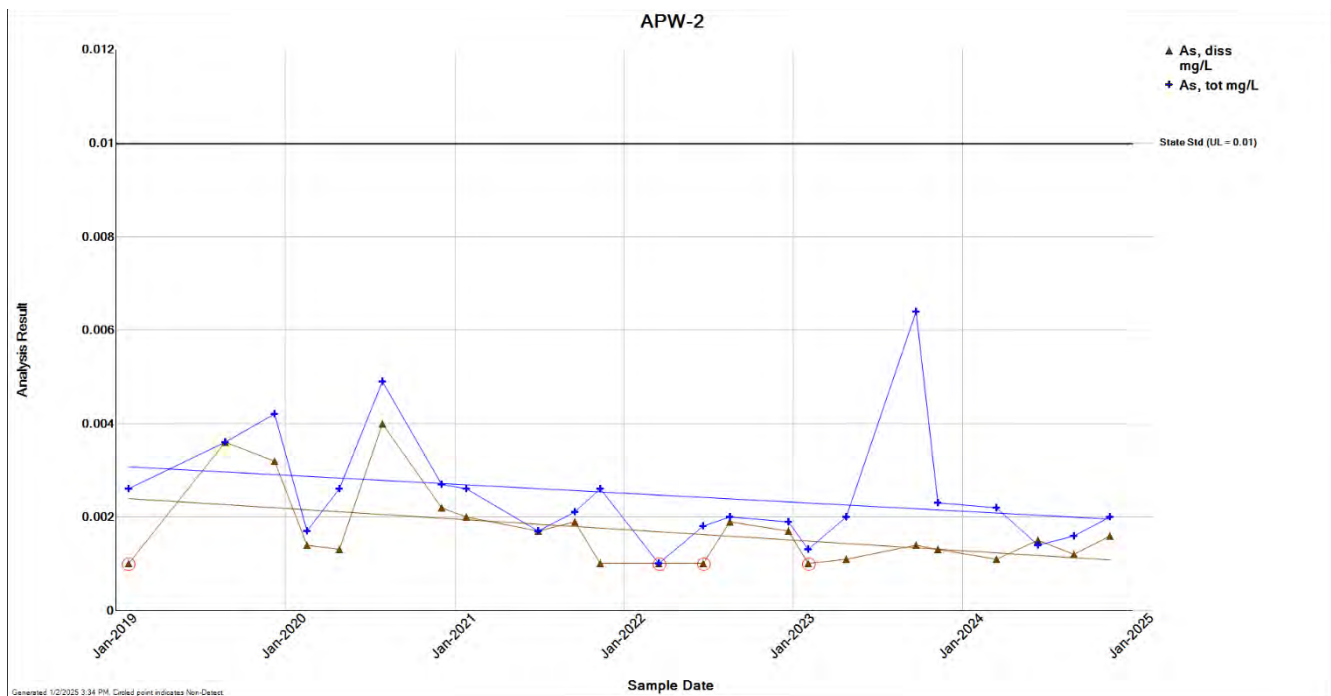


Figure 1-4. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-2

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

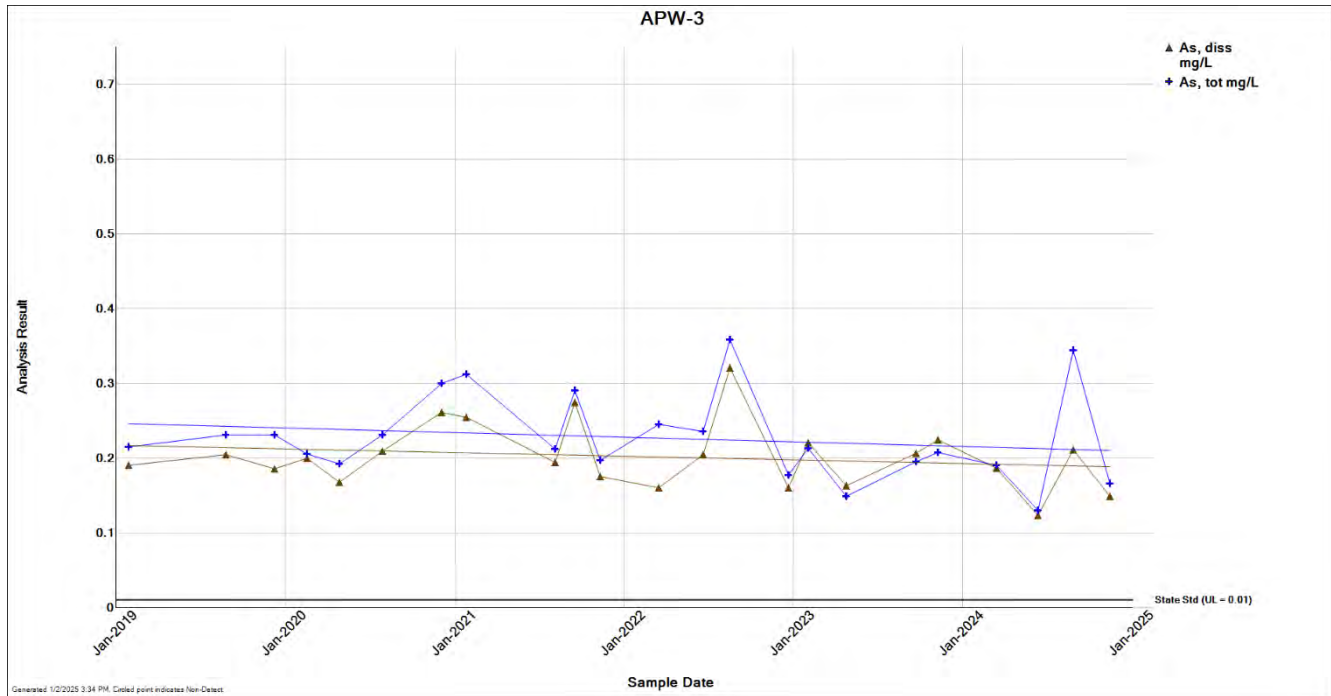


Figure 1-5. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-3

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

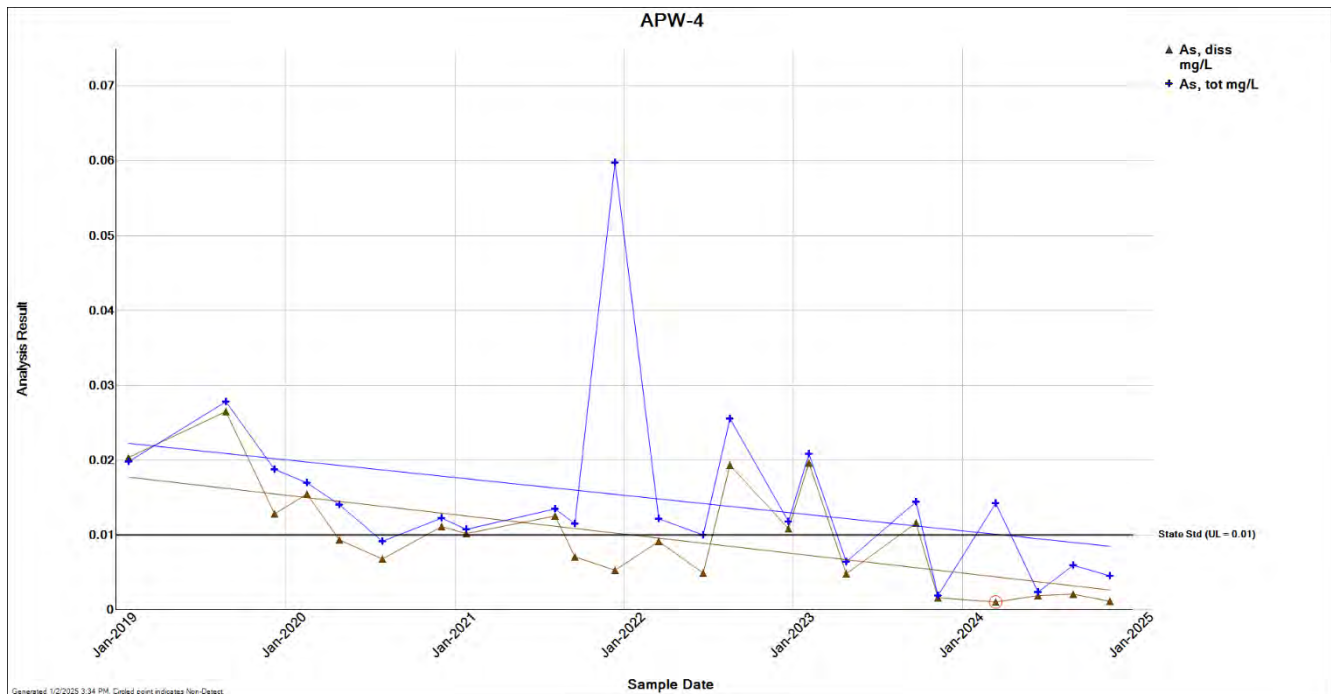


Figure 1-6. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-4

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

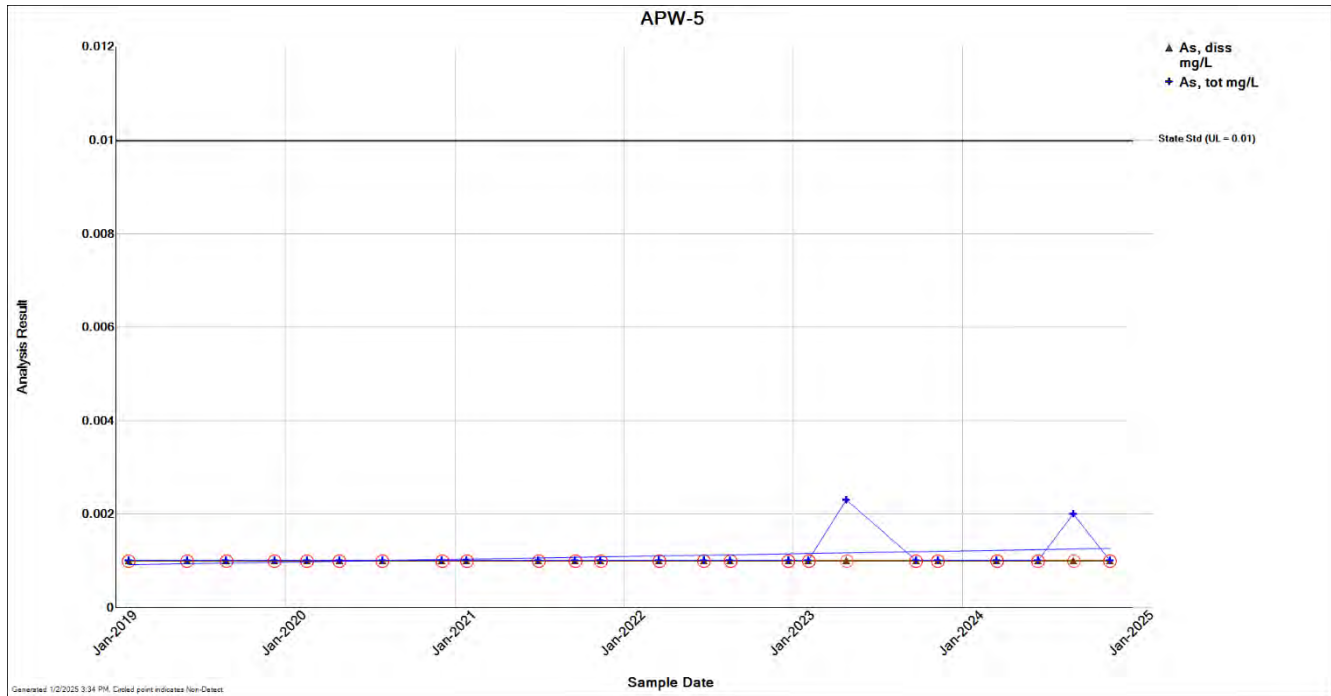


Figure 1-7. Arsenic (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-5

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

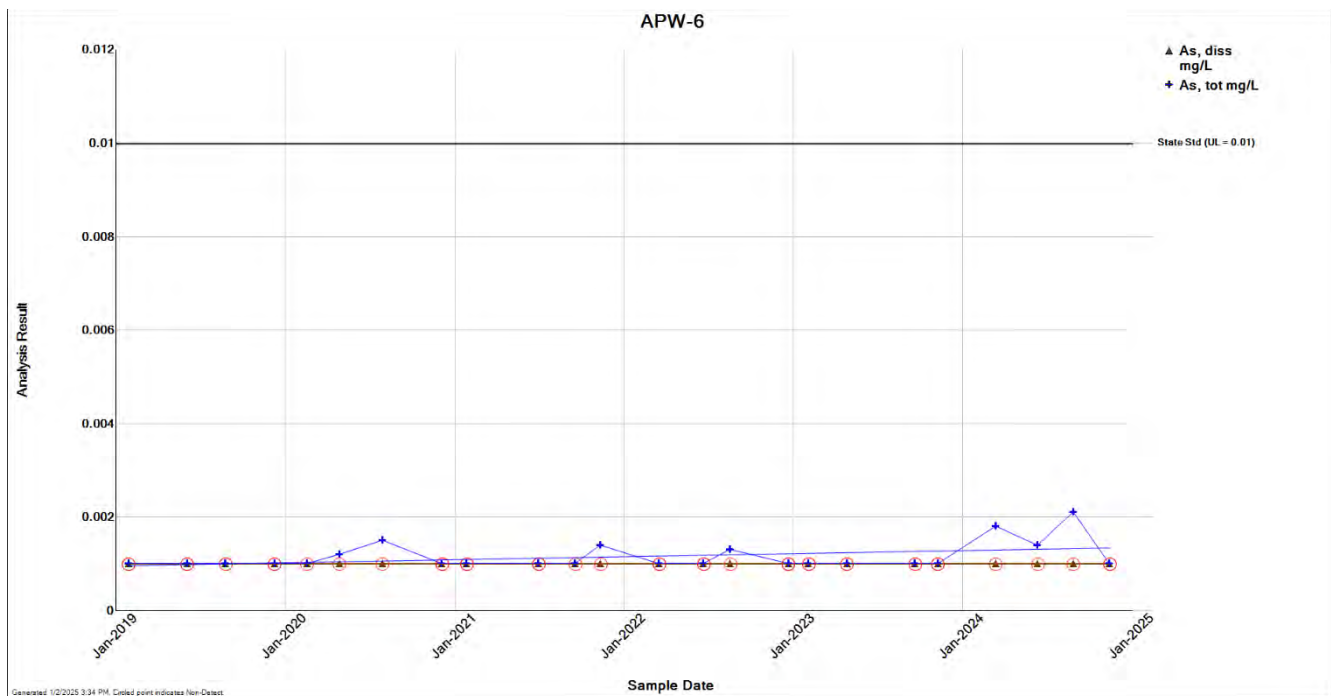


Figure 1-8. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-6

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

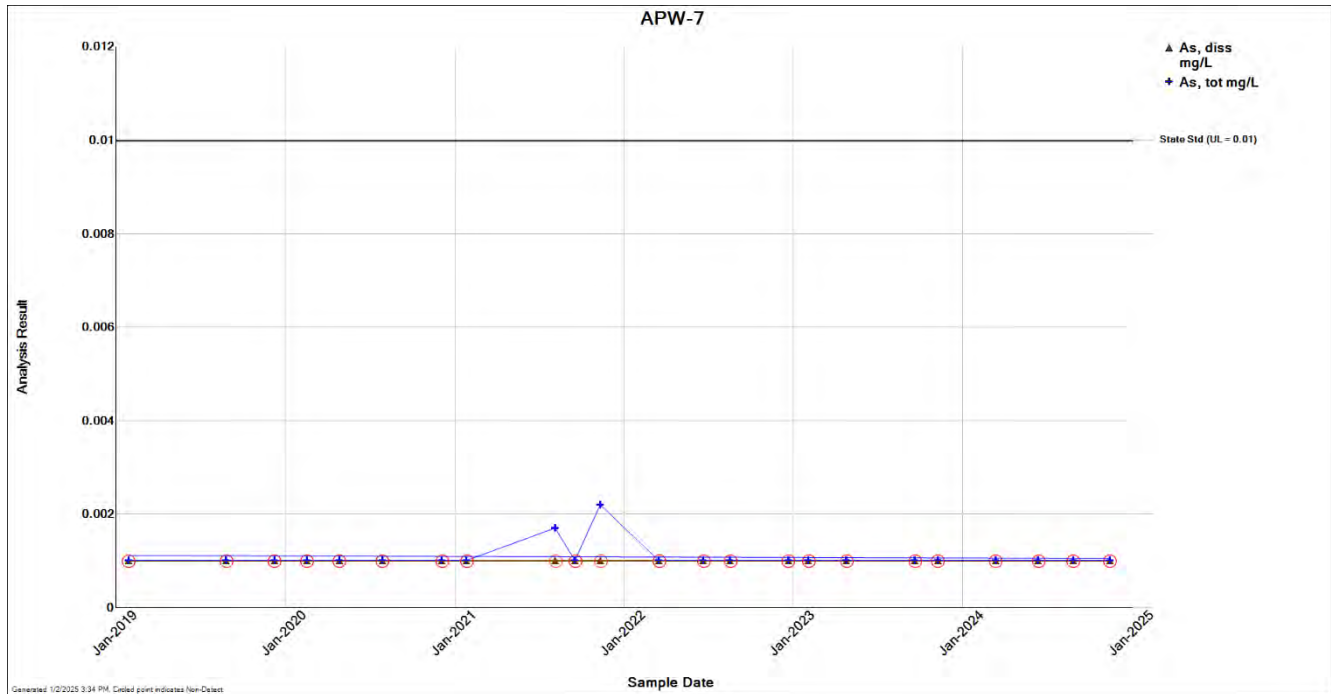


Figure 1-9. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-7

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

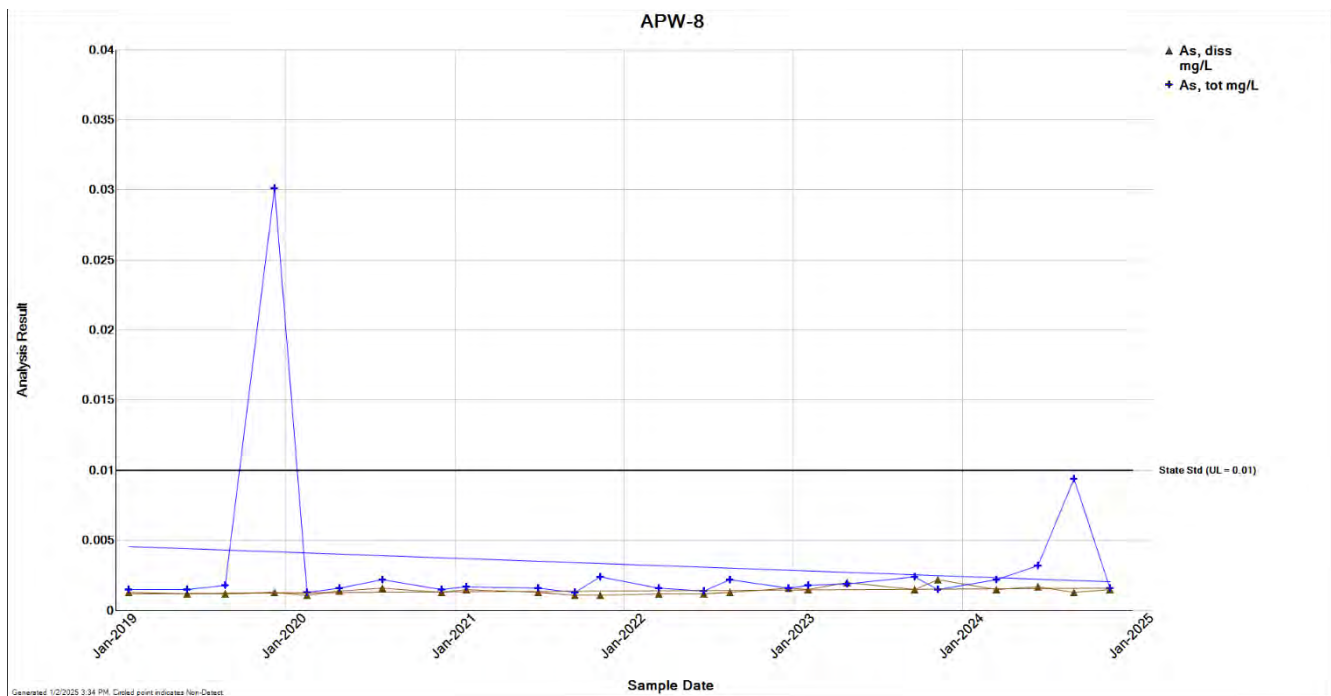


Figure 1-10. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-8

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

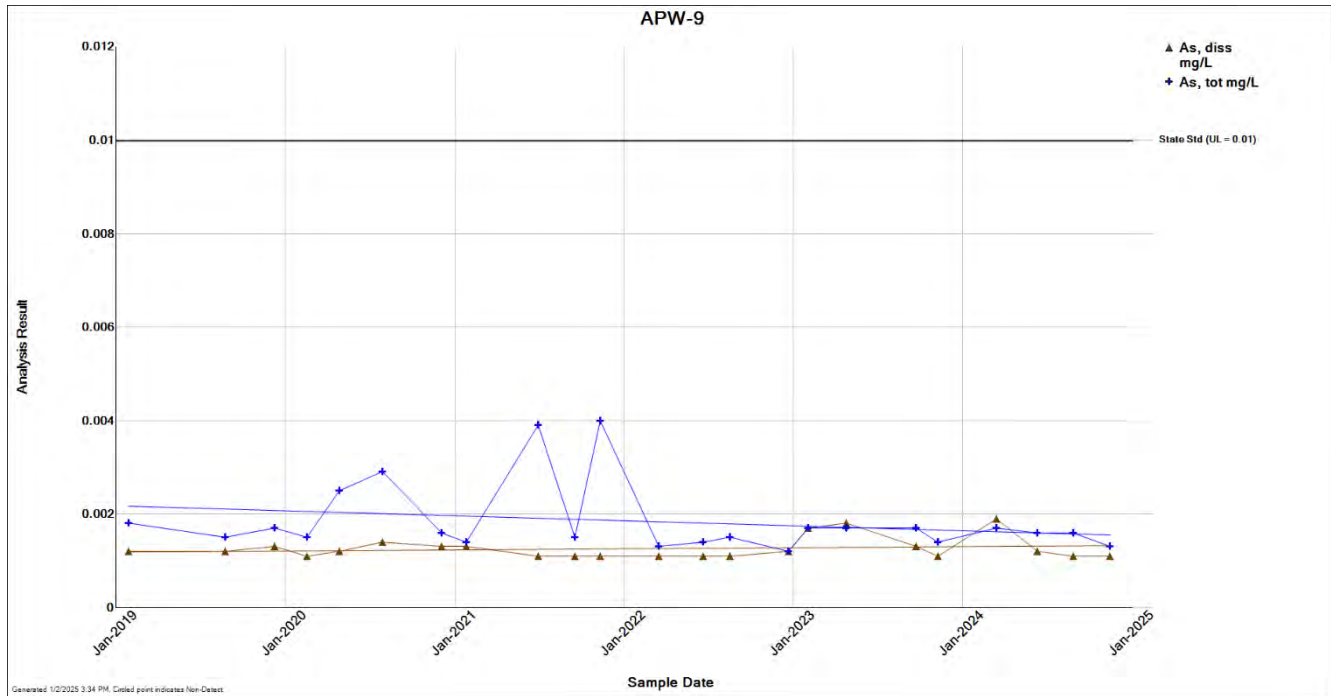


Figure 1-11. Arsenic (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-9

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

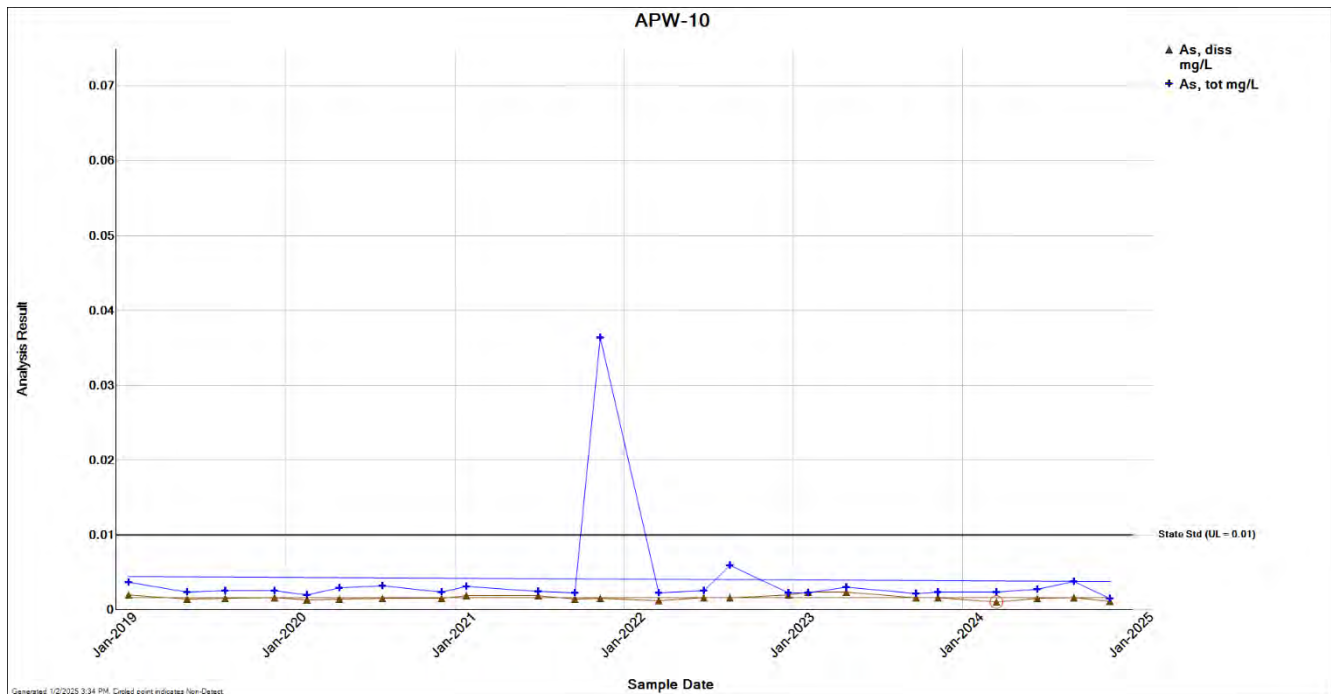
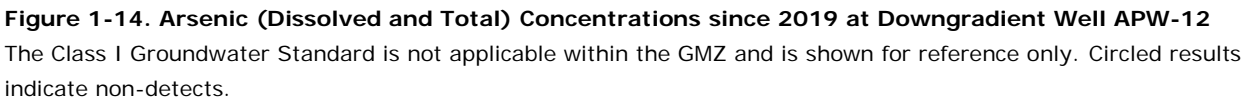
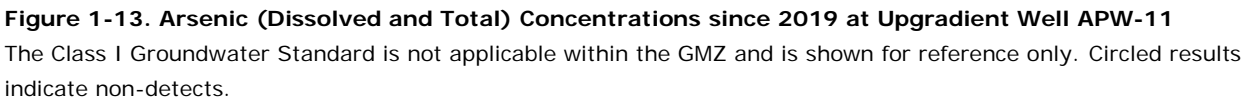


Figure 1-12. Arsenic (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-10

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



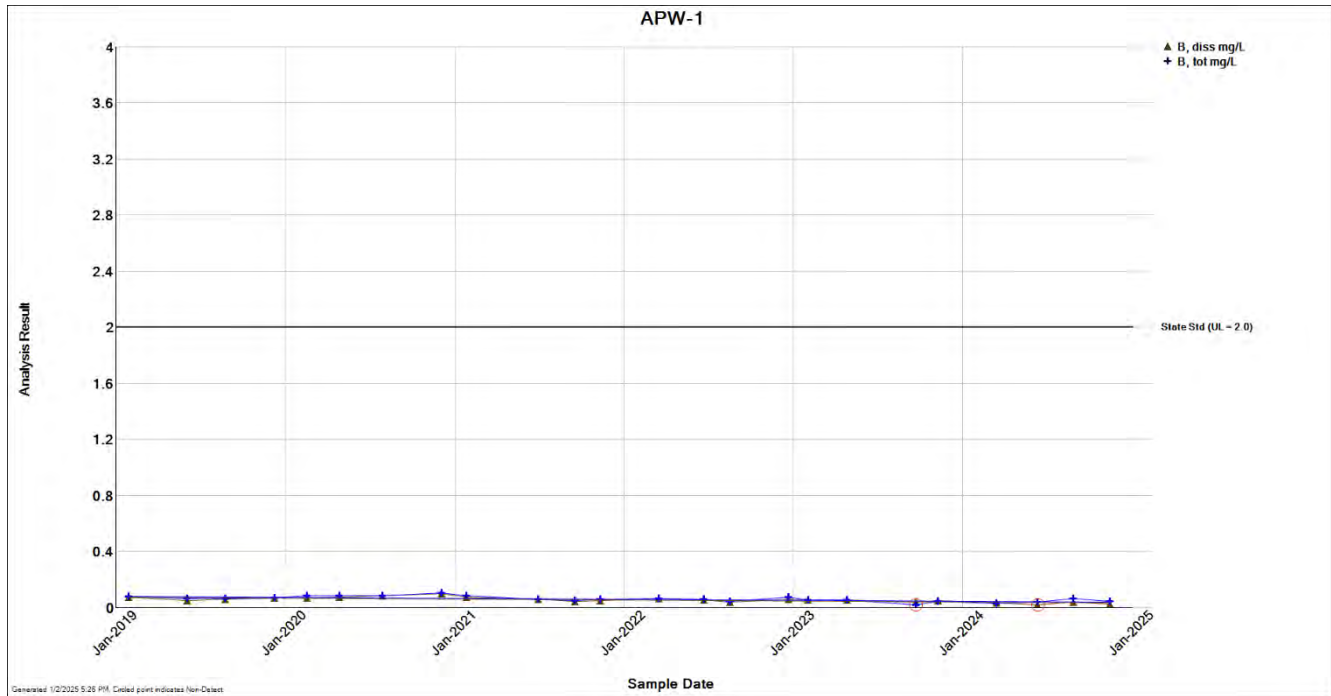


Figure 1-15. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-1

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

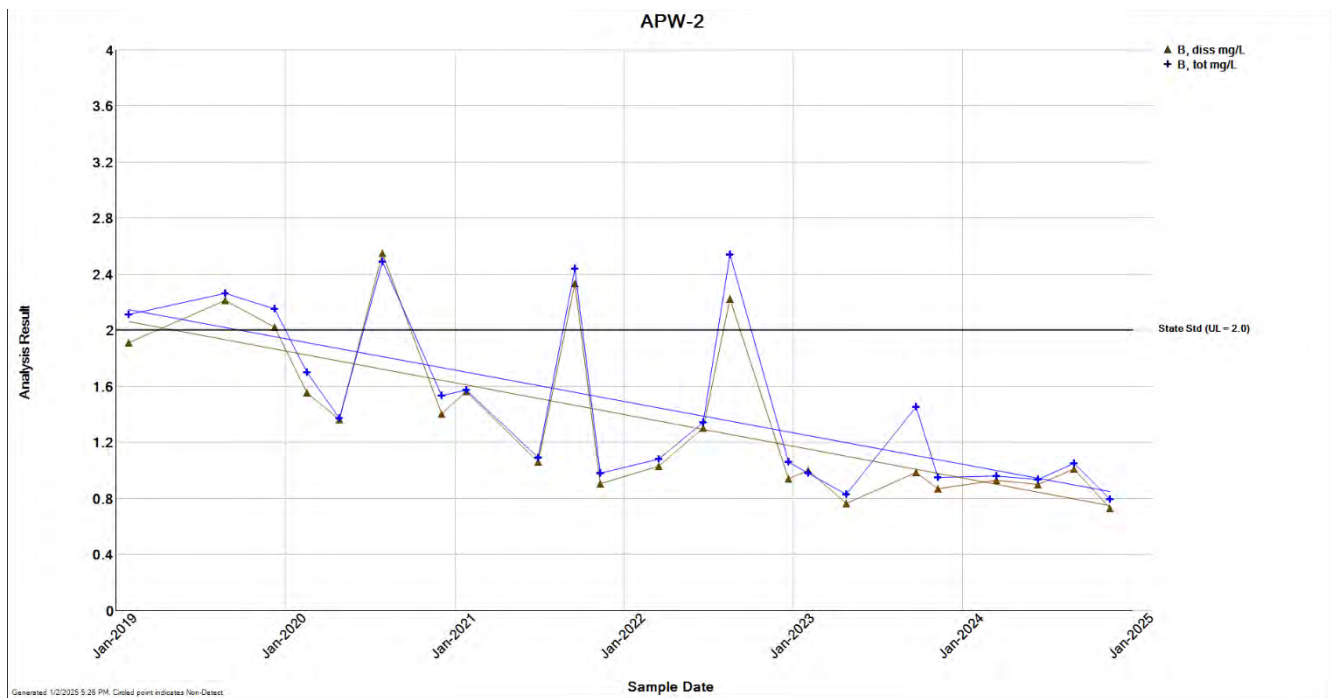


Figure 1-16. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-2

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

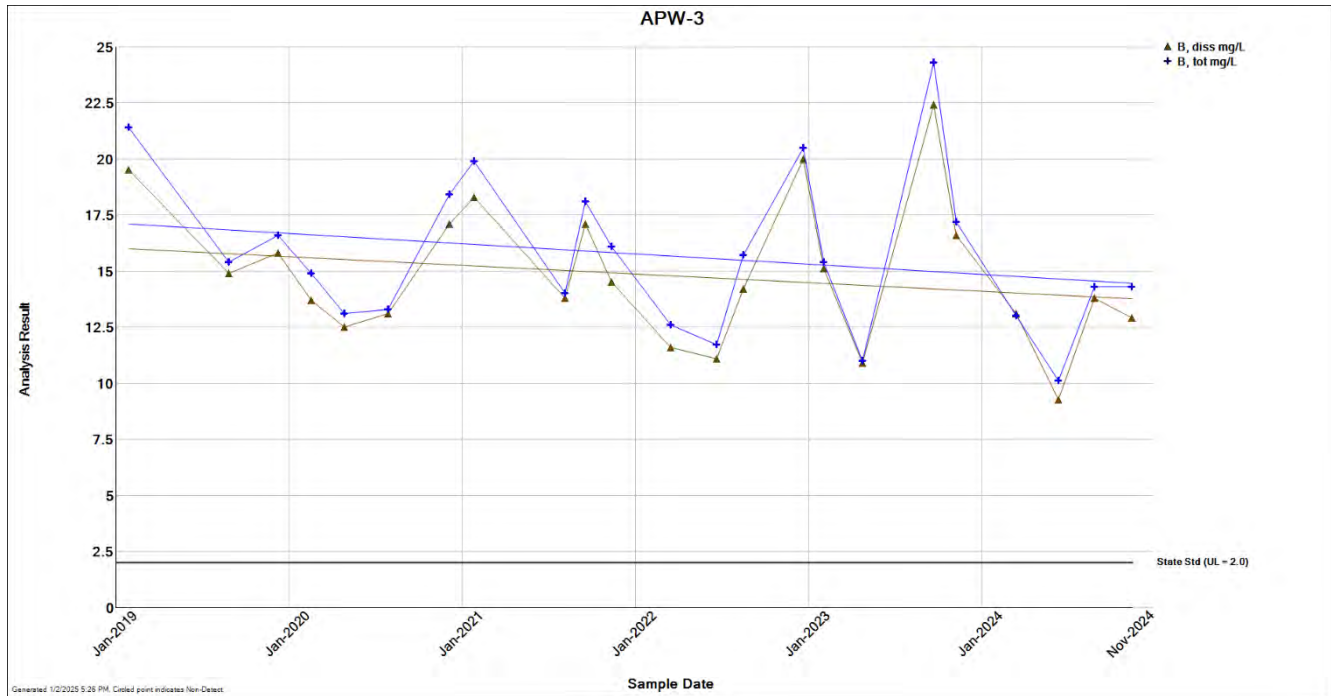


Figure 1-17. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-3

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

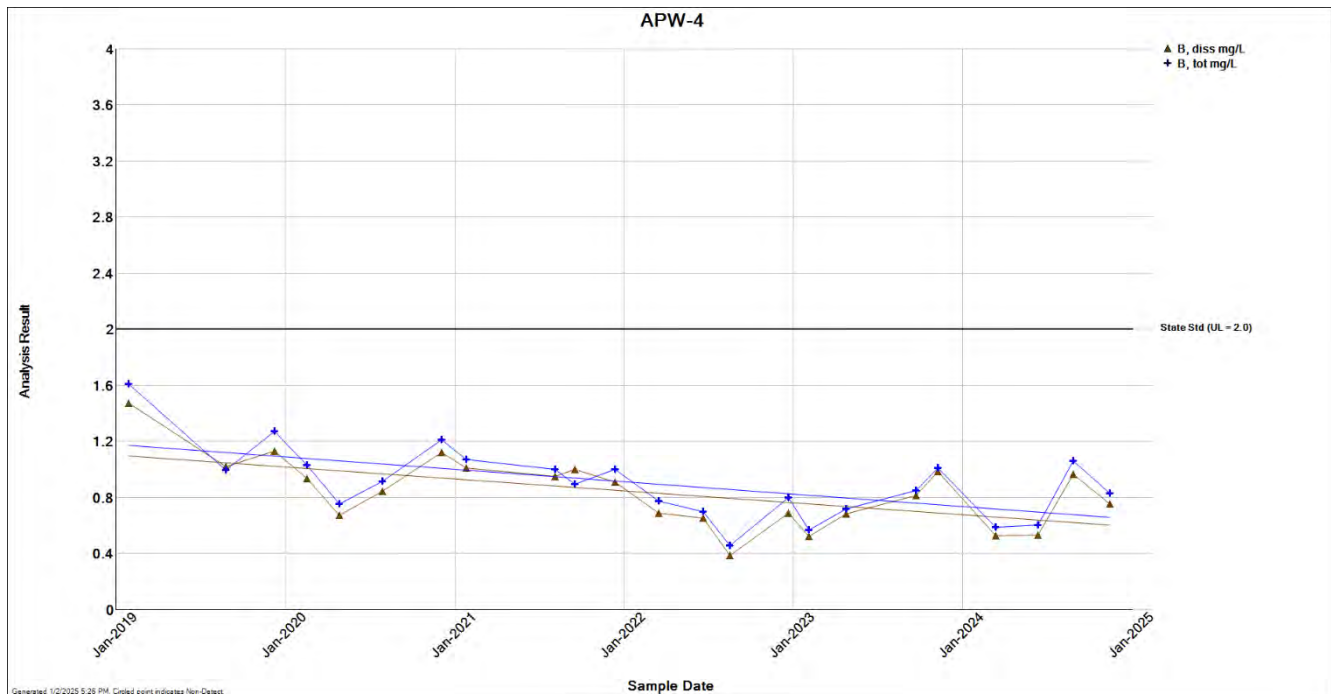


Figure 1-18. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-4

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

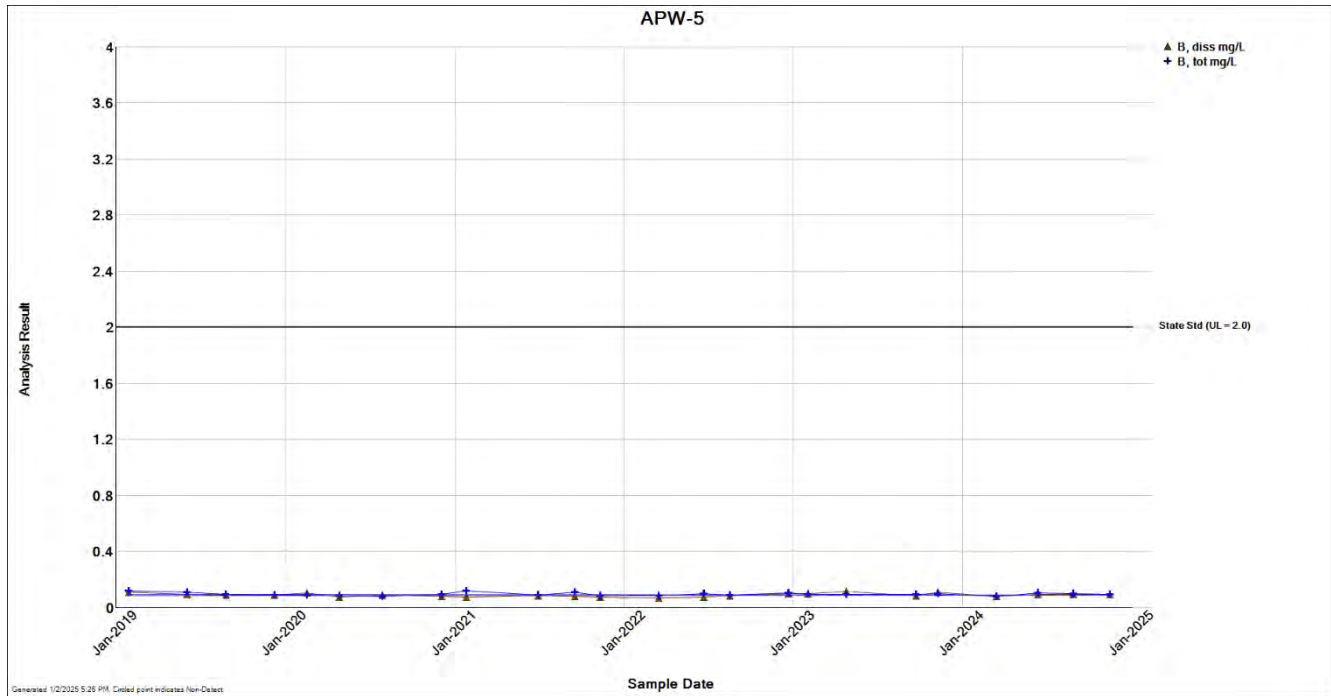


Figure 1-19. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-5

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

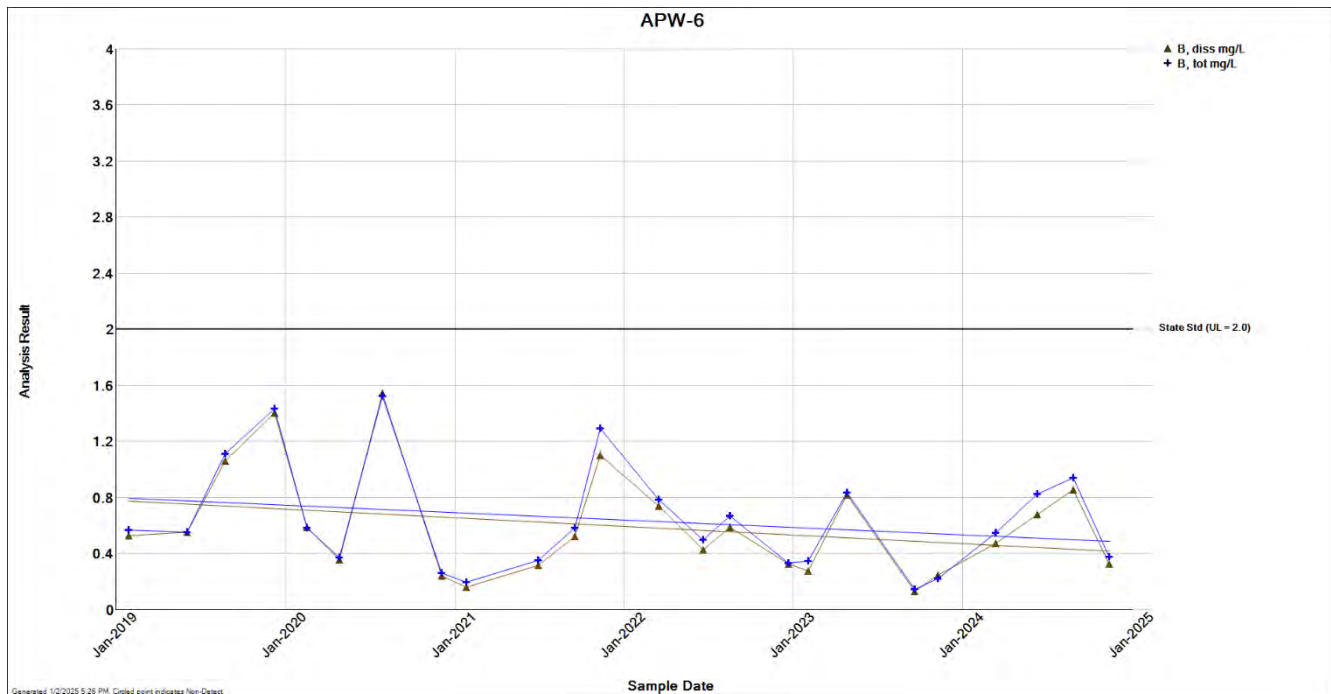


Figure 1-20. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-6

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

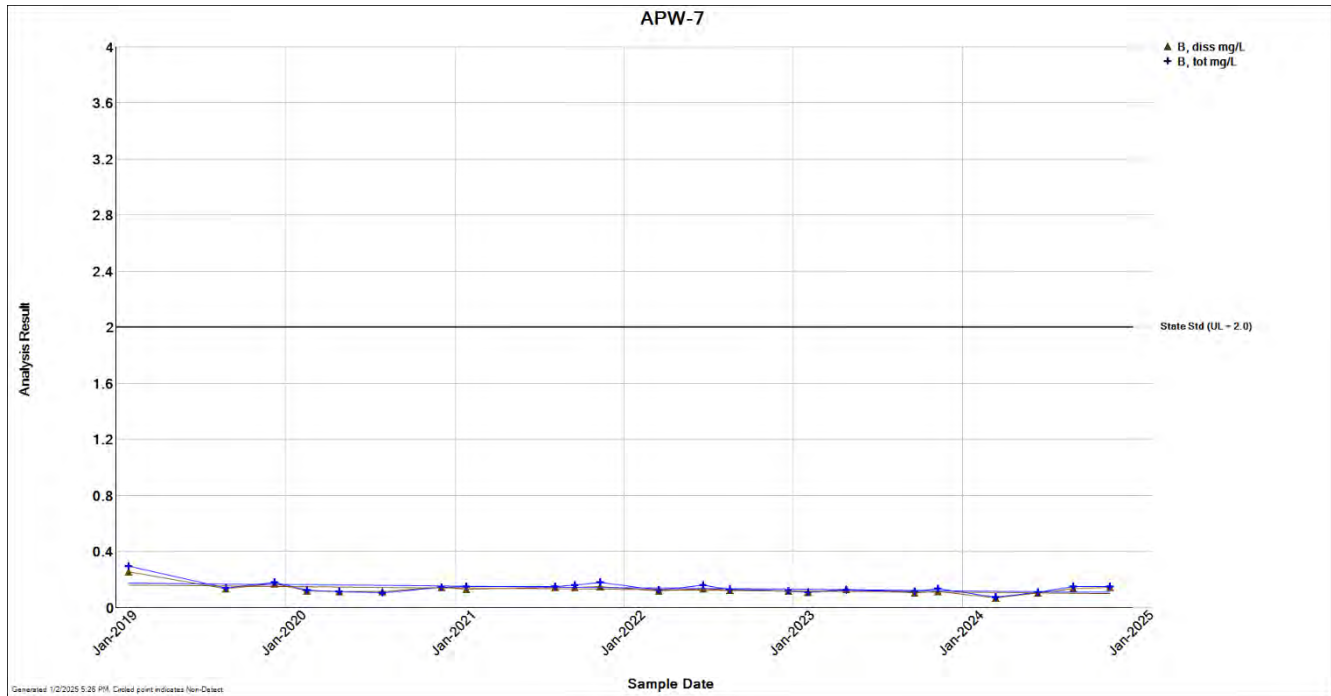


Figure 1-21. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-7

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

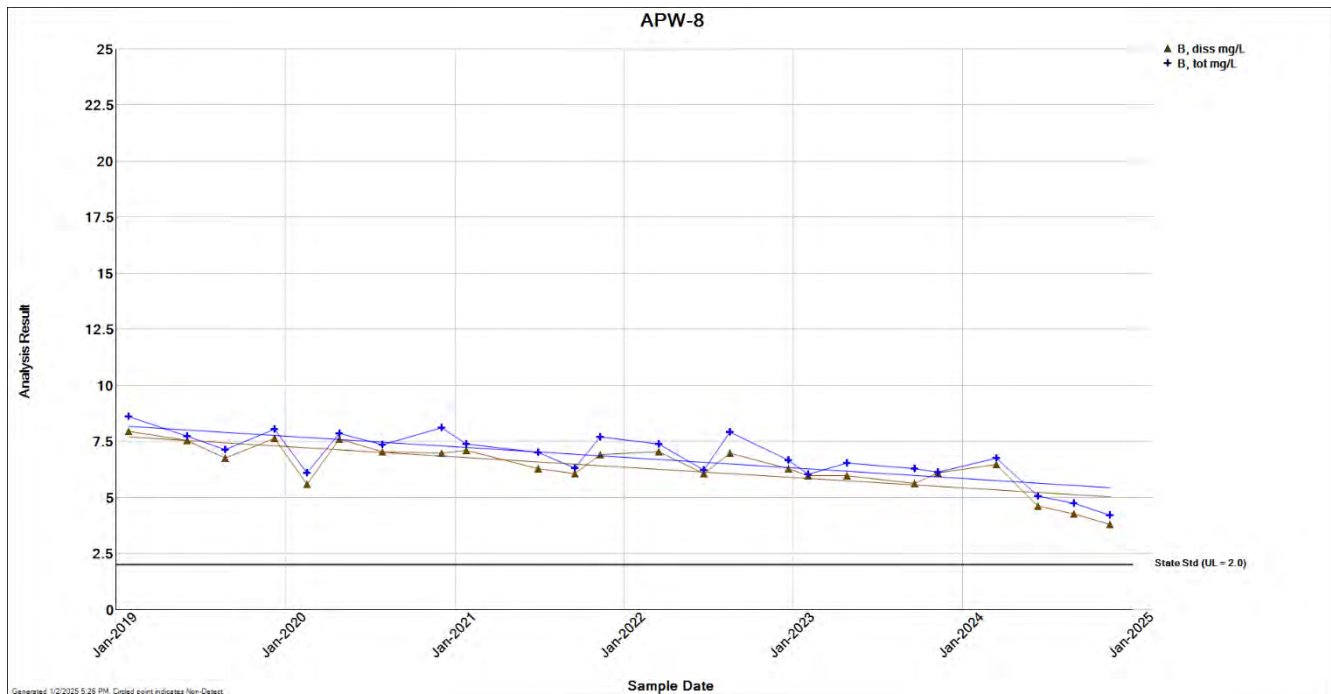


Figure 1-22. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-8

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

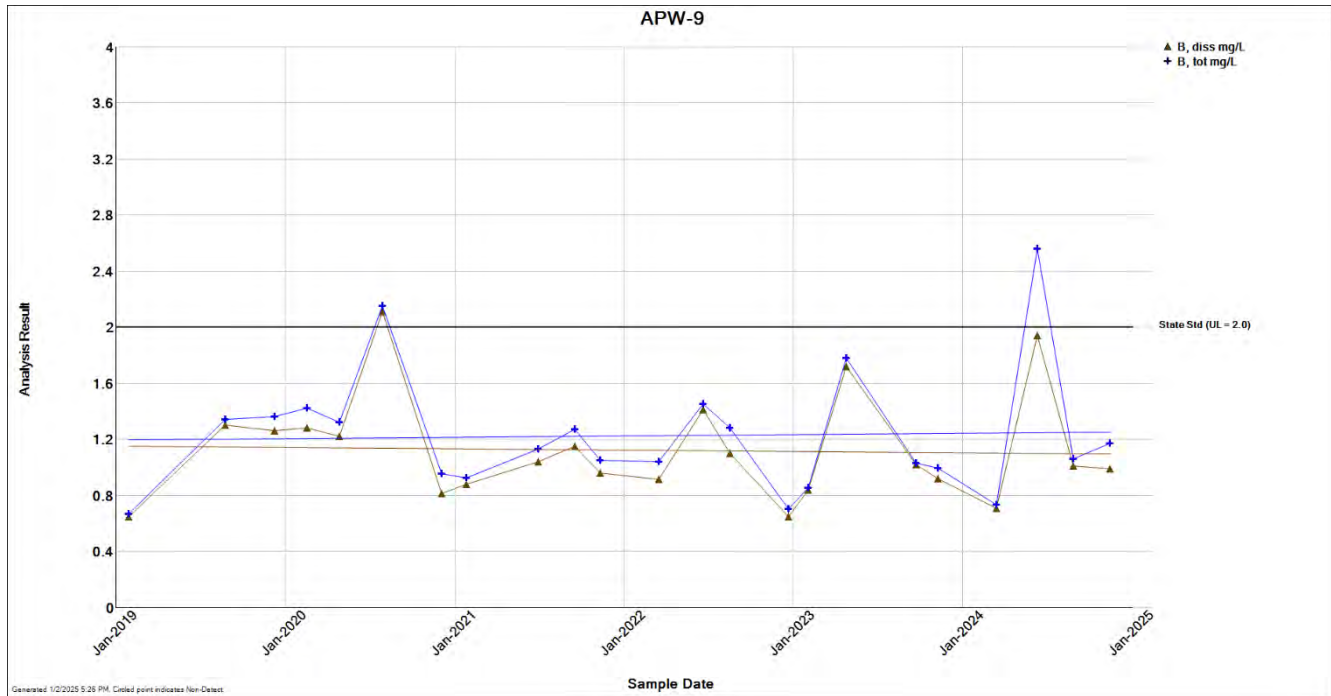


Figure 1-23. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-9

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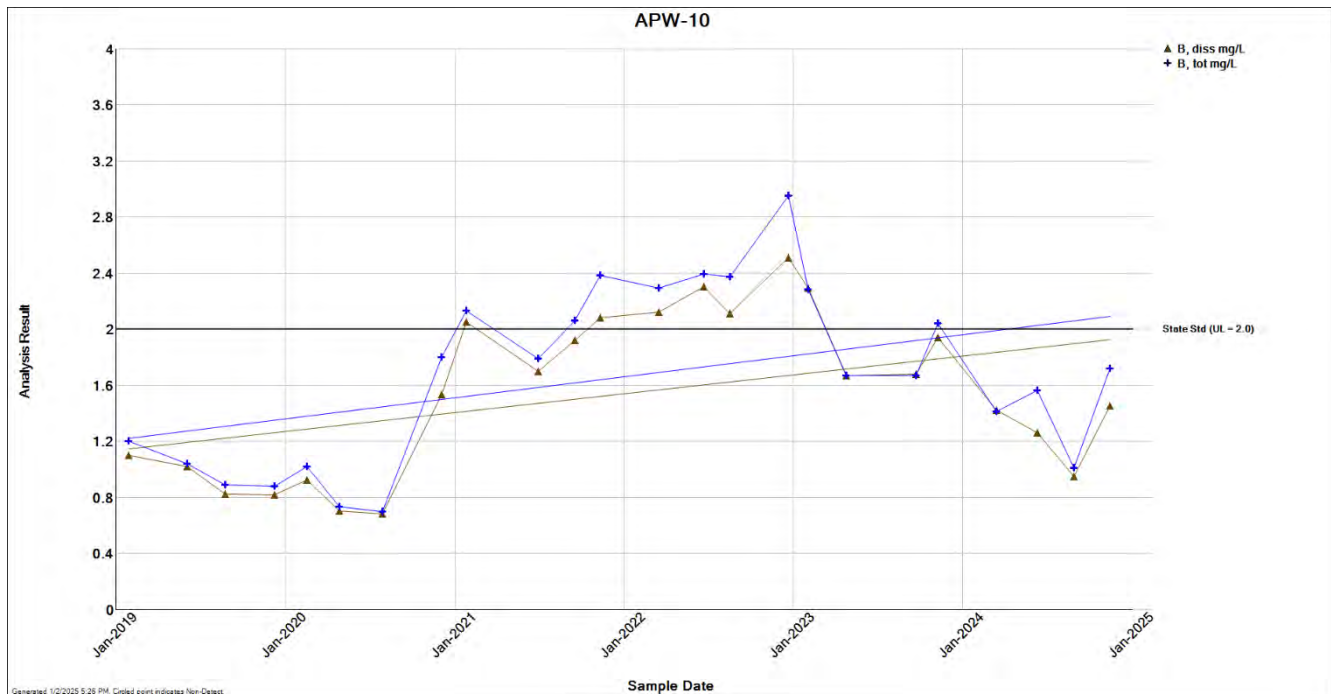


Figure 1-24. Boron (Dissolved and Total) Concentrations since 2019 at Midgradient Well APW-10

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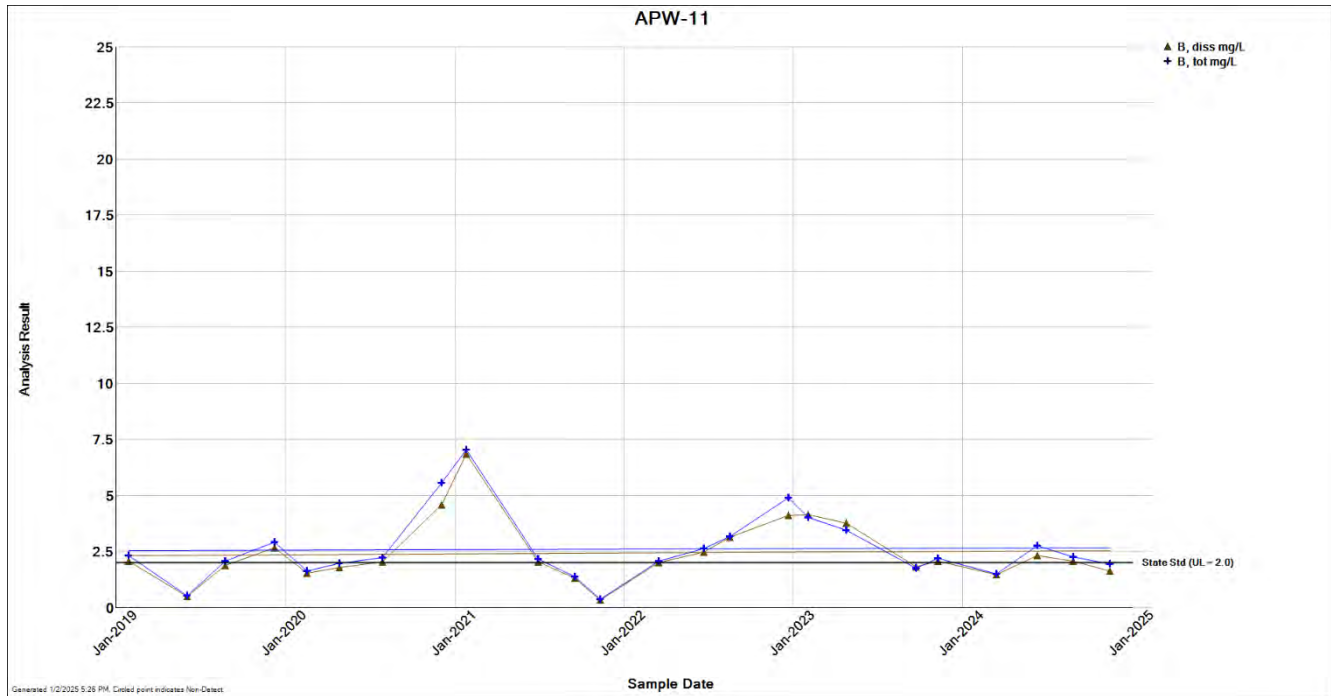


Figure 1-25. Boron (Dissolved and Total) Concentrations since 2019 at Upgradient Well APW-11

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

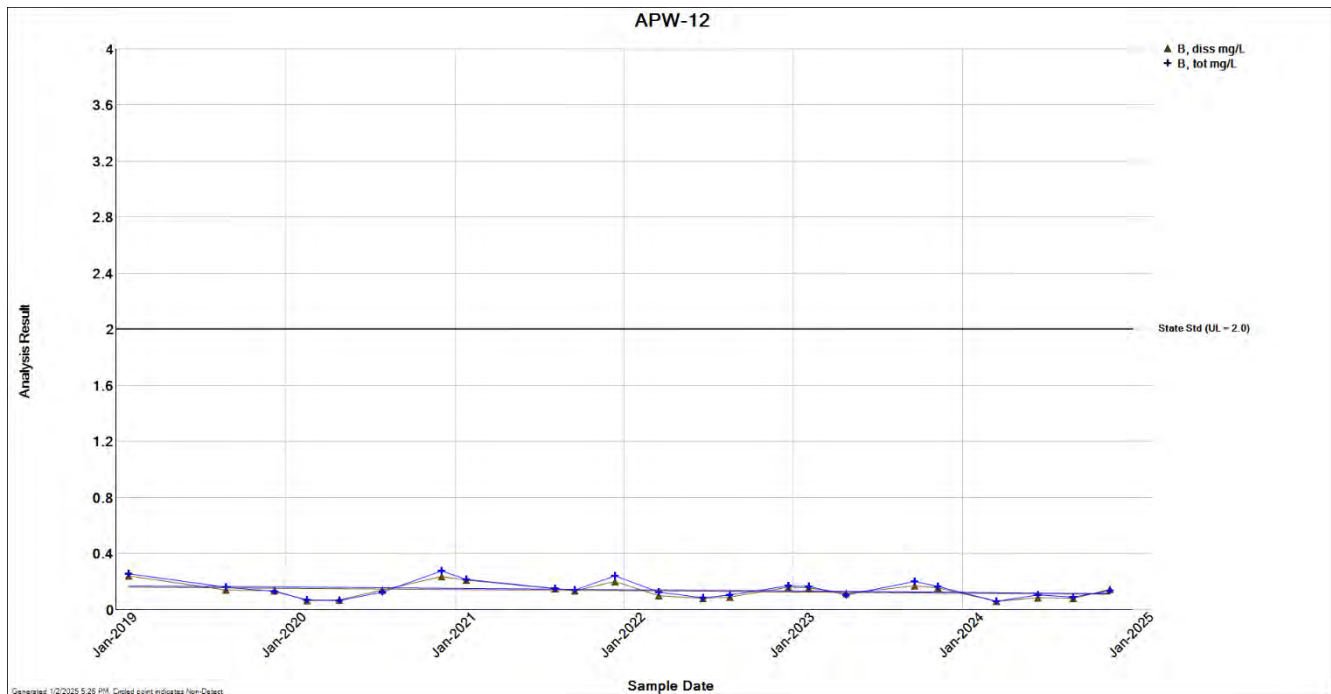
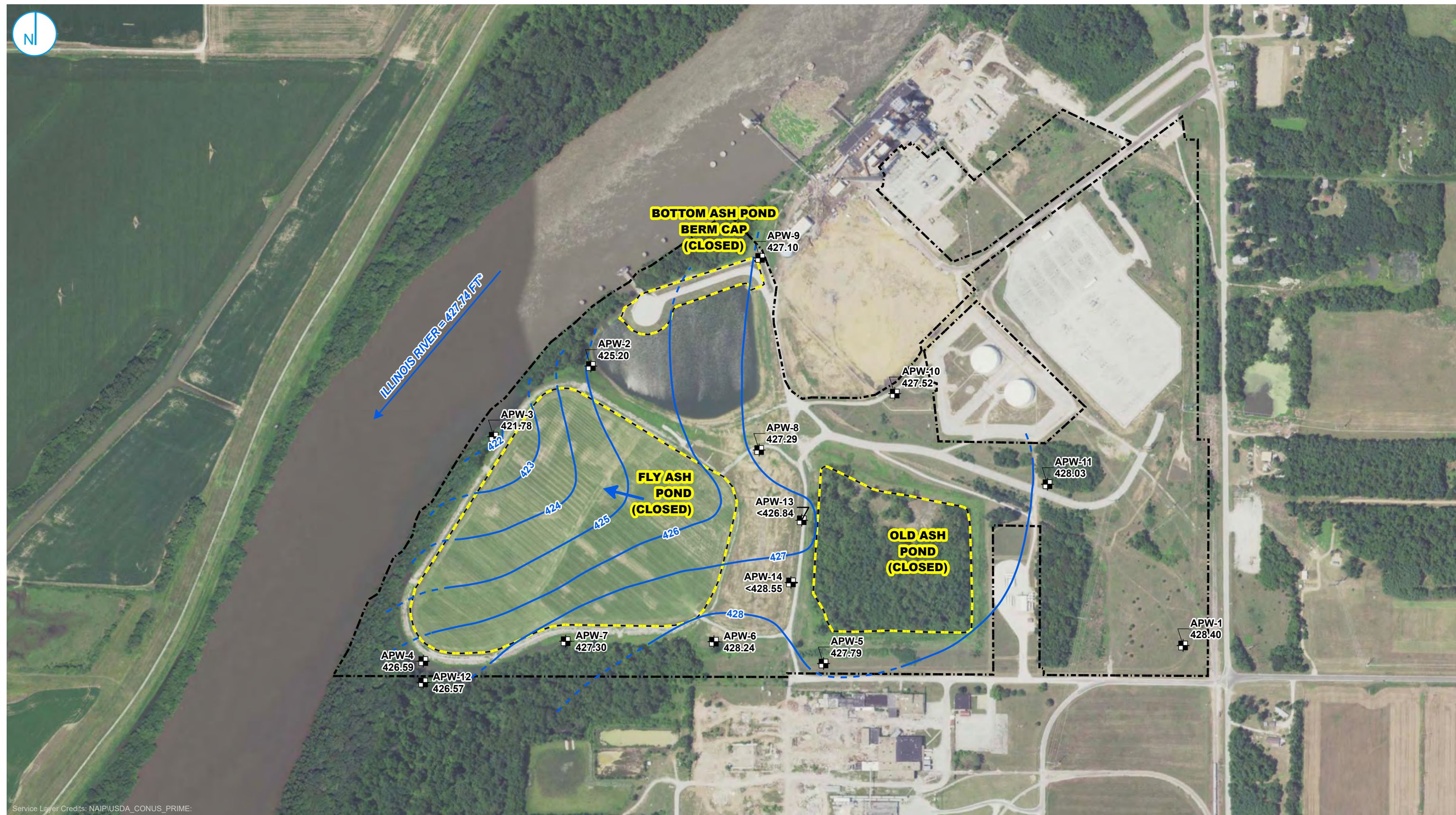


Figure 1-26. Boron (Dissolved and Total) Concentrations since 2019 at Downgradient Well APW-12

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



- 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 NAVD88 at the time of this drawing.
NAVD88 = North American Vertical Datum of 1988

0 240 480 Feet

POTENTIOMETRIC SURFACE MAP - MARCH 12-14, 2024

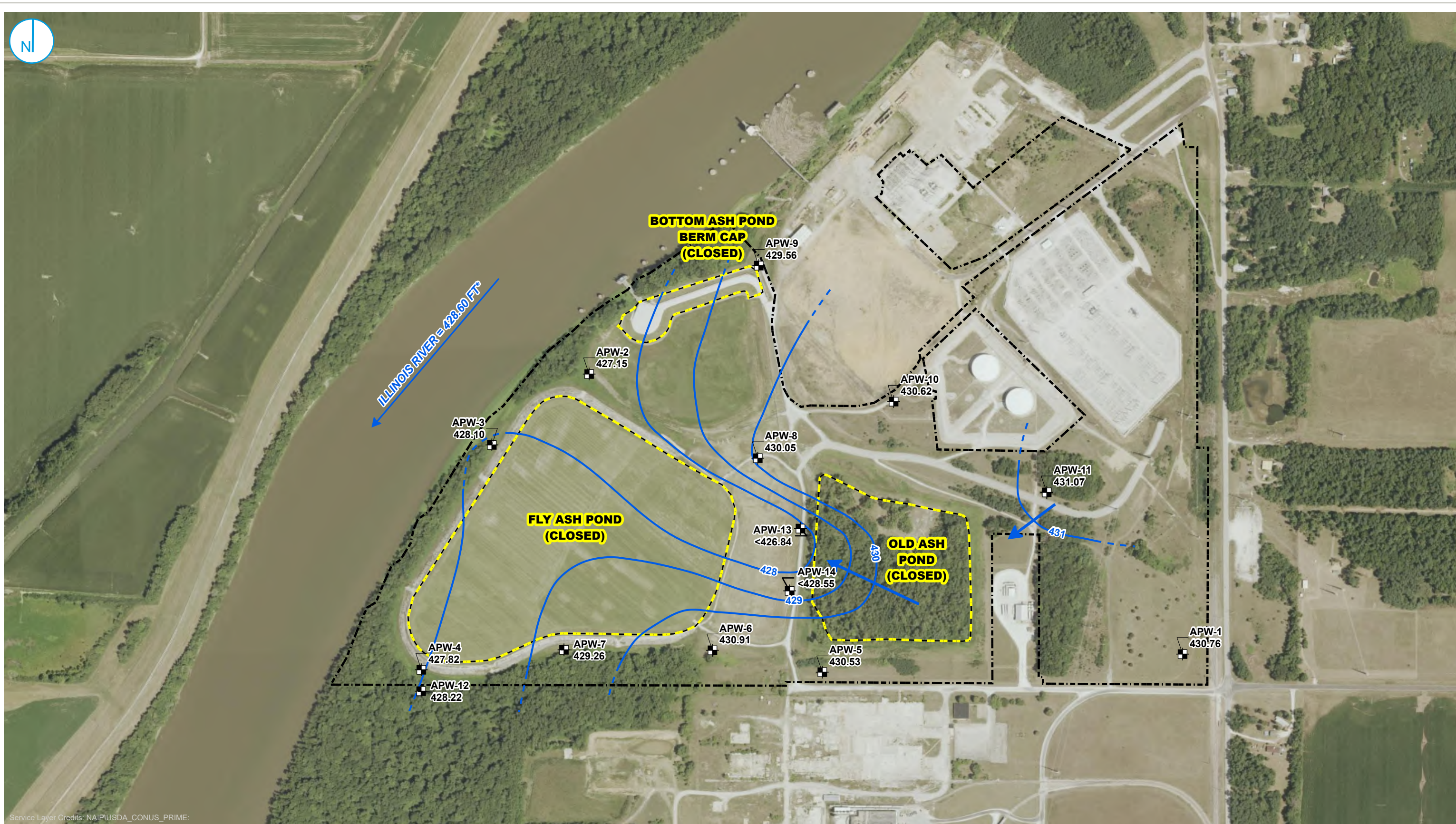
NOTE
Base map property lines were updated based on March 2019 Plat of Survey. Substantial rain increased the elevation of the river by approximately 1 ft between 3/12-3/14. Given this event, the average elevation of the river on 3/13 was used.

2024 GROUNDWATER MONITORING ANNUAL REPORT
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MEREDOSIA POWER STATION
MORGAN COUNTY, ILLINOIS

FIGURE 3-1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- 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 NAVD88 at the time of this drawing.
NAVD88 = North American Vertical Datum of 1988

NOTE
Base map property lines were updated based on March 2019 Plat of Survey.
River elevation from June 11, 2024 at 12:00 was used.

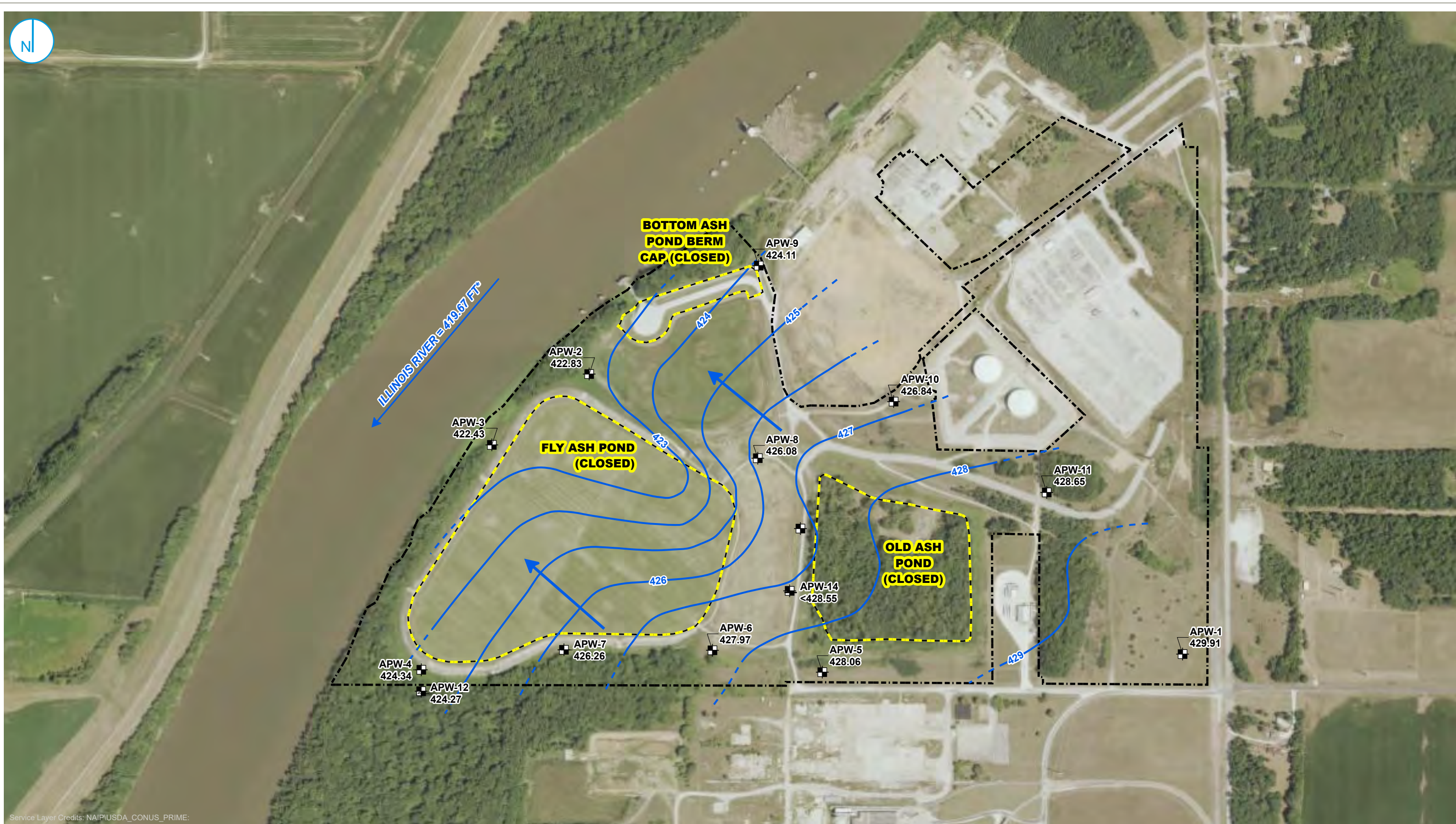
POTENTIOMETRIC SURFACE MAP - JUNE 10-12, 2024

2024 GROUNDWATER MONITORING ANNUAL REPORT
AMEREN ENERGY RESOURCES
MEREDOSIA POWER STATION
MORGAN COUNTY, ILLINOIS

FIGURE 3-2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





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

- 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 NAVD88 at the time of this drawing.
NAVD88 = North American Vertical Datum of 1988

NOTE
Base map property lines were updated based on March 2019 Plat of Survey.
River elevation from August 27, 2024 at 12:00 was used.

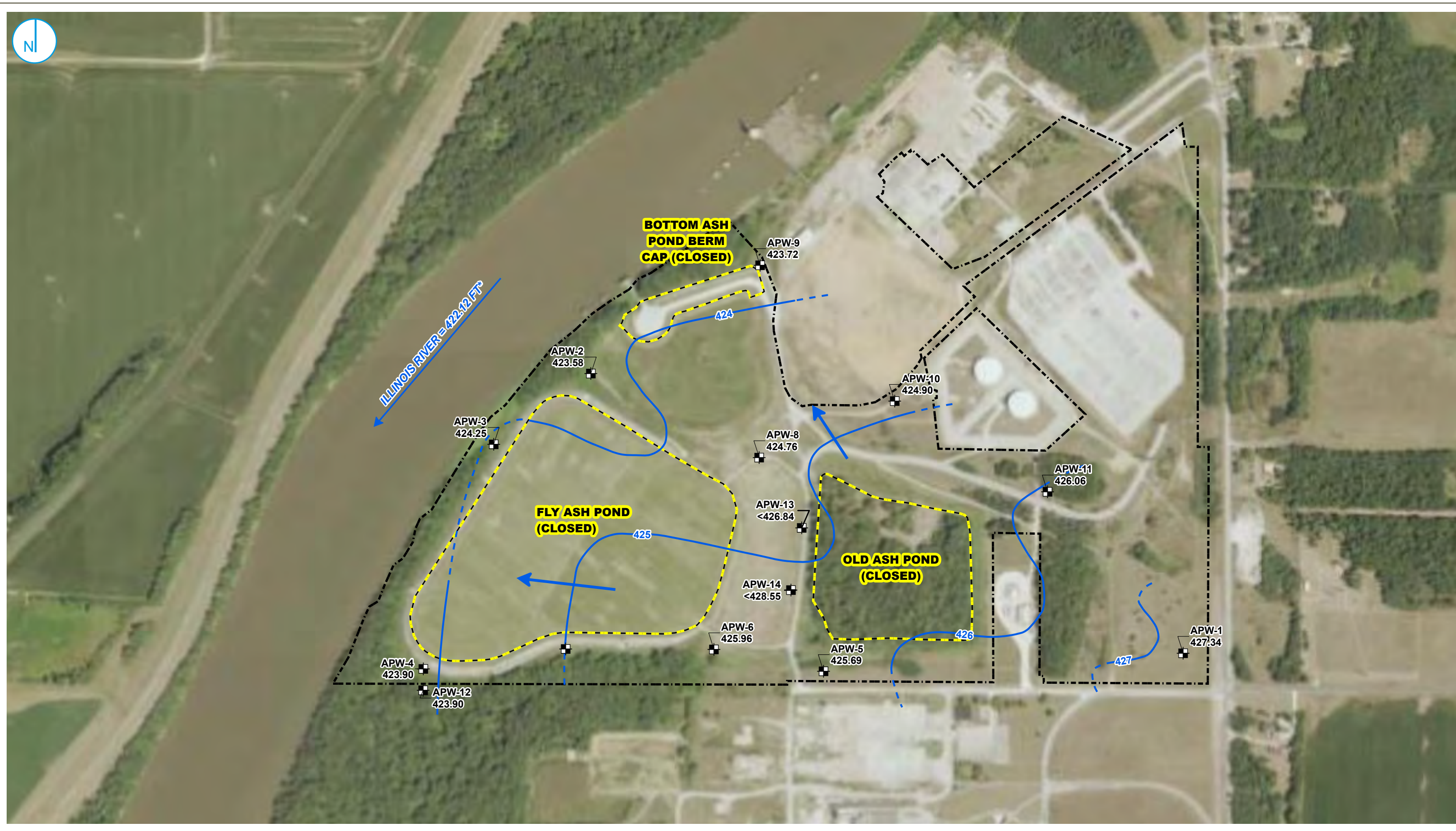
POTENTIOMETRIC SURFACE MAP - AUGUST 26-28, 2024

2024 GROUNDWATER MONITORING ANNUAL REPORT
AMEREN ENERGY RESOURCES
MEREDOSIA POWER STATION
MORGAN COUNTY, ILLINOIS

FIGURE 3-3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





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

- 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 NAVD88 at the time of this drawing.
NAVD88 = North American Vertical Datum of 1988

NOTE
Base map property lines were updated based on March 2019 Plat of Survey.
River elevation from November 14, 2024 at 12:00 was used.

POTENTIOMETRIC SURFACE MAP - NOVEMBER 13-14, 2024

2024 GROUNDWATER MONITORING ANNUAL REPORT
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MEREDOSIA POWER STATION
MORGAN COUNTY, ILLINOIS

FIGURE 3-4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



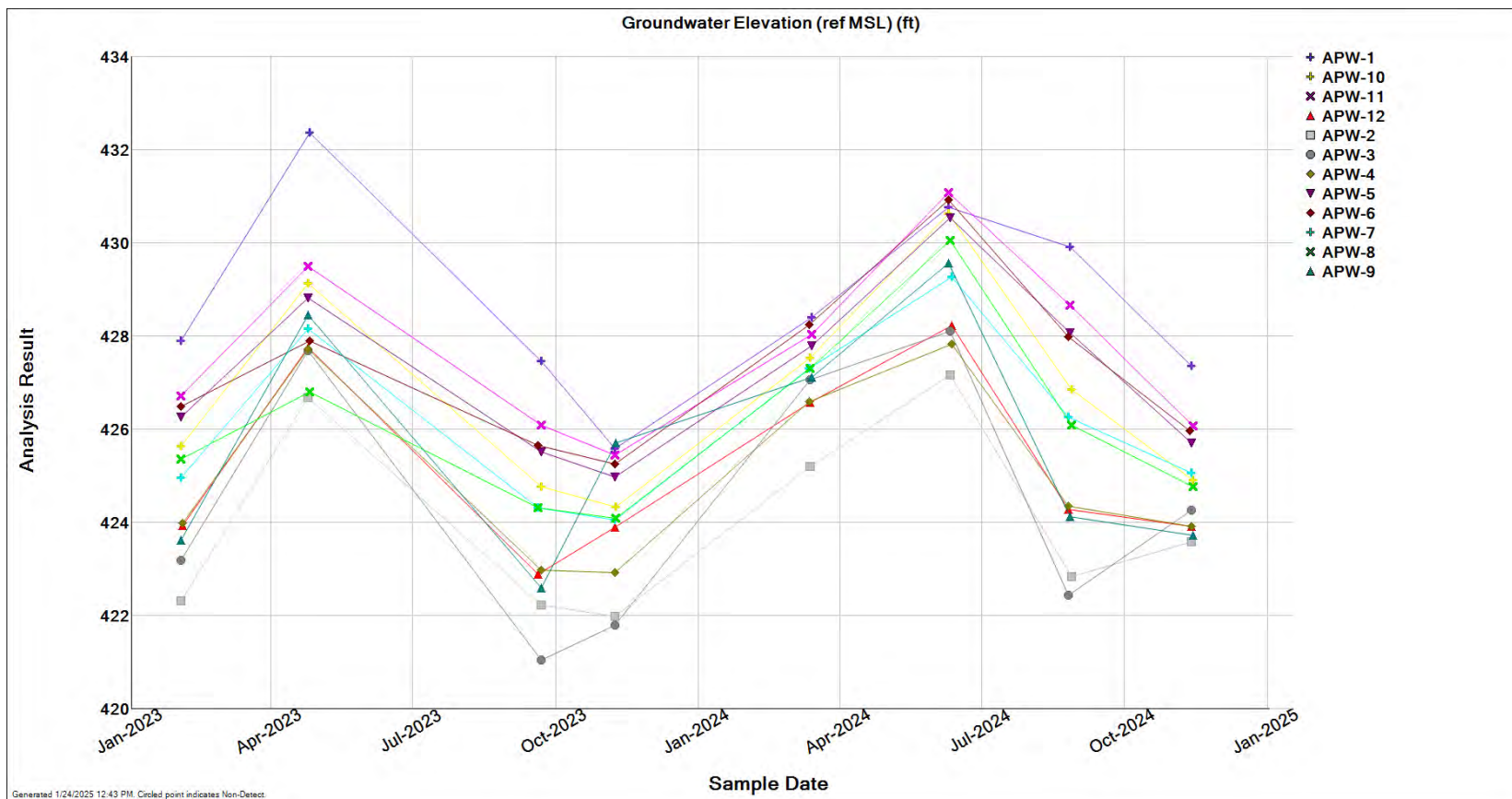


Figure 3-5. Groundwater Elevations Timeseries Plot



USGS 05585500 ILLINOIS RIVER AT MEREDOSIA, IL

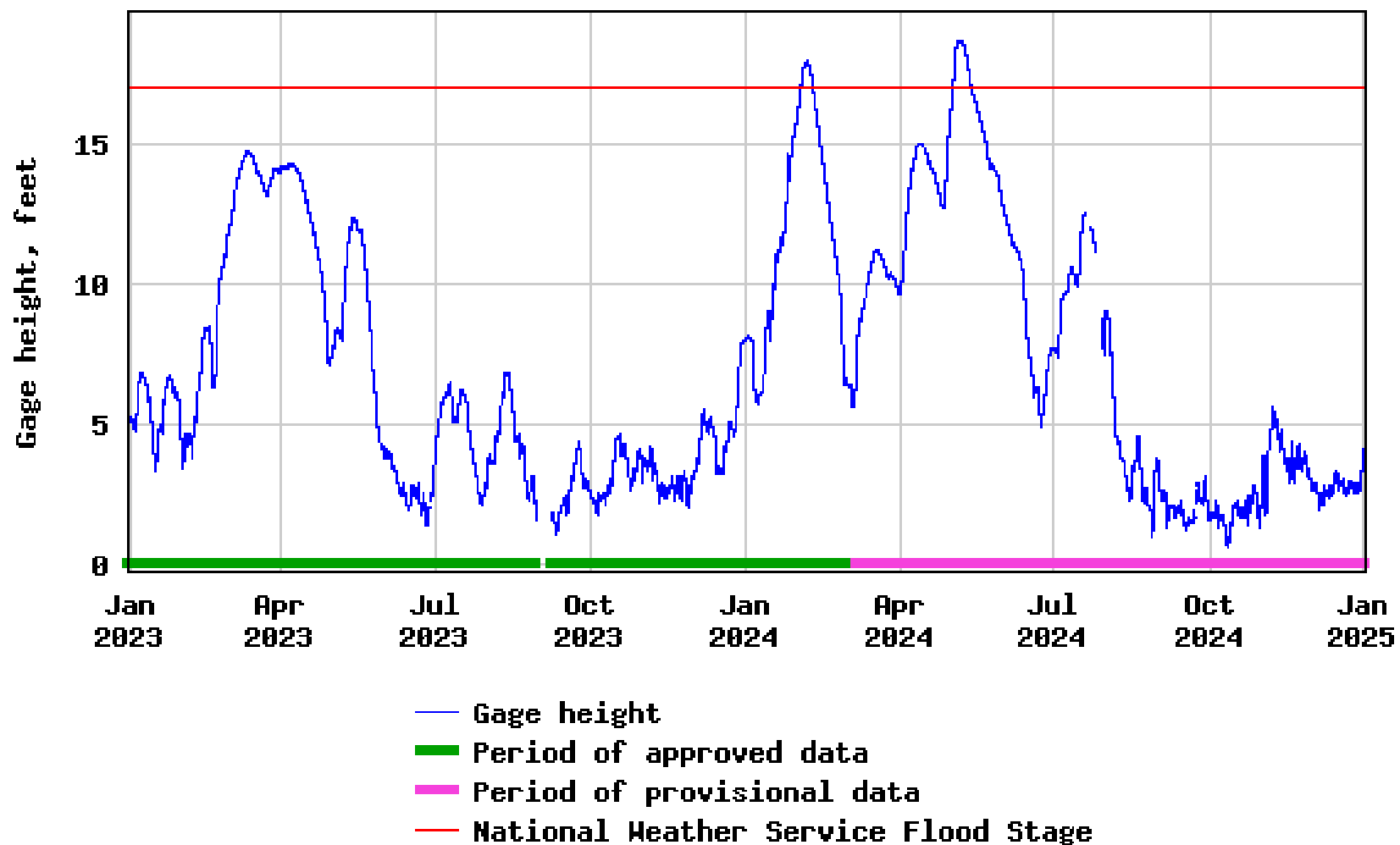


Figure 3-6. Illinois River Stage (2023-2024)

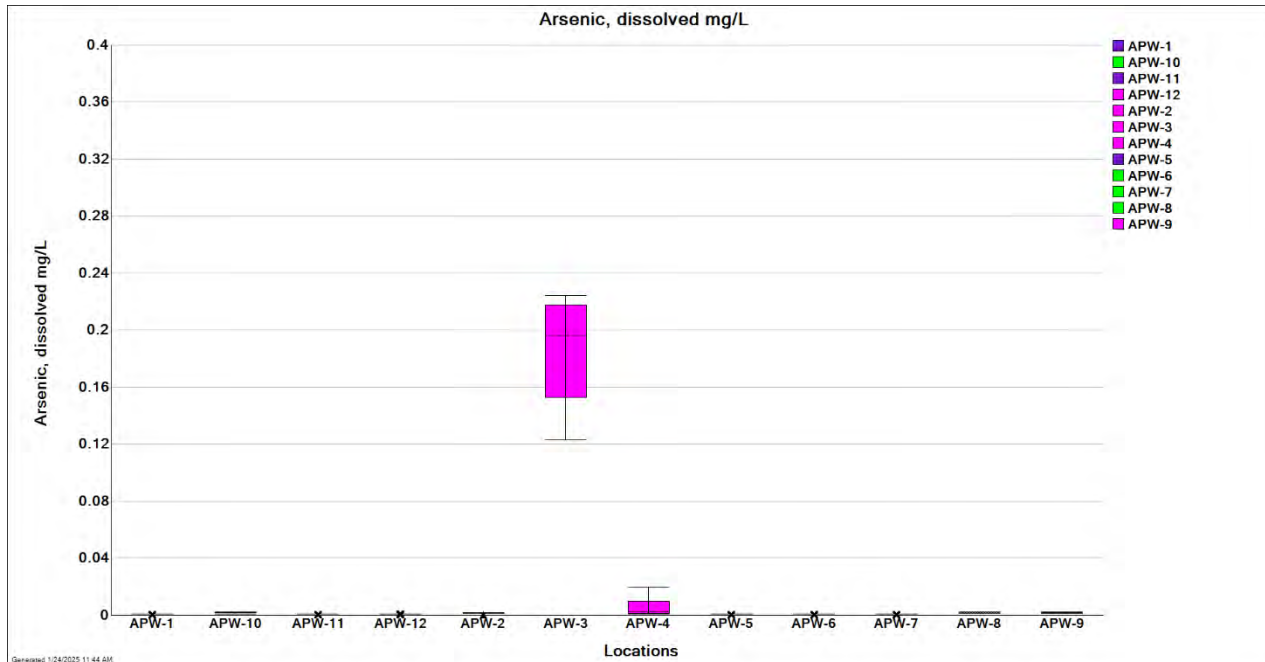


Figure 3-7A. Box-Whisker Plot Showing Distribution of Dissolved Arsenic Concentration by Monitoring Well for Data Collected in 2023 and 2024.

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

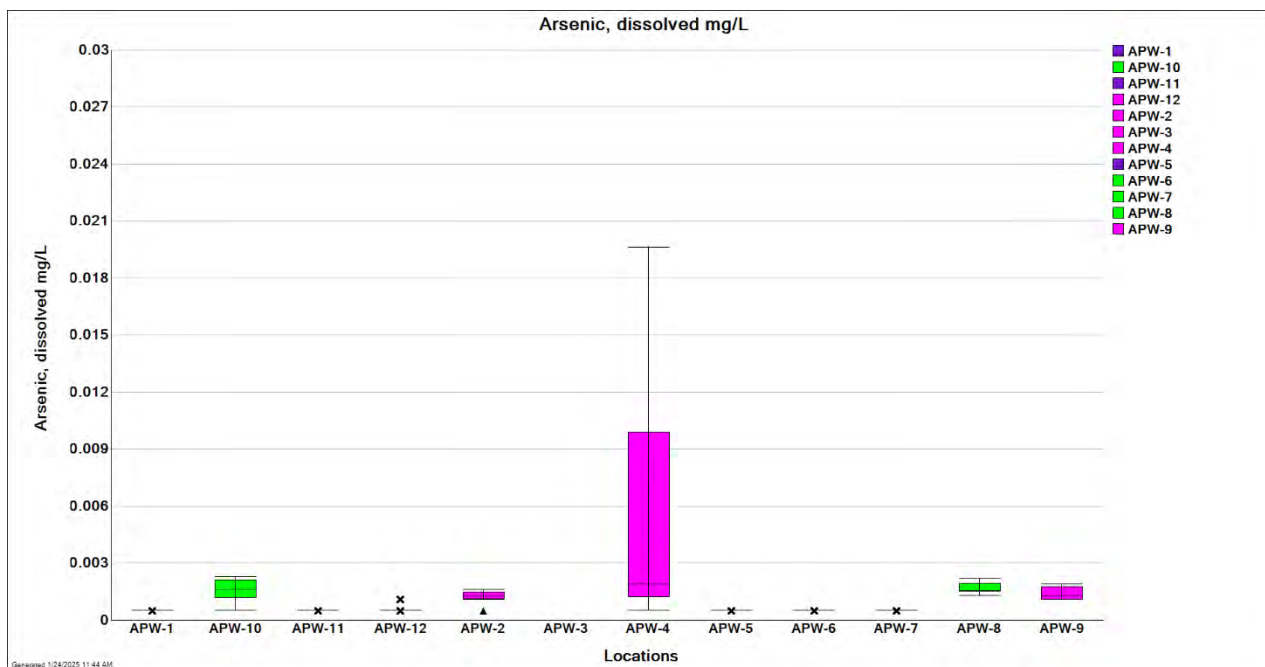


Figure 3-7B. Box-Whisker Plot Showing Distribution of Dissolved Arsenic Concentration by Monitoring Well for Data Collected in 2023 and 2024 (Zoomed In).

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

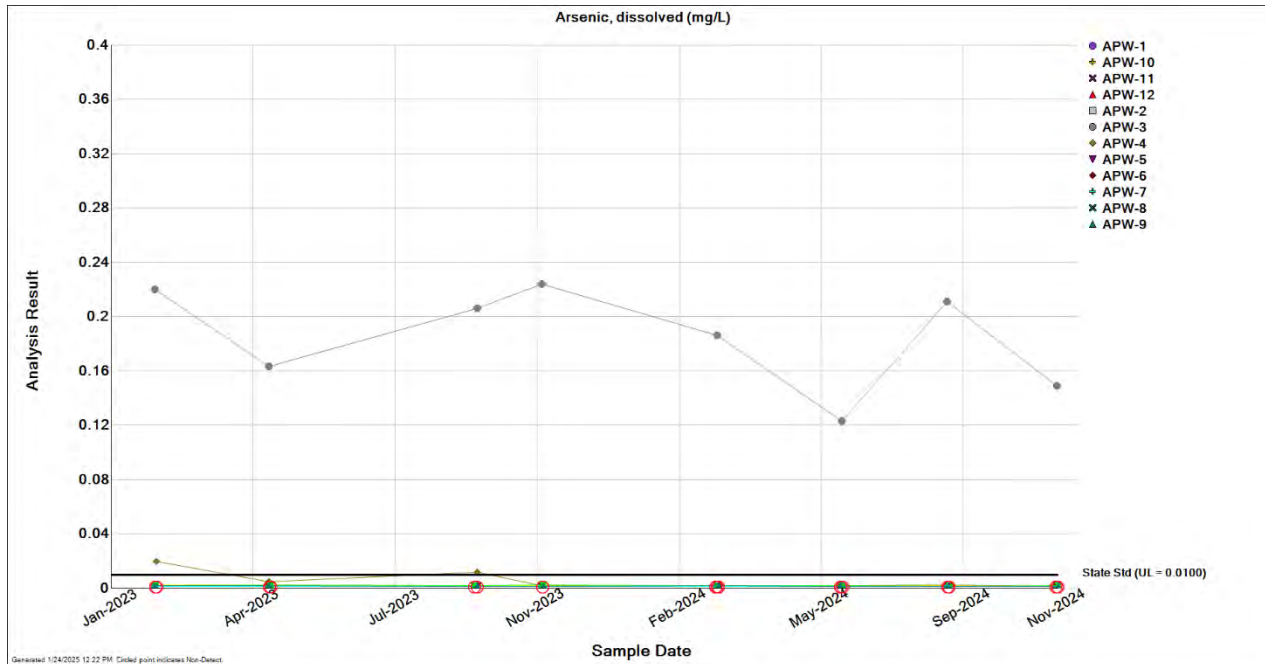


Figure 3-8A. Dissolved Arsenic Concentrations during the Reporting Period (2023–2024) at All Compliance Wells.

Circled results indicate non-detects.

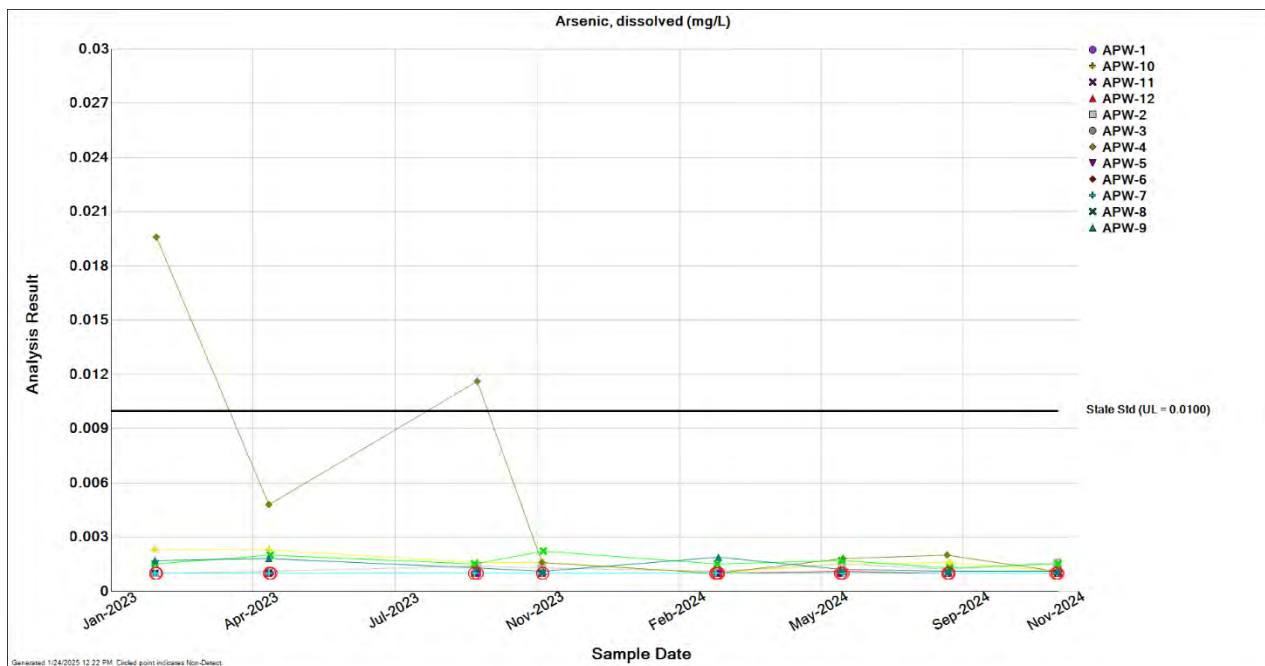


Figure 3-8B. Dissolved Arsenic Concentrations during the Reporting Period (2023–2024) at All Compliance Wells (Zoomed In).

Circled results indicate non-detects.

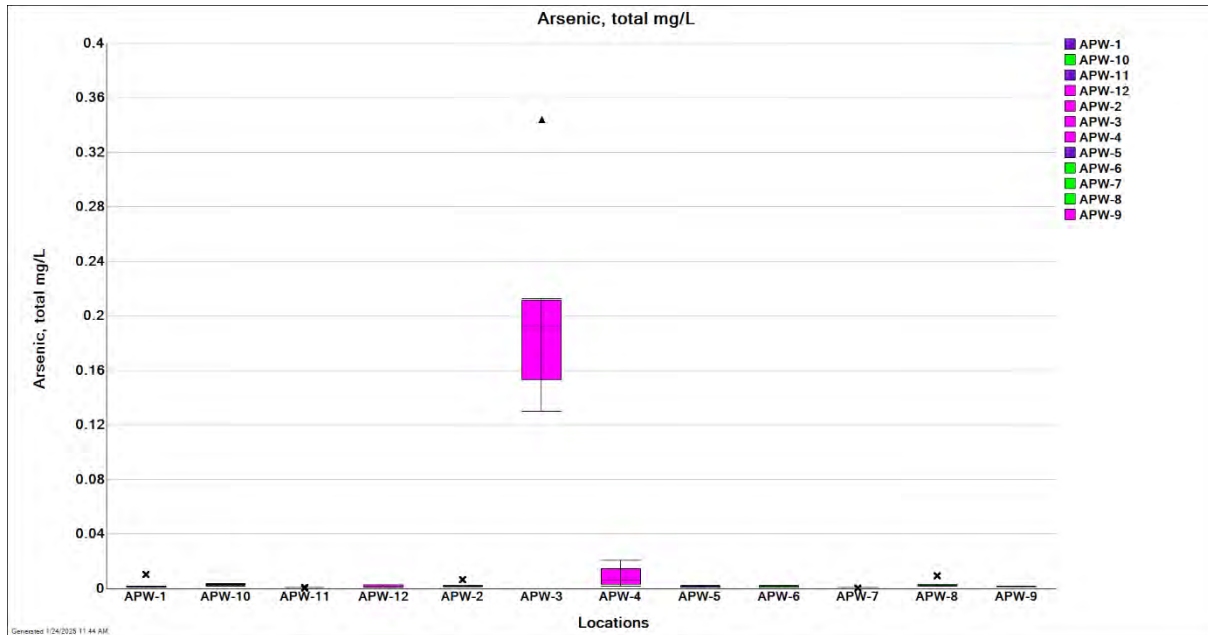


Figure 3-9A. Box-Whisker Plot Showing Distribution of Total Arsenic Concentration by Monitoring Well for Data Collected in 2023 and 2024.

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.

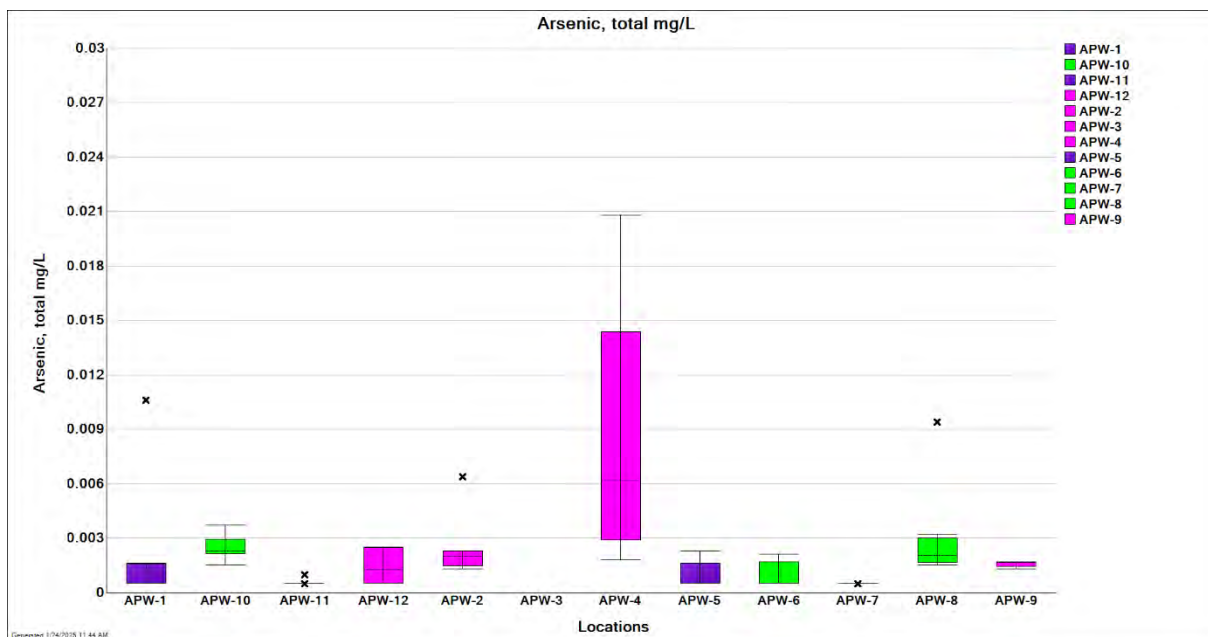


Figure 3-9B. Box-Whisker Plot Showing Distribution of Total Arsenic Concentration by Monitoring Well for Data Collected in 2023 and 2024 (Zoomed In).

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.

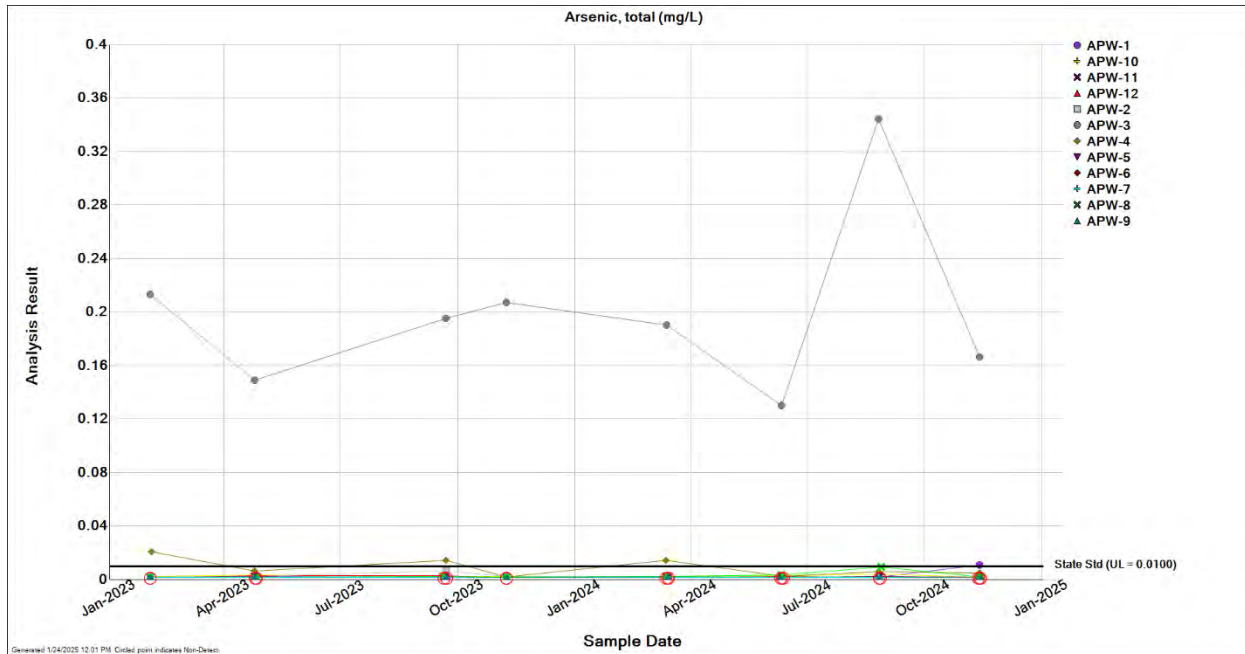


Figure 3-10A. Total Arsenic Concentrations during the Reporting Period (2023–2024) at All Compliance Wells.
Circled results indicate non-detects.

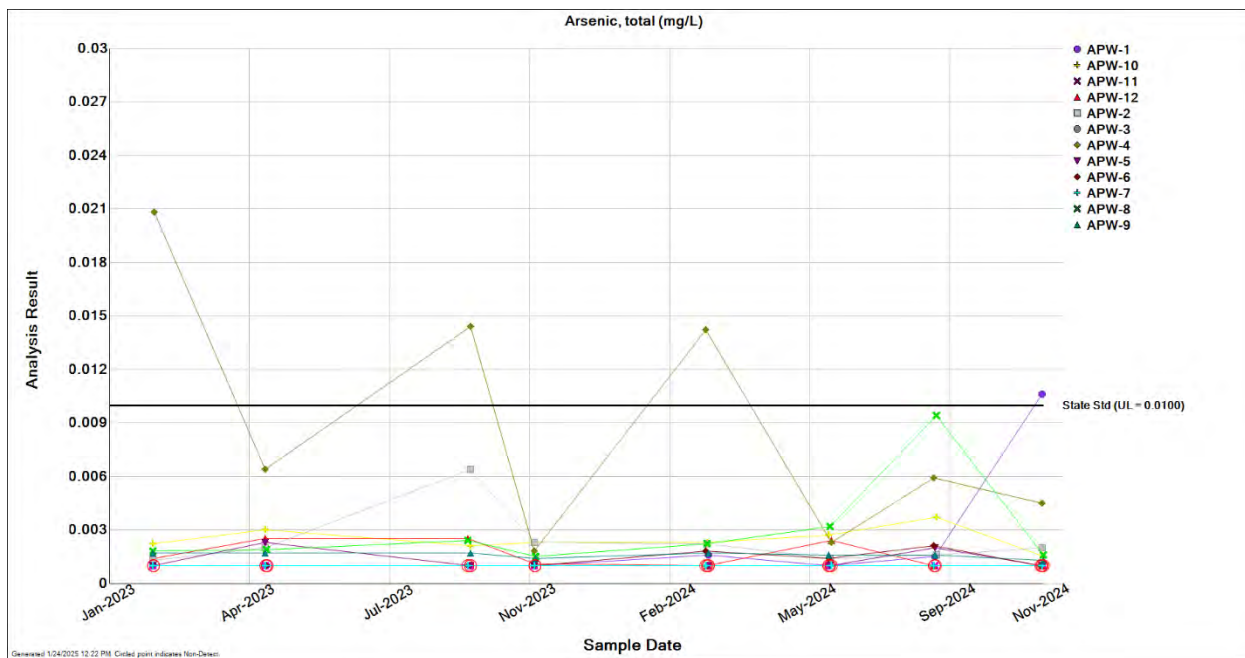


Figure 3-10B. Total Arsenic Concentrations during the Reporting Period (2023–2024) at All Compliance Wells (Zoomed In).
Circled results indicate non-detects.

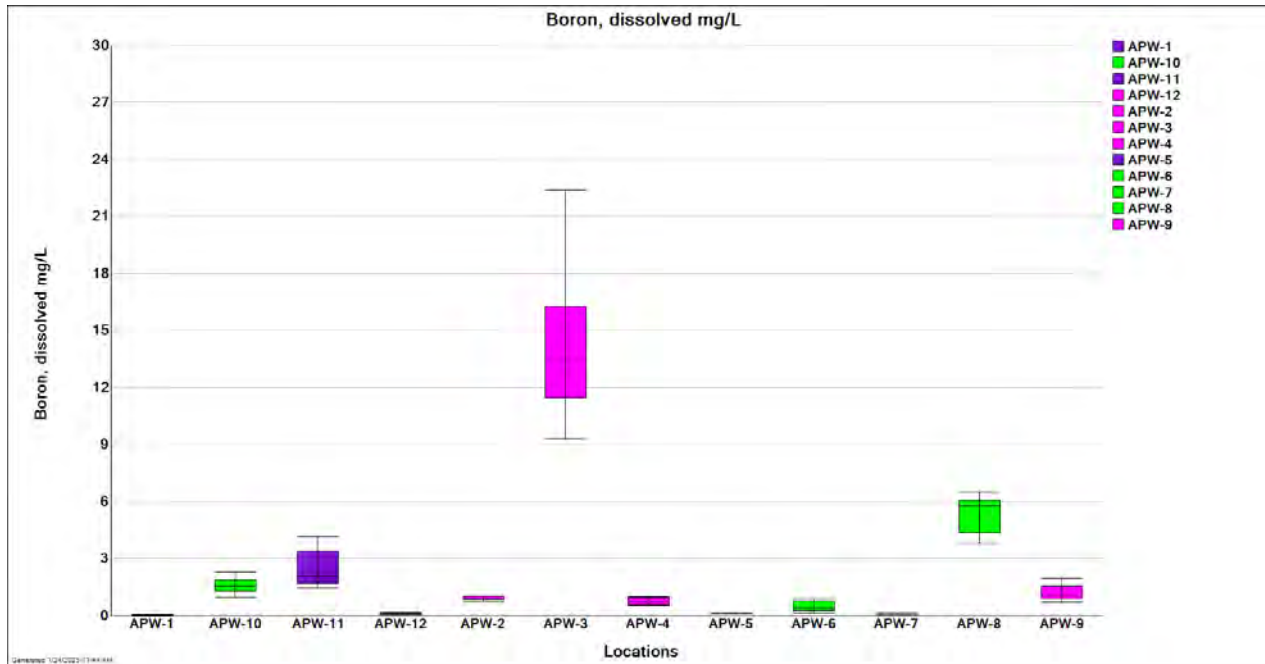


Figure 3-11. Box-Whisker Plot Showing Distribution of Dissolved Boron Concentration by Monitoring Well for Data Collected in 2023 and 2024.

Note: Box-whisker plots for upgradient wells are purple, for midgradient wells are green, and for downgradient wells are pink.

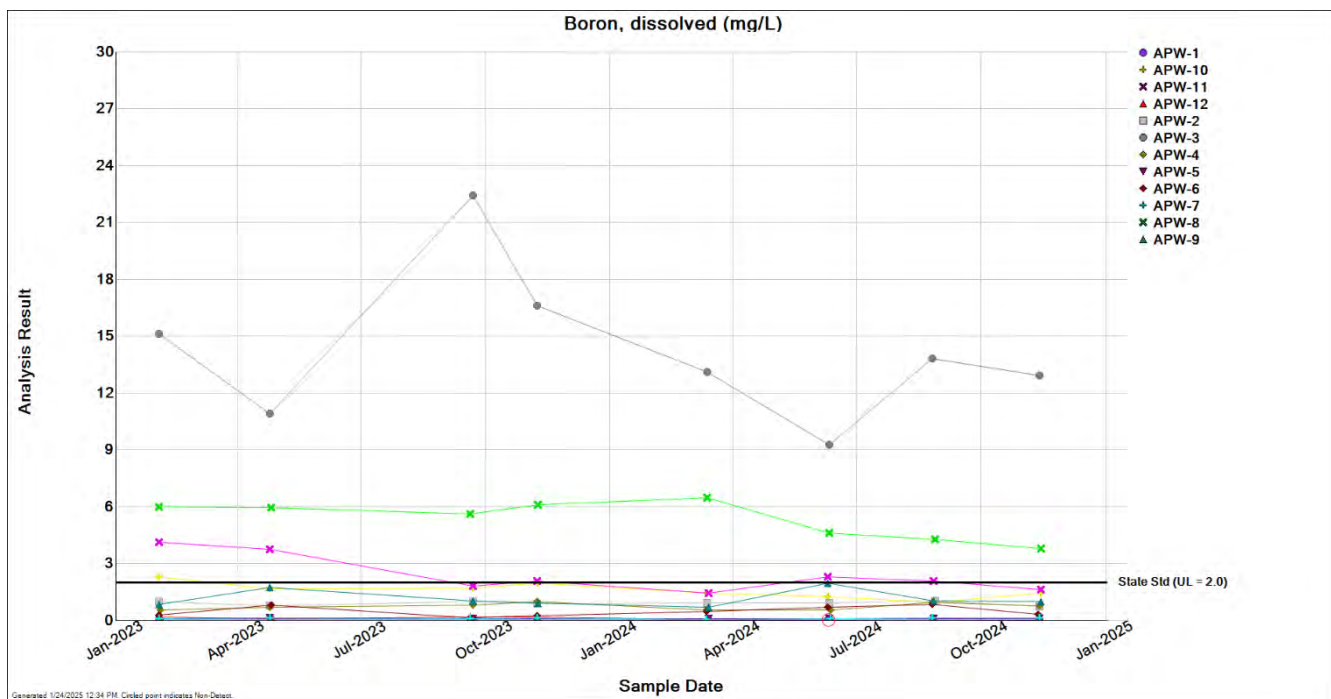


Figure 3-12. Dissolved Boron Concentrations during the Reporting Period (2023–2024) at All Compliance Wells.

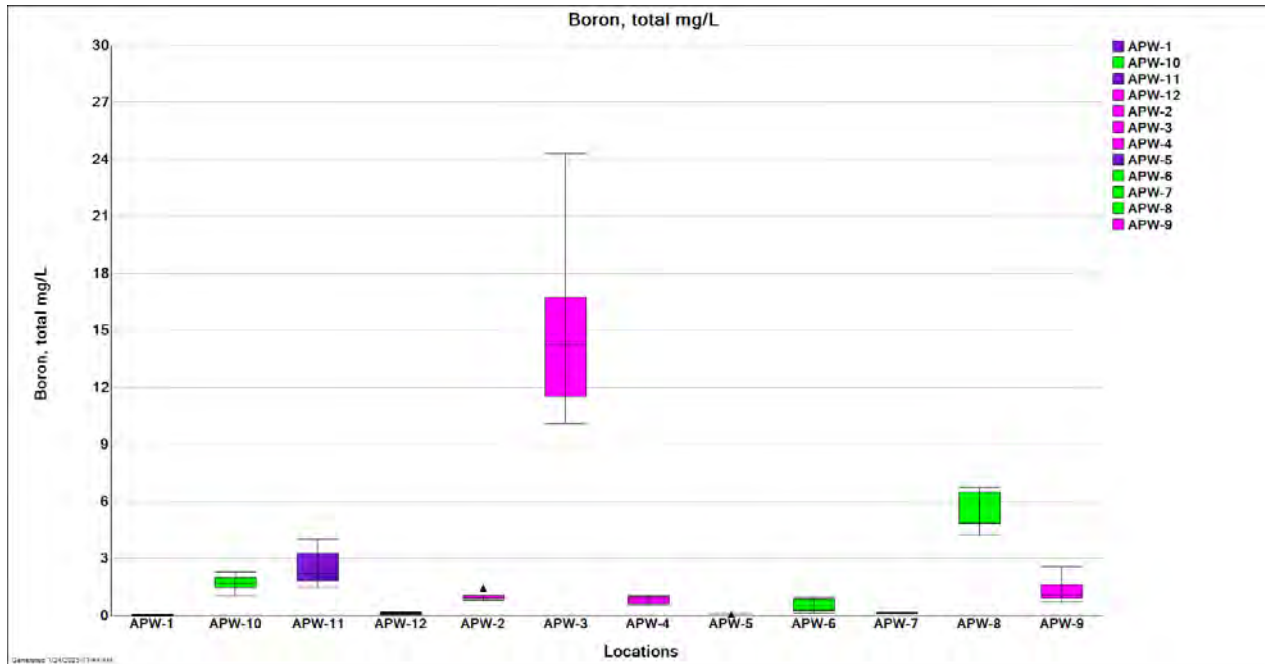


Figure 3-13. Box-Whisker Plot Showing Distribution of Total Boron Concentration by Monitoring Well for Data Collected in 2023 and 2024.

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.

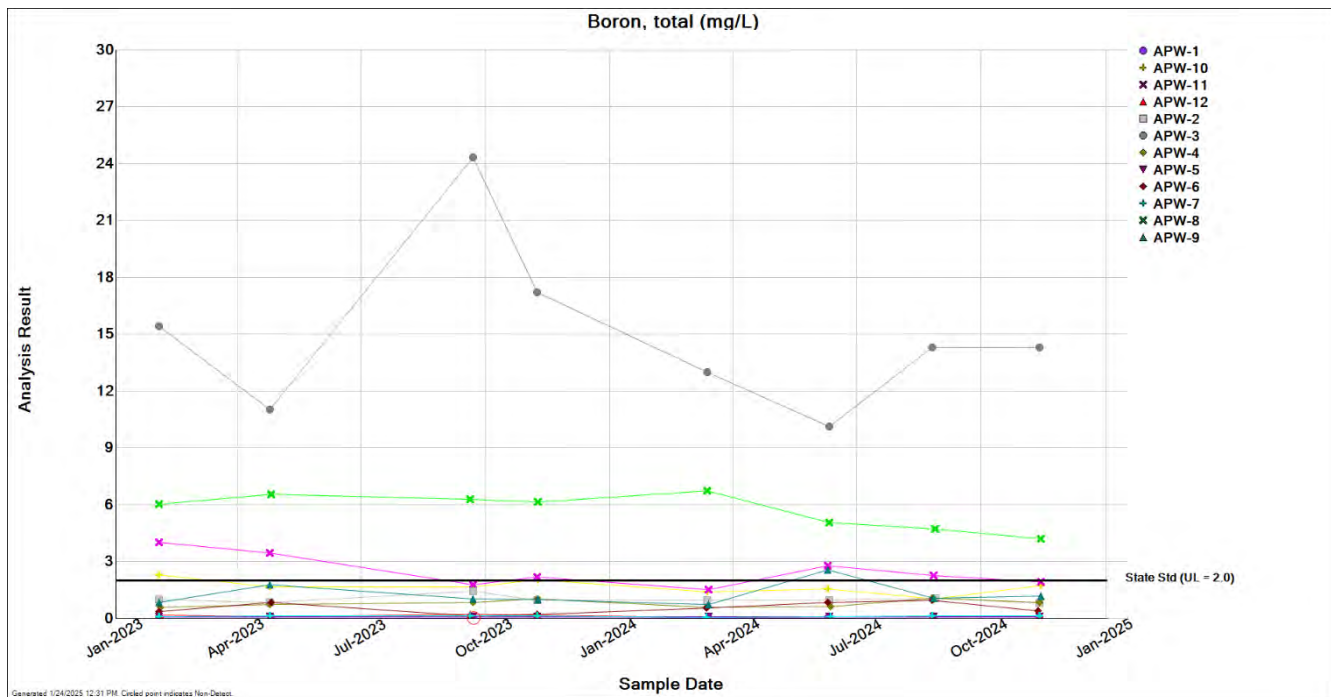


Figure 3-14. Total Boron Concentrations during the Reporting Period (2023–2024) at All Compliance Wells. Circled results indicate non-detects.

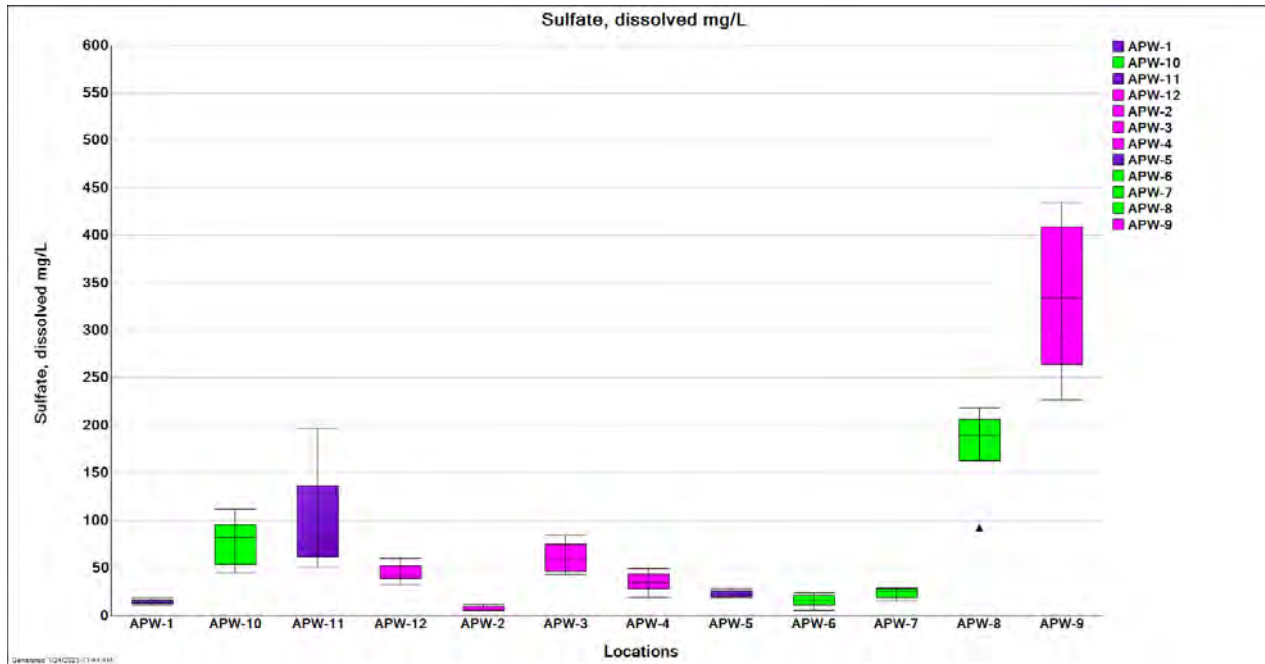


Figure 3-15. Box-Whisker Plot Showing Distribution of Dissolved Sulfate Concentration by Monitoring Well for Data Collected in 2023 and 2024.

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.

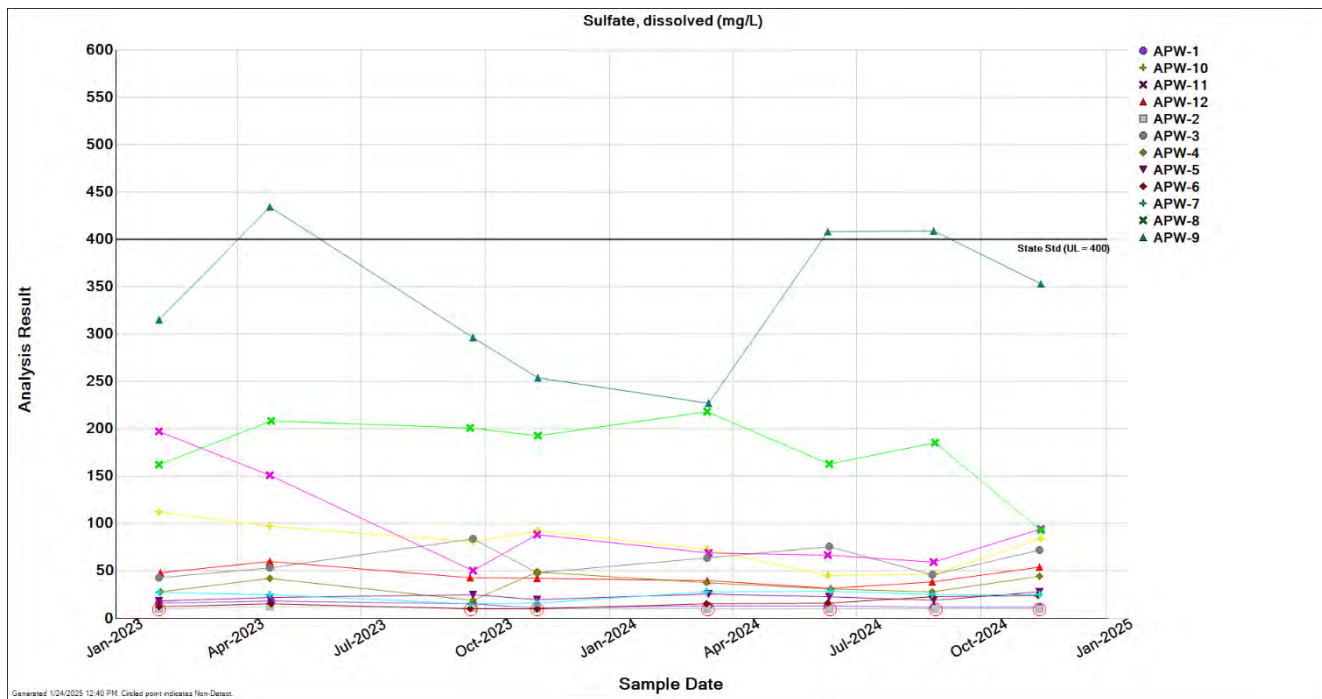


Figure 3-16. Dissolved Sulfate Concentrations during the Reporting Period (2023–2024) at All Compliance Wells.

Circled results indicate non-detects.

APPENDIX A
GROUNDWATER MONITORING RESULTS 2023-2024

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-1

[illegible]

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2023 to 12/31/2024

Well: APW-1

	2/2/2023	4/26/2023	9/22/2023	11/8/2023	3/14/2024	6/10/2024	8/27/2024	11/13/2024
Se, tot, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
SO4, diss, mg/L	16	18	15	11	13	13	12	12
Spec. Cond. (field), micromho	575	687	665	433	665	510	450	791
TDS, mg/L	264	204	344	246	368	290	254	358
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	0.0194
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	0.0271	<0.0100	<0.0100	<0.0100	0.0103	0.0680

Well: APW-2

[illegible]

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2023 to 12/31/2024

Well: APW-2

	2/2/2023	4/25/2023	9/22/2023	11/8/2023	3/13/2024	6/11/2024	8/28/2024	11/13/2024
Se, tot, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
SO4, diss, mg/L	<10	12	11	<10	<10	<10	<10	<10
Spec. Cond. (field), micromho	571	678	680	548	494	542	485	682
TDS, mg/L	362	178	374	276	324	358	340	368
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	0.0114	<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	0.0233	0.0102	<0.0100	<0.0100	<0.0100	0.0119

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-3

[illegible]

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2023 to 12/31/2024

Well: APW-3

	2/2/2023	4/25/2023	9/22/2023	11/8/2023	3/13/2024	6/11/2024	8/26/2024	11/13/2024
Se, tot, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
SO4, diss, mg/L	43	53	84	48	64	76	46	72
Spec. Cond. (field), micromho	1280	1350	1190	1230	1040	1080	1150	1640
TDS, mg/L	850	560	755	785	784	740	685	830
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	0.0160	<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	0.0371	<0.0100	<0.0100	<0.0100	<0.0100	0.0111

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-4

[illegible]

Meredosia Power Station
Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-4

	2/3/2023	4/25/2023	9/22/2023	11/8/2023	3/12/2024	6/12/2024	8/26/2024	11/13/2024
Se, tot, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
SO4, diss, mg/L	28	42	19	49	38	31	28	44
Spec. Cond. (field), micromho	718	901	813	819	661	764	750	976
TDS, mg/L	360	410	465	534	450	578	425	474
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	0.0101	<0.0100	<0.0100	0.0112

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-5

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-5

[illegible]

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2023 to 12/31/2024

Well: APW-6

	2/2/2023	4/26/2023	9/20/2023	11/8/2023	3/12/2024	6/10/2024	8/26/2024	11/12/2024
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	0.0018	0.0014	0.0021	<0.0010
B, diss, mg/L	0.2730	0.8160	0.1300	0.2440	0.4700	0.6750	0.8530	0.3230
B, tot, mg/L	0.3470	0.8340	0.1410	0.2180	0.5470	0.8230	0.9380	0.3770
Ba, diss, mg/L	0.0105	0.0119	0.0094	0.0106	0.0124	0.0105	0.0114	0.0132
Ba, tot, mg/L	0.0106	0.0143	0.0103	0.0123	0.0184	0.0159	0.0185	0.0153
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	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	6.6
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	0.12	0.16	0.12	0.11	0.13	0.15	<0.50	<0.50
Fe, diss, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Fe, tot, mg/L	<0.0400	0.1200	<0.0400	0.3360	1.5300	0.4700	1.9400	0.1660
GW Elv, ft	426.47	427.89	425.64	425.24	428.24	430.91	427.97	425.96
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	0.0075	<0.0070	<0.0070	<0.0070
Mn, tot, mg/L	<0.0070	0.0084	<0.0070	0.0325	0.0998	0.0283	0.1070	0.0127
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	0.538	0.326	0.377	0.321	0.201	0.211	0.096	0.302
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	0.0026	<0.0010
pH (field), STD	7.26	6.70	7.03	7.08	7.07	7.22	7.06	6.99
Sb, diss, mg/L	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	0.0013
Sb, tot, mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0031	<0.0010
Se, diss, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	0.0428	<0.0400

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-6

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-7

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-7

[illegible]

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2023 to 12/31/2024

Well: APW-8

	2/2/2023	4/26/2023	9/20/2023	11/9/2023	3/13/2024	6/11/2024	8/28/2024	11/14/2024
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	0.0015	0.0020	0.0015	0.0022	0.0015	0.0017	0.0013	0.0015
As, tot, mg/L	0.0018	0.0019	0.0024	0.0015	0.0022	0.0032	0.0094	0.0016
B, diss, mg/L	5.9700	5.9500	5.6100	6.1000	6.4700	4.6000	4.2500	3.7900
B, tot, mg/L	6.0300	6.5300	6.2700	6.1300	6.7300	5.0400	4.7300	4.1900
Ba, diss, mg/L	0.0521	0.0631	0.0508	0.0495	0.0609	0.0545	0.0560	0.0358
Ba, tot, mg/L	0.0568	0.0637	0.0604	0.0508	0.0661	0.0646	0.0967	0.0406
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	12.0	10.0	11.0	10.0	9.0	7.5	8.3
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	0.0107	<0.0050
Cr, diss, mg/L	0.0223	0.0133	0.0102	0.0118	0.0106	0.0056	<0.0050	0.0087
Cr, tot, mg/L	0.0230	0.0134	0.0126	0.0117	0.0120	0.0085	0.0164	0.0096
Cu, diss, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0060
Cu, tot, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0063	0.0197	0.0060
F, diss, mg/L	<0.10	0.13	<0.10	<0.10	<0.10	0.14	<0.50	<0.50
Fe, diss, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Fe, tot, mg/L	<0.0400	0.2460	0.9890	<0.0400	0.2850	1.6800	12.9000	0.1570
GW Elv, ft	425.35	426.79	424.30	424.08	427.29	430.05	426.08	424.76
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	<0.0070	0.0252	0.1320	<0.0070	0.0244	0.1030	0.6540	0.0144
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	0.0062	<0.0050	<0.0050	<0.0050	0.0198	<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	3.360	3.650	4.090	3.880	3.420	4.110	2.780	2.860
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	0.0018	0.0124	<0.0010
pH (field), STD	7.43	6.89	7.24	7.07	7.51	7.44	7.21	7.45
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	0.0512	<0.0400	0.0801	0.0600	0.0624	0.0570	<0.0400	<0.0400

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-8

	2/2/2023	4/26/2023	9/20/2023	11/9/2023	3/13/2024	6/11/2024	8/28/2024	11/14/2024
Se, tot, mg/L	0.0492	0.0546	0.0798	0.0666	0.0634	0.0602	<0.0400	0.0444
SO4, diss, mg/L	162	208	201	193	218	163	185	93
Spec. Cond. (field), micromho	787	908	858	746	728	721	650	758
TDS, mg/L	520	544	566	540	576	510	496	402
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	0.0185	<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	0.0312	<0.0100

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-9

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-9

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-10

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-10

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-11

	2/2/2023	4/25/2023	9/22/2023	11/8/2023	3/14/2024	6/10/2024	8/27/2024	11/14/2024
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	4.1200	3.7500	1.8200	2.0700	1.4500	2.3100	2.0600	1.6200
B, tot, mg/L	4.0000	3.4500	1.7600	2.1900	1.5000	2.7600	2.2600	1.9200
Ba, diss, mg/L	0.0175	0.0170	0.0104	0.0125	0.0136	0.0131	0.0139	0.0298
Ba, tot, mg/L	0.0196	0.0184	0.0103	0.0139	0.0147	0.0193	0.0182	0.0151
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	4.0	<4.0	<4.0	<4.0	<4.0	<5.0	8.3
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	0.0052	<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	0.0075
Cu, tot, mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0196
F, diss, mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.50
Fe, diss, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Fe, tot, mg/L	0.3150	0.2910	<0.0400	0.3910	0.2710	0.2870	0.1670	0.0454
GW Elv, ft	426.70	429.48	426.07	425.44	428.03	431.07	428.65	426.06
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	0.0277	0.2380	<0.0070
Mn, tot, mg/L	0.0169	0.0194	<0.0070	0.0381	0.0206	0.0953	0.4200	0.0211
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	0.10	<0.05	<0.05
NO3, diss, mg/L	4.750	5.470	3.960	5.320	2.880	1.460	1.950	2.770
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	7.42	7.47	7.07	7.46	7.33	7.53	7.11	7.32
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

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-11

[illegible]

Meredosia Power Station Groundwater Monitoring Results 2022-2023

Date Range: 01/01/2023 to 12/31/2024

Well: APW-12

[illegible]

**Meredosia Power Station
Groundwater Monitoring Results 2022-2023**

Date Range: 01/01/2023 to 12/31/2024

Well: APW-12

	2/3/2023	4/25/2023	9/20/2023	11/8/2023	3/13/2024	6/12/2024	8/26/2024	11/13/2024
Se, tot, mg/L	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
SO4, diss, mg/L	48	60	43	42	40	32	38	54
Spec. Cond. (field), micromho	752	1060	885	780	620	628	604	957
TDS, mg/L	448	520	524	440	408	460	388	492
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	0.0112	0.0106	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100

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 ties) values (Gilbert, 1987; p. 208)

Indicator Function

$$\text{sgn}(x_{ij} - x_{jk})$$

$$= 1 \text{ if } (x_{ij} - x_{jk}) > 0$$

$$= 0 \text{ if } (x_{ij} - x_{jk}) = 0$$

$$= -1 \text{ if } (x_{ij} - x_{jk}) < 0$$

where $x_{i1}, x_{i2}, \dots, x_{in}$ are the time ordered data (n_i is total of data in the i -th season).

Mann-Kendall Statistic, S_i

$$= \sum_{k=1}^{n_i-1} \sum_{j=k+1}^{n_i} \text{sgn}(x_{ij} - x_{jk})$$

Variance of S_i $\text{VAR}(S_i)$

$$\text{VAR}(S_i) =$$

$$\frac{1}{18} \left\{ n_i(n_i - 1)(2n_i + 5) - \sum_{p=1}^{g_i} t_{ip}(t_{ip} - 1)(2t_{ip} + 5) - \sum_{q=1}^{h_i} u_{iq}(u_{iq} - 1)(2u_{iq} + 5) \right\}$$

$$+ \frac{\sum_{p=1}^{g_i} t_{ip}(t_{ip} - 1)(t_{ip} - 2) \sum_{q=1}^{h_i} u_{iq}(u_{iq} - 1)(u_{iq} - 2)}{9n_i(n_i - 1)(n_i - 2)}$$

$$+ \frac{\sum_{p=1}^{g_i} t_{ip}(t_{ip} - 1) \sum_{q=1}^{h_i} u_{iq}(u_{iq} - 1)}{2n_i(n_i - 1)}.$$

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.

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

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 $Z_i \geq SCL$.
--	---------------------

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 were 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

n

Statistical Analysis

Mean of the observed data during the scoping period; \bar{X}	$\bar{X} = \frac{1}{n} \sum_{i=1}^n X_i$ <p>where X_i is the i-th observation.</p>
Standard deviation of observed data; S_x .	$S_x = \sqrt{\frac{1}{(n-1)} \sum_{i=1}^n (X_i - \bar{X})^2}$
Test statistics: T_l & T_n	<p>Sort the data into ascending order, then compute the statistics</p> $T_l = (\bar{X} - X_l) / S_x$ $T_n = (X_n - \bar{X}) / S_x$ <p>where X_l is the smallest value of the n observations and X_n is the largest value of the n observations.</p>
One-sided test with a $(1-\alpha)$ confidence level that there is a single extreme outlier within the n observations.	<p>Grubbs single, one-sided test of either an extreme low outlier :</p> $X_l \text{ is an outlier if } T_l \geq T_{cr(1-\alpha, n)}$ <p>or an extreme high outlier:</p> $X_n \text{ is an outlier if } T_n \geq T_{cr(1-\alpha, n)}.$ <p>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.</p>

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.	
The number of observations taken during a specified scoping period; n	Number of observations, n , where $3 \leq n \leq 25$.
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., $X_{(j)} = \text{Ln}[X_{(j)}]$.
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	<p>Compute the T_s test statistic for $X_{(1)}$ as an outlier:</p> $T_s = \frac{X_{(2)} - X_{(1)}}{X_{(n)} - X_{(1)}} \quad \text{for } 3 \leq n \leq 7$ $T_s = \frac{X_{(2)} - X_{(1)}}{X_{(n-1)} - X_{(1)}} \quad \text{for } 8 \leq n \leq 10$ $T_s = \frac{X_{(3)} - X_{(1)}}{X_{(n-1)} - X_{(1)}} \quad \text{for } 11 \leq n \leq 13$ $T_s = \frac{X_{(3)} - X_{(1)}}{X_{(n-2)} - X_{(1)}} \quad \text{for } 14 \leq n \leq 25.$
Test statistic, T_s , for the maximum data value	Compute the T_s test statistic for $X_{(n)}$ as an outlier:

	$T_s = \frac{X_{(n)} - X_{(n-1)}}{X_{(n)} - X_{(1)}} \quad \text{for } 3 \leq n \leq 7$ $T_s = \frac{X_{(n)} - X_{(n-1)}}{X_{(n)} - X_{(2)}} \quad \text{for } 8 \leq n \leq 10$ $T_s = \frac{X_{(n)} - X_{(n-2)}}{X_{(n)} - X_{(2)}} \quad \text{for } 11 \leq n \leq 13$ $T_s = \frac{X_{(n)} - X_{(n-2)}}{X_{(n)} - X_{(3)}} \quad \text{for } 14 \leq n \leq 25.$
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.	<p>Dixon's single, one-sided test for statistical evidence of either an extreme low-valued outlier:</p> <p>$X_{(1)}$ is an outlier if $T_s \geq T_c$</p> <p>or an extreme high-valued outlier:</p> <p>$X_{(n)}$ is an outlier if $T_s \geq T_c$.</p> <p>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.</p>

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	$= \frac{X_{i'} - X_i}{i' - i}$ <p>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.</p>
N'	<p>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:</p> $N' = n(n-1)/2$

Sen's Slope Estimate	<p>Sen's slope estimator = median slope</p> <p>= $Q_{[(N'+1)/2]}$ if N' is odd</p> <p>= $\frac{1}{2}(Q_{[N'/2]} + Q_{[(N'+2)/2]})$ if N' is even</p> <p>where the Q values have first been ranked from smallest to largest.</p>
$Z_{1-\alpha/2}$	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)	<p>VAR(S)</p> <p>= $\frac{1}{18}[n(n-1)(2n+5) - \sum_{p=1}^g t_p(t_p-1)(2t_p+5)]$</p> <p>where g is the number of tied groups, t_p is the number of data in the pth group, and n is the number of data values.</p>
C_α	= $Z_{1-\alpha/2} \sqrt{\text{VAR}(S)}$
Sen's Slope, a two-sided test at the α significance level	<p>$M_1 = \frac{(N' - C_\alpha)}{2}$</p> <p>$M_2 = \frac{(N' + C_\alpha)}{2}$</p> <p>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.</p>

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

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 4.9029$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0012$ Test Statistic, high extreme of all data: $T_n = 3.2680$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/13/2024	0.0012	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.4765$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Antimony, dissolved, mg/L****Location: APW-4**

Mean of all data: 0.0005

Standard Deviation of all data: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0017$ Test Statistic, high extreme of all data: $T_n = 4.0412$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0013$ Test Statistic, high extreme of all data: $T_n = 4.2717$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/12/2024	0.0013	False		1

Antimony, 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: $X_n = 0.0012$ Test Statistic, high extreme of all data: $T_n = 5.2947$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
08/26/2024	0.0012	False		1

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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0011$ Test Statistic, high extreme of all data: $T_n = 3.6788$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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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: $X_n = 0.0018$ Test Statistic, high extreme of all data: $T_n = 4.1475$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.0018	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0026$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0029$

Test Statistic, high extreme of all data: $T_n = 4.5476$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0041$ Test Statistic, high extreme of all data: $T_n = 5.1554$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Antimony, total, mg/L****Location: APW-4**

Mean of all data: 0.0008

Standard Deviation of all data: 0.0015

Largest Observation Concentration of all data: $X_n = 0.0089$ Test Statistic, high extreme of all data: $T_n = 5.2707$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/26/2024	0.0089	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0012$ Test Statistic, high extreme of all data: $T_n = 5.3882$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	0.0012	False		1

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

Mean of all data: 0.0006

Standard Deviation of all data: 0.0005

Largest Observation Concentration of all data: $X_n = 0.0031$ Test Statistic, high extreme of all data: $T_n = 5.3882$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/26/2024	0.0031	False		1

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

Mean of all data: 0.0005

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0014$ Test Statistic, high extreme of all data: $T_n = 5.2947$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/26/2024	0.0014	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0057$ Test Statistic, high extreme of all data: $T_n = 5.3296$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 0.0016$ Test Statistic, high extreme of all data: $T_n = 3.2111$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0015

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0023$ Test Statistic, high extreme of all data: $T_n = 2.1214$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/13/2024	<0.0005	True	-1	

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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*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: $X_n = 0.0016$ Test Statistic, high extreme of all data: $T_n = 4.1922$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2021	0.0016	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Arsenic, dissolved, mg/L****Location: APW-2**

Mean of all data: 0.0019

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: $X_n = 0.0044$ Test Statistic, high extreme of all data: $T_n = 1.9544$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Arsenic, dissolved, mg/L****Location: APW-3**

Mean of all data: 0.2024

Standard Deviation of all data: 0.0496

Largest Observation Concentration of all data: $X_n = 0.3200$ Test Statistic, high extreme of all data: $T_n = 2.3712$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0219

Standard Deviation of all data: 0.0371

Largest Observation Concentration of all data: $X_n = 0.1800$

Test Statistic, high extreme of all data: $T_n = 4.2655$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	0.1800	False		1

Arsenic, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0005

Standard Deviation of all data: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 2.8155$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 0.0022$

Test Statistic, high extreme of all data: $T_n = 3.1746$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0019$

Test Statistic, high extreme of all data: $T_n = 2.2014$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0019

Standard Deviation of all data: 0.0023

Largest Observation Concentration of all data: $X_n = 0.0106$ Test Statistic, high extreme of all data: $T_n = 3.7483$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/13/2024	0.0106	False		1

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

Mean of all data: 0.0041

Standard Deviation of all data: 0.0067

Largest Observation Concentration of all data: $X_n = 0.0364$ Test Statistic, high extreme of all data: $T_n = 4.8538$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.0364	False		1

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

Mean of all data: 0.0028

Standard Deviation of all data: 0.0072

Largest Observation Concentration of all data: $X_n = 0.0371$ Test Statistic, high extreme of all data: $T_n = 4.7965$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0371	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0036

Standard Deviation of all data: 0.0085

Largest Observation Concentration of all data: $X_n = 0.0433$ Test Statistic, high extreme of all data: $T_n = 4.6616$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 0.0012$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Arsenic, total, mg/L****Location: APW-2**

Mean of all data: 0.0026

Standard Deviation of all data: 0.0015

Largest Observation Concentration of all data: $X_n = 0.0067$ Test Statistic, high extreme of all data: $T_n = 2.8202$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0067	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.2291

Standard Deviation of all data: 0.0584

Largest Observation Concentration of all data: $X_n = 0.3580$ Test Statistic, high extreme of all data: $T_n = 2.2058$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Arsenic, total, mg/L****Location: APW-4**

Mean of all data: 0.0145

Standard Deviation of all data: 0.0105

Largest Observation Concentration of all data: $X_n = 0.0598$ Test Statistic, high extreme of all data: $T_n = 4.2977$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0598	False		1

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: $X_n = 0.0039$ Test Statistic, high extreme of all data: $T_n = 3.6929$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0039	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0010

Standard Deviation of all data: 0.0006

Largest Observation Concentration of all data: $X_n = 0.0027$

Test Statistic, high extreme of all data: $T_n = 2.7908$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0027	False		1

Arsenic, total, mg/L

Location: APW-7

Mean of all data: 0.0014

Standard Deviation of all data: 0.0040

Largest Observation Concentration of all data: $X_n = 0.0225$

Test Statistic, high extreme of all data: $T_n = 5.2615$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0225	False		1

Arsenic, total, mg/L

Location: APW-8

Mean of all data: 0.0030

Standard Deviation of all data: 0.0052

Largest Observation Concentration of all data: $X_n = 0.0301$

Test Statistic, high extreme of all data: $T_n = 5.1767$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0301	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0019

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: $X_n = 0.0042$ Test Statistic, high extreme of all data: $T_n = 2.7926$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0042	False		1

Barium, dissolved, mg/L**Location: APW-1**

Mean of all data: 0.0127

Standard Deviation of all data: 0.0040

Largest Observation Concentration of all data: $X_n = 0.0232$ Test Statistic, high extreme of all data: $T_n = 2.5923$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	<0.0000	True	-1	

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

Mean of all data: 0.0188

Standard Deviation of all data: 0.0023

Largest Observation Concentration of all data: $X_n = 0.0231$ Test Statistic, high extreme of all data: $T_n = 1.8968$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0159

Standard Deviation of all data: 0.0048

Largest Observation Concentration of all data: $X_n = 0.0298$ Test Statistic, high extreme of all data: $T_n = 2.9231$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/14/2024	0.0298	False		1

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

Mean of all data: 0.1267

Standard Deviation of all data: 0.0331

Largest Observation Concentration of all data: $X_n = 0.2460$ Test Statistic, high extreme of all data: $T_n = 3.6010$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
01/29/2019	0.2460	False		1

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: $X_n = 0.0553$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0485

Standard Deviation of all data: 0.0132

Largest Observation Concentration of all data: $X_n = 0.0718$ Test Statistic, high extreme of all data: $T_n = 1.7715$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2010	<0.0000	True	-1	

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

Mean of all data: 0.0816

Standard Deviation of all data: 0.0331

Largest Observation Concentration of all data: $X_n = 0.1550$ Test Statistic, high extreme of all data: $T_n = 2.2189$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*No Outliers***Barium, dissolved, mg/L****Location: APW-4**

Mean of all data: 0.0478

Standard Deviation of all data: 0.0177

Largest Observation Concentration of all data: $X_n = 0.0950$ Test Statistic, high extreme of all data: $T_n = 2.6634$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0080

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: $X_n = 0.0108$ Test Statistic, high extreme of all data: $T_n = 1.4364$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2010	<0.0000	True	-1	

Barium, dissolved, mg/L**Location: APW-6**

Mean of all data: 0.0134

Standard Deviation of all data: 0.0029

Largest Observation Concentration of all data: $X_n = 0.0198$ Test Statistic, high extreme of all data: $T_n = 2.2313$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*No Outliers***Barium, dissolved, mg/L****Location: APW-7**

Mean of all data: 0.0301

Standard Deviation of all data: 0.0072

Largest Observation Concentration of all data: $X_n = 0.0445$ Test Statistic, high extreme of all data: $T_n = 2.0071$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0613

Standard Deviation of all data: 0.0094

Largest Observation Concentration of all data: $X_n = 0.0754$ Test Statistic, high extreme of all data: $T_n = 1.4986$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Barium, dissolved, mg/L****Location: APW-9**

Mean of all data: 0.0228

Standard Deviation of all data: 0.0091

Largest Observation Concentration of all data: $X_n = 0.0490$ Test Statistic, high extreme of all data: $T_n = 2.8849$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
07/29/2020	0.0490	False		1

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

Mean of all data: 0.0224

Standard Deviation of all data: 0.0115

Largest Observation Concentration of all data: $X_n = 0.0650$ Test Statistic, high extreme of all data: $T_n = 3.7138$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0650	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0283

Standard Deviation of all data: 0.0237

Largest Observation Concentration of all data: $X_n = 0.1430$

Test Statistic, high extreme of all data: $T_n = 4.8379$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.1430	False		1

Barium, total, mg/L

Location: APW-11

Mean of all data: 0.0224

Standard Deviation of all data: 0.0164

Largest Observation Concentration of all data: $X_n = 0.0970$

Test Statistic, high extreme of all data: $T_n = 4.5341$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0970	False		1

Barium, total, mg/L

Location: APW-12

Mean of all data: 0.1628

Standard Deviation of all data: 0.0686

Largest Observation Concentration of all data: $X_n = 0.4390$

Test Statistic, high extreme of all data: $T_n = 4.0293$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2021	0.4390	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0599$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Barium, total, mg/L****Location: APW-2**

Mean of all data: 0.0689

Standard Deviation of all data: 0.0269

Largest Observation Concentration of all data: $X_n = 0.1650$ Test Statistic, high extreme of all data: $T_n = 3.5804$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.1650	False		1

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

Mean of all data: 0.1153

Standard Deviation of all data: 0.0308

Largest Observation Concentration of all data: $X_n = 0.1890$ Test Statistic, high extreme of all data: $T_n = 2.3966$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0713

Standard Deviation of all data: 0.0454

Largest Observation Concentration of all data: $X_n = 0.2860$ Test Statistic, high extreme of all data: $T_n = 4.7294$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2021	0.2860	False		1

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

Mean of all data: 0.0112

Standard Deviation of all data: 0.0044

Largest Observation Concentration of all data: $X_n = 0.0304$ Test Statistic, high extreme of all data: $T_n = 4.3318$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0304	False		1

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

Mean of all data: 0.0163

Standard Deviation of all data: 0.0039

Largest Observation Concentration of all data: $X_n = 0.0270$ Test Statistic, high extreme of all data: $T_n = 2.7248$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0396

Standard Deviation of all data: 0.0244

Largest Observation Concentration of all data: $X_n = 0.1600$

Test Statistic, high extreme of all data: $T_n = 4.9296$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.1600	False		1

Barium, total, mg/L

Location: APW-8

Mean of all data: 0.0723

Standard Deviation of all data: 0.0244

Largest Observation Concentration of all data: $X_n = 0.1850$

Test Statistic, high extreme of all data: $T_n = 4.6115$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.1850	False		1

Barium, total, mg/L

Location: APW-9

Mean of all data: 0.0298

Standard Deviation of all data: 0.0126

Largest Observation Concentration of all data: $X_n = 0.0606$

Test Statistic, high extreme of all data: $T_n = 2.4525$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.4765$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0003

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: $X_n = 0.0042$

Test Statistic, high extreme of all data: $T_n = 5.7192$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: 0.0003

Largest Observation Concentration of all data: $X_n = 0.0018$

Test Statistic, high extreme of all data: $T_n = 4.3693$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.5014$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0017$ Test Statistic, high extreme of all data: $T_n = 5.3882$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0017	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0006$ Test Statistic, high extreme of all data: $T_n = 3.7460$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	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: $X_n = 0.0013$ Test Statistic, high extreme of all data: $T_n = 4.9029$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0013	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0014$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0018$

Test Statistic, high extreme of all data: $T_n = 4.8000$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0006$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0006	False		1

Beryllium, total, mg/L

Location: APW-3

Mean of all data: 0.0004

Standard Deviation of all data: 0.0008

Largest Observation Concentration of all data: $X_n = 0.0049$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0049	False		1

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: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0003$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0006$ Test Statistic, high extreme of all data: $T_n = 5.3882$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0006	False		1

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: $X_n = 0.0009$ Test Statistic, high extreme of all data: $T_n = 5.2947$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/19/2017	0.0009	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0019$

Test Statistic, high extreme of all data: $T_n = 5.0046$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 0.0003$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Boron, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0690

Standard Deviation of all data: 0.0285

Largest Observation Concentration of all data: $X_n = 0.1400$

Test Statistic, high extreme of all data: $T_n = 2.4904$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 1.5167

Standard Deviation of all data: 0.5538

Largest Observation Concentration of all data: $X_n = 2.5100$ Test Statistic, high extreme of all data: $T_n = 1.7935$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, dissolved, mg/L****Location: APW-11**

Mean of all data: 2.4205

Standard Deviation of all data: 1.3566

Largest Observation Concentration of all data: $X_n = 6.8400$ Test Statistic, high extreme of all data: $T_n = 3.2577$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	6.8400	False		1

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

Mean of all data: 0.1361

Standard Deviation of all data: 0.0541

Largest Observation Concentration of all data: $X_n = 0.2410$ Test Statistic, high extreme of all data: $T_n = 1.9388$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 7.1300$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, dissolved, mg/L****Location: APW-2**

Mean of all data: 1.9024

Standard Deviation of all data: 0.9031

Largest Observation Concentration of all data: $X_n = 3.9000$ Test Statistic, high extreme of all data: $T_n = 2.2120$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, dissolved, mg/L****Location: APW-3**

Mean of all data: 19.3154

Standard Deviation of all data: 8.0175

Largest Observation Concentration of all data: $X_n = 46.0000$ Test Statistic, high extreme of all data: $T_n = 3.3283$ T Critical of all data: $T_{cr} = 2.8350$

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

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 1.5872

Standard Deviation of all data: 1.4442

Largest Observation Concentration of all data: $X_n = 6.3000$

Test Statistic, high extreme of all data: $T_n = 3.2633$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
10/28/2011	6.3000	False		1

Boron, dissolved, mg/L

Location: APW-5

Mean of all data: 0.1270

Standard Deviation of all data: 0.0867

Largest Observation Concentration of all data: $X_n = 0.4100$

Test Statistic, high extreme of all data: $T_n = 3.2631$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
06/18/2012	0.4100	False		1

Boron, dissolved, mg/L

Location: APW-6

Mean of all data: 0.6275

Standard Deviation of all data: 0.4573

Largest Observation Concentration of all data: $X_n = 1.8100$

Test Statistic, high extreme of all data: $T_n = 2.5859$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.1424

Standard Deviation of all data: 0.0599

Largest Observation Concentration of all data: $X_n = 0.3780$ Test Statistic, high extreme of all data: $T_n = 3.9300$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/27/2018	0.3780	False		1

Boron, dissolved, mg/L**Location: APW-8**

Mean of all data: 6.7074

Standard Deviation of all data: 1.1811

Largest Observation Concentration of all data: $X_n = 8.8800$ Test Statistic, high extreme of all data: $T_n = 1.8394$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, dissolved, mg/L****Location: APW-9**

Mean of all data: 1.0908

Standard Deviation of all data: 0.4456

Largest Observation Concentration of all data: $X_n = 2.1100$ Test Statistic, high extreme of all data: $T_n = 2.2869$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0649

Standard Deviation of all data: 0.0216

Largest Observation Concentration of all data: $X_n = 0.1100$ Test Statistic, high extreme of all data: $T_n = 2.0835$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, total, mg/L****Location: APW-10**

Mean of all data: 1.6328

Standard Deviation of all data: 0.6139

Largest Observation Concentration of all data: $X_n = 2.9500$ Test Statistic, high extreme of all data: $T_n = 2.1457$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, total, mg/L****Location: APW-11**

Mean of all data: 2.5901

Standard Deviation of all data: 1.4537

Largest Observation Concentration of all data: $X_n = 7.0400$ Test Statistic, high extreme of all data: $T_n = 3.0610$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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01/26/2021	7.0400	False		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.1450

Standard Deviation of all data: 0.0587

Largest Observation Concentration of all data: $X_n = 0.2730$ Test Statistic, high extreme of all data: $T_n = 2.1803$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 7.4600$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, total, mg/L****Location: APW-2**

Mean of all data: 1.6974

Standard Deviation of all data: 0.6872

Largest Observation Concentration of all data: $X_n = 2.9400$ Test Statistic, high extreme of all data: $T_n = 1.8082$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 17.4133

Standard Deviation of all data: 4.8937

Largest Observation Concentration of all data: $X_n = 28.7000$ Test Statistic, high extreme of all data: $T_n = 2.3064$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, total, mg/L****Location: APW-4**

Mean of all data: 1.0835

Standard Deviation of all data: 0.4381

Largest Observation Concentration of all data: $X_n = 2.1400$ Test Statistic, high extreme of all data: $T_n = 2.4116$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, total, mg/L****Location: APW-5**

Mean of all data: 0.0978

Standard Deviation of all data: 0.0151

Largest Observation Concentration of all data: $X_n = 0.1540$ Test Statistic, high extreme of all data: $T_n = 3.7295$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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09/20/2018	0.1540	False		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.6746

Standard Deviation of all data: 0.4785

Largest Observation Concentration of all data: $X_n = 1.9100$ Test Statistic, high extreme of all data: $T_n = 2.5818$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Boron, total, mg/L****Location: APW-7**

Mean of all data: 0.1508

Standard Deviation of all data: 0.0603

Largest Observation Concentration of all data: $X_n = 0.3630$ Test Statistic, high extreme of all data: $T_n = 3.5207$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/27/2018	0.3630	False		1

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

Mean of all data: 7.1235

Standard Deviation of all data: 1.2188

Largest Observation Concentration of all data: $X_n = 9.4000$ Test Statistic, high extreme of all data: $T_n = 1.8678$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 1.2022

Standard Deviation of all data: 0.5311

Largest Observation Concentration of all data: $X_n = 2.5600$

Test Statistic, high extreme of all data: $T_n = 2.5565$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.5014$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.4765$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0019$ Test Statistic, high extreme of all data: $T_n = 2.8766$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	0.0019	False		1

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.4410$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 44.7

Standard Deviation of all data: 34.1

Largest Observation Concentration of all data: $X_n = 159.0$ Test Statistic, high extreme of all data: $T_n = 3.3$ T Critical of all data: $T_{cr} = 2.9$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/22/2022	159.0	False		1

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

Mean of all data: 3.2

Standard Deviation of all data: 1.6

Largest Observation Concentration of all data: $X_n = 7.0$ Test Statistic, high extreme of all data: $T_n = 2.4$ T Critical of all data: $T_{cr} = 2.7$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Chloride, dissolved, mg/L****Location: APW-11**

Mean of all data: 3.8

Standard Deviation of all data: 2.3

Largest Observation Concentration of all data: $X_n = 11.0$ Test Statistic, high extreme of all data: $T_n = 3.2$ T Critical of all data: $T_{cr} = 2.7$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	11.0	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 44.2

Standard Deviation of all data: 13.0

Largest Observation Concentration of all data: $X_n = 75.0$

Test Statistic, high extreme of all data: $T_n = 2.4$

T Critical of all data: $T_{cr} = 2.7$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 20.0$

Test Statistic, high extreme of all data: $T_n = 0.0$

T Critical of all data: $T_{cr} = 0.0$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chloride, dissolved, mg/L

Location: APW-2

Mean of all data: 19.2

Standard Deviation of all data: 15.5

Largest Observation Concentration of all data: $X_n = 50.0$

Test Statistic, high extreme of all data: $T_n = 2.0$

T Critical of all data: $T_{cr} = 2.8$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 27.9

Standard Deviation of all data: 12.6

Largest Observation Concentration of all data: $X_n = 58.0$

Test Statistic, high extreme of all data: $T_n = 2.4$

T Critical of all data: $T_{cr} = 2.8$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chloride, dissolved, mg/L

Location: APW-4

Mean of all data: 34.4

Standard Deviation of all data: 11.7

Largest Observation Concentration of all data: $X_n = 63.0$

Test Statistic, high extreme of all data: $T_n = 2.4$

T Critical of all data: $T_{cr} = 2.8$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chloride, dissolved, mg/L

Location: APW-5

Mean of all data: 6.2

Standard Deviation of all data: 4.8

Largest Observation Concentration of all data: $X_n = 22.0$

Test Statistic, high extreme of all data: $T_n = 3.3$

T Critical of all data: $T_{cr} = 2.9$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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06/04/2019	22.0	False		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 5.8

Standard Deviation of all data: 6.1

Largest Observation Concentration of all data: $X_n = 27.0$

Test Statistic, high extreme of all data: $T_n = 3.5$

T Critical of all data: $T_{cr} = 2.8$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
06/30/2021	27.0	False		1

Chloride, dissolved, mg/L

Location: APW-7

Mean of all data: 36.1

Standard Deviation of all data: 11.1

Largest Observation Concentration of all data: $X_n = 67.0$

Test Statistic, high extreme of all data: $T_n = 2.8$

T Critical of all data: $T_{cr} = 2.7$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	67.0	False		1

Chloride, dissolved, mg/L

Location: APW-8

Mean of all data: 10.0

Standard Deviation of all data: 3.3

Largest Observation Concentration of all data: $X_n = 18.0$

Test Statistic, high extreme of all data: $T_n = 2.4$

T Critical of all data: $T_{cr} = 2.8$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 13.0

Standard Deviation of all data: 12.8

Largest Observation Concentration of all data: $X_n = 43.0$

Test Statistic, high extreme of all data: $T_n = 2.3$

T Critical of all data: $T_{cr} = 2.7$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Chromium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5014$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0083$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.4765$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.4765$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Chromium, dissolved, mg/L****Location: APW-4**

Mean of all data: 0.0023

Standard Deviation of all data: 0.0012

Largest Observation Concentration of all data: $X_n = 0.0069$ Test Statistic, high extreme of all data: $T_n = 3.9173$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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09/15/2011	0.0069	False		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0111

Standard Deviation of all data: 0.0059

Largest Observation Concentration of all data: $X_n = 0.0320$ Test Statistic, high extreme of all data: $T_n = 3.5299$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*No Outliers***Chromium, total, mg/L****Location: APW-1**

Mean of all data: 0.0037

Standard Deviation of all data: 0.0034

Largest Observation Concentration of all data: $X_n = 0.0173$ Test Statistic, high extreme of all data: $T_n = 4.0062$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
02/02/2023	0.0173	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0047

Standard Deviation of all data: 0.0080

Largest Observation Concentration of all data: $X_n = 0.0431$

Test Statistic, high extreme of all data: $T_n = 4.8297$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.0431	False		1

Chromium, total, mg/L

Location: APW-11

Mean of all data: 0.0047

Standard Deviation of all data: 0.0086

Largest Observation Concentration of all data: $X_n = 0.0465$

Test Statistic, high extreme of all data: $T_n = 4.8545$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0465	False		1

Chromium, total, mg/L

Location: APW-12

Mean of all data: 0.0044

Standard Deviation of all data: 0.0085

Largest Observation Concentration of all data: $X_n = 0.0450$

Test Statistic, high extreme of all data: $T_n = 4.7614$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0450	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0143$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0083$ Test Statistic, high extreme of all data: $T_n = 5.2947$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0083	False		1

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

Mean of all data: 0.0032

Standard Deviation of all data: 0.0021

Largest Observation Concentration of all data: $X_n = 0.0115$ Test Statistic, high extreme of all data: $T_n = 3.9908$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0115	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0032

Standard Deviation of all data: 0.0020

Largest Observation Concentration of all data: $X_n = 0.0105$

Test Statistic, high extreme of all data: $T_n = 3.6375$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: 0.0008

Largest Observation Concentration of all data: $X_n = 0.0061$

Test Statistic, high extreme of all data: $T_n = 4.1515$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0032

Standard Deviation of all data: 0.0039

Largest Observation Concentration of all data: $X_n = 0.0241$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0241	False		1

Chromium, total, mg/L

Location: APW-8

Mean of all data: 0.0140

Standard Deviation of all data: 0.0086

Largest Observation Concentration of all data: $X_n = 0.0438$

Test Statistic, high extreme of all data: $T_n = 3.4813$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0438	False		1

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: $X_n = 0.0053$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0053	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0035$ Test Statistic, high extreme of all data: $T_n = 1.9521$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	<0.0000	True	-1	

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.4765$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0021

Standard Deviation of all data: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.4410$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Cobalt, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.5014$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0033

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: $X_n = 0.0072$ Test Statistic, high extreme of all data: $T_n = 2.4576$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Cobalt, total, mg/L****Location: APW-1**

Mean of all data: 0.0060

Standard Deviation of all data: 0.0082

Largest Observation Concentration of all data: $X_n = 0.0352$ Test Statistic, high extreme of all data: $T_n = 3.5807$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0352	False		1

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

Mean of all data: 0.0075

Standard Deviation of all data: 0.0212

Largest Observation Concentration of all data: $X_n = 0.1110$ Test Statistic, high extreme of all data: $T_n = 4.8775$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.1110	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0067

Standard Deviation of all data: 0.0164

Largest Observation Concentration of all data: $X_n = 0.0860$

Test Statistic, high extreme of all data: $T_n = 4.8264$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0860	False		1

Cobalt, total, mg/L

Location: APW-12

Mean of all data: 0.0088

Standard Deviation of all data: 0.0139

Largest Observation Concentration of all data: $X_n = 0.0723$

Test Statistic, high extreme of all data: $T_n = 4.5595$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0074$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: $X_n = 0.0073$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0046

Largest Observation Concentration of all data: $X_n = 0.0265$

Test Statistic, high extreme of all data: $T_n = 4.8829$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: 0.0009

Largest Observation Concentration of all data: $X_n = 0.0077$

Test Statistic, high extreme of all data: $T_n = 5.3882$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0077	False		1

Cobalt, total, mg/L

Location: APW-7

Mean of all data: 0.0031

Standard Deviation of all data: 0.0033

Largest Observation Concentration of all data: $X_n = 0.0207$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0207	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0055

Standard Deviation of all data: 0.0134

Largest Observation Concentration of all data: $X_n = 0.0771$

Test Statistic, high extreme of all data: $T_n = 5.3390$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0771	False		1

Cobalt, total, mg/L

Location: APW-9

Mean of all data: 0.0045

Standard Deviation of all data: 0.0029

Largest Observation Concentration of all data: $X_n = 0.0119$

Test Statistic, high extreme of all data: $T_n = 2.5325$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0068$

Test Statistic, high extreme of all data: $T_n = 3.6765$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/30/2021	0.0068	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Copper, dissolved, mg/L****Location: APW-11**

Mean of all data: 0.0027

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0075$ Test Statistic, high extreme of all data: $T_n = 4.9029$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/14/2024	0.0075	False		1

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

Mean of all data: 0.0027

Standard Deviation of all data: 0.0012

Largest Observation Concentration of all data: $X_n = 0.0083$ Test Statistic, high extreme of all data: $T_n = 4.8000$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0083	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.4765$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Copper, dissolved, mg/L****Location: APW-3**

Mean of all data: 0.0022

Standard Deviation of all data: 0.0014

Largest Observation Concentration of all data: $X_n = 0.0083$ Test Statistic, high extreme of all data: $T_n = 4.2749$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0083	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0022

Standard Deviation of all data: 0.0014

Largest Observation Concentration of all data: $X_n = 0.0080$ Test Statistic, high extreme of all data: $T_n = 4.2217$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0080	False		1

Copper, dissolved, mg/L**Location: APW-5**

Mean of all data: 0.0020

Standard Deviation of all data: 0.0010

Largest Observation Concentration of all data: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0029

Standard Deviation of all data: 0.0024

Largest Observation Concentration of all data: $X_n = 0.0158$ Test Statistic, high extreme of all data: $T_n = 5.2947$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0158	False		1

Copper, dissolved, mg/L**Location: APW-8**

Mean of all data: 0.0026

Standard Deviation of all data: 0.0006

Largest Observation Concentration of all data: $X_n = 0.0060$ Test Statistic, high extreme of all data: $T_n = 5.3882$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/14/2024	0.0060	False		1

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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0052

Standard Deviation of all data: 0.0093

Largest Observation Concentration of all data: $X_n = 0.0509$ Test Statistic, high extreme of all data: $T_n = 4.8838$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/13/2024	0.0509	False		1

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

Mean of all data: 0.0083

Standard Deviation of all data: 0.0193

Largest Observation Concentration of all data: $X_n = 0.0913$ Test Statistic, high extreme of all data: $T_n = 4.3073$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.0913	False		1

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

Mean of all data: 0.0085

Standard Deviation of all data: 0.0206

Largest Observation Concentration of all data: $X_n = 0.1070$ Test Statistic, high extreme of all data: $T_n = 4.7713$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.1070	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0136

Largest Observation Concentration of all data: $X_n = 0.0693$ Test Statistic, high extreme of all data: $T_n = 4.5997$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0693	False		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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Copper, total, mg/L****Location: APW-2**

Mean of all data: 0.0033

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: $X_n = 0.0221$ Test Statistic, high extreme of all data: $T_n = 5.1526$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0221	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0038

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: $X_n = 0.0232$ Test Statistic, high extreme of all data: $T_n = 4.5992$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0232	False		1

Copper, total, mg/L

Location: APW-4

Mean of all data: 0.0050

Standard Deviation of all data: 0.0050

Largest Observation Concentration of all data: $X_n = 0.0232$ Test Statistic, high extreme of all data: $T_n = 3.6084$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0232	False		1

Copper, total, mg/L

Location: APW-5

Mean of all data: 0.0038

Standard Deviation of all data: 0.0050

Largest Observation Concentration of all data: $X_n = 0.0283$ Test Statistic, high extreme of all data: $T_n = 4.9417$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0283	False		1

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0086$

Test Statistic, high extreme of all data: $T_n = 5.3882$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0086	False		1

Copper, total, mg/L

Location: APW-7

Mean of all data: 0.0043

Standard Deviation of all data: 0.0067

Largest Observation Concentration of all data: $X_n = 0.0312$

Test Statistic, high extreme of all data: $T_n = 4.0279$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0312	False		1

Copper, total, mg/L

Location: APW-8

Mean of all data: 0.0060

Standard Deviation of all data: 0.0144

Largest Observation Concentration of all data: $X_n = 0.0815$

Test Statistic, high extreme of all data: $T_n = 5.2525$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0815	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0015

Largest Observation Concentration of all data: $X_n = 0.0093$ Test Statistic, high extreme of all data: $T_n = 4.1340$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 1.262$ T Critical of all data: $T_{cr} = 2.857$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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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: $X_n = 0.003$ Test Statistic, high extreme of all data: $T_n = 0.000$ T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.003$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.003$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.003$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 1.251$ T Critical of all data: $T_{cr} = 2.835$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 1.666$ T Critical of all data: $T_{cr} = 2.835$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 1.251$ T Critical of all data: $T_{cr} = 2.823$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 1.262$ T Critical of all data: $T_{cr} = 2.857$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 2.556$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 3.399$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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03/21/2018	<0.004	True		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 2.556$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 2.507$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Fluoride, dissolved, mg/L****Location: APW-1**

Mean of all data: 0.19

Standard Deviation of all data: 0.12

Largest Observation Concentration of all data: $X_n = 0.54$ Test Statistic, high extreme of all data: $T_n = 3.03$ T Critical of all data: $T_{cr} = 2.86$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/08/2023	0.54	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.07

Standard Deviation of all data: 0.05

Largest Observation Concentration of all data: $X_n = 0.25$ Test Statistic, high extreme of all data: $T_n = 3.40$ T Critical of all data: $T_{cr} = 2.68$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/14/2024	<0.25	True		1

Fluoride, dissolved, mg/L**Location: APW-11**

Mean of all data: 0.07

Standard Deviation of all data: 0.06

Largest Observation Concentration of all data: $X_n = 0.25$ Test Statistic, high extreme of all data: $T_n = 3.11$ T Critical of all data: $T_{cr} = 2.68$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/14/2024	<0.25	True		1

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

Mean of all data: 0.32

Standard Deviation of all data: 0.04

Largest Observation Concentration of all data: $X_n = 0.42$ Test Statistic, high extreme of all data: $T_n = 2.23$ T Critical of all data: $T_{cr} = 2.66$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.05$ Test Statistic, high extreme of all data: $T_n = 0.00$ T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Fluoride, dissolved, mg/L****Location: APW-2**

Mean of all data: 0.28

Standard Deviation of all data: 0.07

Largest Observation Concentration of all data: $X_n = 0.46$ Test Statistic, high extreme of all data: $T_n = 2.51$ T Critical of all data: $T_{cr} = 2.84$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 0.54$ Test Statistic, high extreme of all data: $T_n = 3.73$ T Critical of all data: $T_{cr} = 2.84$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	0.54	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.42

Standard Deviation of all data: 0.11

Largest Observation Concentration of all data: $X_n = 0.79$

Test Statistic, high extreme of all data: $T_n = 3.55$

T Critical of all data: $T_{cr} = 2.82$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
10/28/2011	0.79	False		1

Fluoride, dissolved, mg/L

Location: APW-5

Mean of all data: 0.13

Standard Deviation of all data: 0.09

Largest Observation Concentration of all data: $X_n = 0.36$

Test Statistic, high extreme of all data: $T_n = 2.58$

T Critical of all data: $T_{cr} = 2.86$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.25$

Test Statistic, high extreme of all data: $T_n = 2.28$

T Critical of all data: $T_{cr} = 2.76$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.26

Standard Deviation of all data: 0.05

Largest Observation Concentration of all data: $X_n = 0.40$ Test Statistic, high extreme of all data: $T_n = 3.01$ T Critical of all data: $T_{cr} = 2.74$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.40	False		1

Fluoride, dissolved, mg/L**Location: APW-8**

Mean of all data: 0.11

Standard Deviation of all data: 0.06

Largest Observation Concentration of all data: $X_n = 0.25$ Test Statistic, high extreme of all data: $T_n = 2.24$ T Critical of all data: $T_{cr} = 2.76$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*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: $X_n = 0.57$ Test Statistic, high extreme of all data: $T_n = 2.28$ T Critical of all data: $T_{cr} = 2.74$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0246

Largest Observation Concentration of all data: $X_n = 0.1620$

Test Statistic, high extreme of all data: $T_n = 5.7724$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	0.1620	False		1

Iron, dissolved, mg/L

Location: APW-10

Mean of all data: 0.0398

Standard Deviation of all data: 0.1010

Largest Observation Concentration of all data: $X_n = 0.5350$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/29/2019	0.5350	False		1

Iron, dissolved, mg/L

Location: APW-11

Mean of all data: 0.0248

Standard Deviation of all data: 0.0243

Largest Observation Concentration of all data: $X_n = 0.1440$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/04/2019	0.1440	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0298

Standard Deviation of all data: 0.0346

Largest Observation Concentration of all data: $X_n = 0.1660$ Test Statistic, high extreme of all data: $T_n = 3.9375$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Iron, dissolved, mg/L****Location: APW-2**

Mean of all data: 0.2167

Standard Deviation of all data: 0.2587

Largest Observation Concentration of all data: $X_n = 1.1000$ Test Statistic, high extreme of all data: $T_n = 3.4145$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/24/2011	1.1000	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 2.2964

Standard Deviation of all data: 1.6159

Largest Observation Concentration of all data: $X_n = 5.4000$

Test Statistic, high extreme of all data: $T_n = 1.9207$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Iron, dissolved, mg/L

Location: APW-4

Mean of all data: 6.7614

Standard Deviation of all data: 4.3224

Largest Observation Concentration of all data: $X_n = 16.0000$

Test Statistic, high extreme of all data: $T_n = 2.1374$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Iron, dissolved, mg/L

Location: APW-5

Mean of all data: 0.0152

Standard Deviation of all data: 0.0079

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.6120$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0187

Standard Deviation of all data: 0.0034

Largest Observation Concentration of all data: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.3786$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Iron, dissolved, mg/L****Location: APW-7**

Mean of all data: 0.0274

Standard Deviation of all data: 0.0216

Largest Observation Concentration of all data: $X_n = 0.1130$ Test Statistic, high extreme of all data: $T_n = 3.9609$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
07/29/2020	0.1130	False		1

Iron, dissolved, mg/L**Location: APW-8**

Mean of all data: 0.0187

Standard Deviation of all data: 0.0034

Largest Observation Concentration of all data: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.3786$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0077

Largest Observation Concentration of all data: $X_n = 0.0565$

Test Statistic, high extreme of all data: $T_n = 4.7383$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/26/2019	0.0565	False		1

Iron, total, mg/L

Location: APW-1

Mean of all data: 2.8374

Standard Deviation of all data: 4.0451

Largest Observation Concentration of all data: $X_n = 17.4000$

Test Statistic, high extreme of all data: $T_n = 3.6001$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	17.4000	False		1

Iron, total, mg/L

Location: APW-10

Mean of all data: 2.9278

Standard Deviation of all data: 8.5516

Largest Observation Concentration of all data: $X_n = 44.5000$

Test Statistic, high extreme of all data: $T_n = 4.8613$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	44.5000	False		1

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 3.3847

Standard Deviation of all data: 11.0585

Largest Observation Concentration of all data: $X_n = 56.8000$

Test Statistic, high extreme of all data: $T_n = 4.8303$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	56.8000	False		1

Iron, total, mg/L

Location: APW-12

Mean of all data: 3.8390

Standard Deviation of all data: 11.4178

Largest Observation Concentration of all data: $X_n = 57.6000$

Test Statistic, high extreme of all data: $T_n = 4.7085$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	57.6000	False		1

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: $X_n = 1.0600$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 2.8527

Standard Deviation of all data: 3.7653

Largest Observation Concentration of all data: $X_n = 17.8000$

Test Statistic, high extreme of all data: $T_n = 3.9698$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	17.8000	False		1

Iron, total, mg/L

Location: APW-3

Mean of all data: 5.6473

Standard Deviation of all data: 3.0173

Largest Observation Concentration of all data: $X_n = 15.4000$

Test Statistic, high extreme of all data: $T_n = 3.2323$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/22/2023	15.4000	False		1

Iron, total, mg/L

Location: APW-4

Mean of all data: 12.3065

Standard Deviation of all data: 11.9323

Largest Observation Concentration of all data: $X_n = 70.3000$

Test Statistic, high extreme of all data: $T_n = 4.8602$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2021	70.3000	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.7709

Standard Deviation of all data: 1.1798

Largest Observation Concentration of all data: $X_n = 5.8000$

Test Statistic, high extreme of all data: $T_n = 4.2626$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	5.8000	False		1

Iron, total, mg/L

Location: APW-6

Mean of all data: 0.7087

Standard Deviation of all data: 0.7963

Largest Observation Concentration of all data: $X_n = 3.8200$

Test Statistic, high extreme of all data: $T_n = 3.9069$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	3.8200	False		1

Iron, total, mg/L

Location: APW-7

Mean of all data: 1.7808

Standard Deviation of all data: 6.3158

Largest Observation Concentration of all data: $X_n = 35.0000$

Test Statistic, high extreme of all data: $T_n = 5.2597$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	35.0000	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 2.2297

Standard Deviation of all data: 7.6787

Largest Observation Concentration of all data: $X_n = 41.7000$

Test Statistic, high extreme of all data: $T_n = 5.1402$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	41.7000	False		1

Iron, total, mg/L

Location: APW-9

Mean of all data: 0.9563

Standard Deviation of all data: 1.2196

Largest Observation Concentration of all data: $X_n = 5.0600$

Test Statistic, high extreme of all data: $T_n = 3.3647$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.5014$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0011$

Test Statistic, high extreme of all data: $T_n = 4.8000$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2021	0.0011	False		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0005$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0013$ Test Statistic, high extreme of all data: $T_n = 3.2451$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/21/2022	0.0013	False		1

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: $X_n = 0.0011$ Test Statistic, high extreme of all data: $T_n = 3.0557$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	0.0011	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0002

Largest Observation Concentration of all data: $X_n = 0.0013$

Test Statistic, high extreme of all data: $T_n = 3.5973$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: $X_n = 0.0017$

Test Statistic, high extreme of all data: $T_n = 3.8676$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0005$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0035

Standard Deviation of all data: 0.0041

Largest Observation Concentration of all data: $X_n = 0.0179$

Test Statistic, high extreme of all data: $T_n = 3.5089$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0179	False		1

Lead, total, mg/L

Location: APW-10

Mean of all data: 0.0035

Standard Deviation of all data: 0.0090

Largest Observation Concentration of all data: $X_n = 0.0469$

Test Statistic, high extreme of all data: $T_n = 4.8498$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.0469	False		1

Lead, total, mg/L

Location: APW-11

Mean of all data: 0.0038

Standard Deviation of all data: 0.0117

Largest Observation Concentration of all data: $X_n = 0.0605$

Test Statistic, high extreme of all data: $T_n = 4.8301$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0605	False		1

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0034

Standard Deviation of all data: 0.0087

Largest Observation Concentration of all data: $X_n = 0.0438$ Test Statistic, high extreme of all data: $T_n = 4.6409$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 0.0011$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*No Outliers***Lead, total, mg/L****Location: APW-2**

Mean of all data: 0.0008

Standard Deviation of all data: 0.0007

Largest Observation Concentration of all data: $X_n = 0.0039$ Test Statistic, high extreme of all data: $T_n = 4.1152$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/22/2023	0.0039	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0015

Largest Observation Concentration of all data: $X_n = 0.0068$

Test Statistic, high extreme of all data: $T_n = 3.6205$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0068	False		1

Lead, total, mg/L

Location: APW-4

Mean of all data: 0.0015

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: $X_n = 0.0058$

Test Statistic, high extreme of all data: $T_n = 2.6744$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Lead, total, mg/L

Location: APW-5

Mean of all data: 0.0012

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: $X_n = 0.0078$

Test Statistic, high extreme of all data: $T_n = 4.0114$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0078	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0040$

Test Statistic, high extreme of all data: $T_n = 3.7083$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0040	False		1

Lead, total, mg/L

Location: APW-7

Mean of all data: 0.0015

Standard Deviation of all data: 0.0049

Largest Observation Concentration of all data: $X_n = 0.0276$

Test Statistic, high extreme of all data: $T_n = 5.2792$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0276	False		1

Lead, total, mg/L

Location: APW-8

Mean of all data: 0.0028

Standard Deviation of all data: 0.0087

Largest Observation Concentration of all data: $X_n = 0.0484$

Test Statistic, high extreme of all data: $T_n = 5.2187$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0484	False		1

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0012

Standard Deviation of all data: 0.0013

Largest Observation Concentration of all data: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 3.0177$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0050	False		1

Manganese, dissolved, mg/L**Location: APW-1**

Mean of all data: 0.0053

Standard Deviation of all data: 0.0065

Largest Observation Concentration of all data: $X_n = 0.0282$ Test Statistic, high extreme of all data: $T_n = 3.5272$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/14/2024	0.0282	False		1

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

Mean of all data: 0.0053

Standard Deviation of all data: 0.0082

Largest Observation Concentration of all data: $X_n = 0.0452$ Test Statistic, high extreme of all data: $T_n = 4.8826$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/29/2019	0.0452	False		1

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0191

Standard Deviation of all data: 0.0485

Largest Observation Concentration of all data: $X_n = 0.2380$ Test Statistic, high extreme of all data: $T_n = 4.5119$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
08/27/2024	0.2380	False		1

Manganese, dissolved, mg/L

Location: APW-12

Mean of all data: 1.1823

Standard Deviation of all data: 0.3445

Largest Observation Concentration of all data: $X_n = 1.7400$ Test Statistic, high extreme of all data: $T_n = 1.6190$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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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: $X_n = 0.0035$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.4114

Standard Deviation of all data: 0.3143

Largest Observation Concentration of all data: $X_n = 1.0700$ Test Statistic, high extreme of all data: $T_n = 2.0952$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Manganese, dissolved, mg/L****Location: APW-3**

Mean of all data: 0.8397

Standard Deviation of all data: 0.3408

Largest Observation Concentration of all data: $X_n = 1.5500$ Test Statistic, high extreme of all data: $T_n = 2.0843$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Manganese, dissolved, mg/L****Location: APW-4**

Mean of all data: 1.8164

Standard Deviation of all data: 0.9198

Largest Observation Concentration of all data: $X_n = 5.4000$ Test Statistic, high extreme of all data: $T_n = 3.8959$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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10/28/2011	5.4000	False		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0042

Standard Deviation of all data: 0.0063

Largest Observation Concentration of all data: $X_n = 0.0400$

Test Statistic, high extreme of all data: $T_n = 5.7119$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
06/18/2012	0.0400	False		1

Manganese, dissolved, mg/L

Location: APW-6

Mean of all data: 0.0040

Standard Deviation of all data: 0.0036

Largest Observation Concentration of all data: $X_n = 0.0224$

Test Statistic, high extreme of all data: $T_n = 5.1615$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.0224	False		1

Manganese, dissolved, mg/L

Location: APW-7

Mean of all data: 0.0588

Standard Deviation of all data: 0.1295

Largest Observation Concentration of all data: $X_n = 0.6110$

Test Statistic, high extreme of all data: $T_n = 4.2643$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
06/28/2017	0.6110	False		1

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0035$ Test Statistic, high extreme of all data: $T_n = 0.3786$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Manganese, dissolved, mg/L****Location: APW-9**

Mean of all data: 0.0034

Standard Deviation of all data: 0.0011

Largest Observation Concentration of all data: $X_n = 0.0080$ Test Statistic, high extreme of all data: $T_n = 4.1527$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/26/2019	0.0080	False		1

Manganese, total, mg/L**Location: APW-1**

Mean of all data: 0.2948

Standard Deviation of all data: 0.4518

Largest Observation Concentration of all data: $X_n = 1.9400$ Test Statistic, high extreme of all data: $T_n = 3.6418$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	1.9400	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.2328

Standard Deviation of all data: 0.6574

Largest Observation Concentration of all data: $X_n = 3.4300$

Test Statistic, high extreme of all data: $T_n = 4.8631$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	3.4300	False		1

Manganese, total, mg/L

Location: APW-11

Mean of all data: 0.2545

Standard Deviation of all data: 0.7108

Largest Observation Concentration of all data: $X_n = 3.6900$

Test Statistic, high extreme of all data: $T_n = 4.8331$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	3.6900	False		1

Manganese, total, mg/L

Location: APW-12

Mean of all data: 2.6934

Standard Deviation of all data: 2.2315

Largest Observation Concentration of all data: $X_n = 12.0000$

Test Statistic, high extreme of all data: $T_n = 4.1706$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2021	12.0000	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0683$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Manganese, total, mg/L

Location: APW-2

Mean of all data: 0.3880

Standard Deviation of all data: 0.2682

Largest Observation Concentration of all data: $X_n = 1.1000$

Test Statistic, high extreme of all data: $T_n = 2.6547$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Manganese, total, mg/L

Location: APW-3

Mean of all data: 1.0319

Standard Deviation of all data: 0.2812

Largest Observation Concentration of all data: $X_n = 1.6400$

Test Statistic, high extreme of all data: $T_n = 2.1627$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 1.6687

Standard Deviation of all data: 0.3995

Largest Observation Concentration of all data: $X_n = 2.3500$

Test Statistic, high extreme of all data: $T_n = 1.7053$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/08/2023	0.4990	False	-1	

Manganese, total, mg/L

Location: APW-5

Mean of all data: 0.1251

Standard Deviation of all data: 0.2194

Largest Observation Concentration of all data: $X_n = 1.1500$

Test Statistic, high extreme of all data: $T_n = 4.6708$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	1.1500	False		1

Manganese, total, mg/L

Location: APW-6

Mean of all data: 0.0476

Standard Deviation of all data: 0.0503

Largest Observation Concentration of all data: $X_n = 0.2330$

Test Statistic, high extreme of all data: $T_n = 3.6872$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.2330	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.1738

Standard Deviation of all data: 0.3658

Largest Observation Concentration of all data: $X_n = 1.9200$

Test Statistic, high extreme of all data: $T_n = 4.7735$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	1.9200	False		1

Manganese, total, mg/L

Location: APW-8

Mean of all data: 0.1603

Standard Deviation of all data: 0.4901

Largest Observation Concentration of all data: $X_n = 2.7100$

Test Statistic, high extreme of all data: $T_n = 5.2024$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	2.7100	False		1

Manganese, total, mg/L

Location: APW-9

Mean of all data: 0.0971

Standard Deviation of all data: 0.1323

Largest Observation Concentration of all data: $X_n = 0.5250$

Test Statistic, high extreme of all data: $T_n = 3.2353$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.5250	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.5014$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.4765$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$ Test Statistic, high extreme of all data: $T_n = 0.4765$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0001$ Test Statistic, high extreme of all data: $T_n = 0.4410$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0001$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0001$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0025

Standard Deviation of all data: 0.0022

Largest Observation Concentration of all data: $X_n = 0.0140$

Test Statistic, high extreme of all data: $T_n = 5.3183$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/24/2011	0.0140	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-12

Mean of all data: 0.0067

Standard Deviation of all data: 0.0026

Largest Observation Concentration of all data: $X_n = 0.0109$

Test Statistic, high extreme of all data: $T_n = 1.6211$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Nickel, dissolved, mg/L

Location: APW-2

Mean of all data: 0.0035

Standard Deviation of all data: 0.0028

Largest Observation Concentration of all data: $X_n = 0.0120$

Test Statistic, high extreme of all data: $T_n = 3.0434$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/24/2011	0.0120	False		1

Nickel, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0032

Standard Deviation of all data: 0.0026

Largest Observation Concentration of all data: $X_n = 0.0120$

Test Statistic, high extreme of all data: $T_n = 3.4182$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/17/2012	0.0120	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0036

Standard Deviation of all data: 0.0034

Largest Observation Concentration of all data: $X_n = 0.0190$

Test Statistic, high extreme of all data: $T_n = 4.5737$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: 0.0018

Largest Observation Concentration of all data: $X_n = 0.0100$

Test Statistic, high extreme of all data: $T_n = 4.0561$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: $X_n = 0.0025$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
<i>No Outliers</i>				

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0025$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Nickel, dissolved, mg/L****Location: APW-9**

Mean of all data: 0.0037

Standard Deviation of all data: 0.0029

Largest Observation Concentration of all data: $X_n = 0.0119$ Test Statistic, high extreme of all data: $T_n = 2.8832$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.0119	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0106

Standard Deviation of all data: 0.0133

Largest Observation Concentration of all data: $X_n = 0.0583$

Test Statistic, high extreme of all data: $T_n = 3.5997$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0583	False		1

Nickel, total, mg/L

Location: APW-10

Mean of all data: 0.0104

Standard Deviation of all data: 0.0307

Largest Observation Concentration of all data: $X_n = 0.1600$

Test Statistic, high extreme of all data: $T_n = 4.8720$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.1600	False		1

Nickel, total, mg/L

Location: APW-11

Mean of all data: 0.0106

Standard Deviation of all data: 0.0293

Largest Observation Concentration of all data: $X_n = 0.1520$

Test Statistic, high extreme of all data: $T_n = 4.8254$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.1520	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0158

Standard Deviation of all data: 0.0191

Largest Observation Concentration of all data: $X_n = 0.1040$ Test Statistic, high extreme of all data: $T_n = 4.6262$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 0.0056$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Nickel, total, mg/L****Location: APW-2**

Mean of all data: 0.0032

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: $X_n = 0.0078$ Test Statistic, high extreme of all data: $T_n = 2.9404$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0078	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0030

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: $X_n = 0.0091$

Test Statistic, high extreme of all data: $T_n = 3.5826$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0091	False		1

Nickel, total, mg/L

Location: APW-4

Mean of all data: 0.0031

Standard Deviation of all data: 0.0020

Largest Observation Concentration of all data: $X_n = 0.0107$

Test Statistic, high extreme of all data: $T_n = 3.7688$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/21/2017	0.0107	False		1

Nickel, total, mg/L

Location: APW-5

Mean of all data: 0.0047

Standard Deviation of all data: 0.0061

Largest Observation Concentration of all data: $X_n = 0.0332$

Test Statistic, high extreme of all data: $T_n = 4.6812$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0332	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0030

Standard Deviation of all data: 0.0016

Largest Observation Concentration of all data: $X_n = 0.0103$

Test Statistic, high extreme of all data: $T_n = 4.4435$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0103	False		1

Nickel, total, mg/L

Location: APW-7

Mean of all data: 0.0041

Standard Deviation of all data: 0.0072

Largest Observation Concentration of all data: $X_n = 0.0417$

Test Statistic, high extreme of all data: $T_n = 5.1915$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0417	False		1

Nickel, total, mg/L

Location: APW-8

Mean of all data: 0.0076

Standard Deviation of all data: 0.0212

Largest Observation Concentration of all data: $X_n = 0.1200$

Test Statistic, high extreme of all data: $T_n = 5.3106$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.1200	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0060

Standard Deviation of all data: 0.0051

Largest Observation Concentration of all data: $X_n = 0.0194$ Test Statistic, high extreme of all data: $T_n = 2.6340$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Nitrate nitrogen, dissolved, mg/L****Location: APW-1**

Mean of all data: 3.876

Standard Deviation of all data: 1.470

Largest Observation Concentration of all data: $X_n = 8.240$ Test Statistic, high extreme of all data: $T_n = 2.968$ T Critical of all data: $T_{cr} = 2.857$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/05/2018	8.240	False		1

Nitrate nitrogen, dissolved, mg/L**Location: APW-10**

Mean of all data: 2.815

Standard Deviation of all data: 0.744

Largest Observation Concentration of all data: $X_n = 4.530$ Test Statistic, high extreme of all data: $T_n = 2.305$ T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 3.117

Standard Deviation of all data: 1.133

Largest Observation Concentration of all data: $X_n = 5.470$ Test Statistic, high extreme of all data: $T_n = 2.077$ T Critical of all data: $T_{cr} = 2.681$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Nitrate nitrogen, dissolved, mg/L****Location: APW-12**

Mean of all data: 1.387

Standard Deviation of all data: 1.599

Largest Observation Concentration of all data: $X_n = 5.500$ Test Statistic, high extreme of all data: $T_n = 2.572$ T Critical of all data: $T_{cr} = 2.663$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***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: $X_n = 4.620$ Test Statistic, high extreme of all data: $T_n = 0.000$ T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.046

Standard Deviation of all data: 0.078

Largest Observation Concentration of all data: $X_n = 0.400$

Test Statistic, high extreme of all data: $T_n = 4.529$

T Critical of all data: $T_{cr} = 2.835$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2010	0.400	False		1

Nitrate nitrogen, dissolved, mg/L

Location: APW-3

Mean of all data: 0.034

Standard Deviation of all data: 0.078

Largest Observation Concentration of all data: $X_n = 0.490$

Test Statistic, high extreme of all data: $T_n = 5.864$

T Critical of all data: $T_{cr} = 2.835$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2010	0.490	False		1

Nitrate nitrogen, dissolved, mg/L

Location: APW-4

Mean of all data: 0.320

Standard Deviation of all data: 0.939

Largest Observation Concentration of all data: $X_n = 4.160$

Test Statistic, high extreme of all data: $T_n = 4.090$

T Critical of all data: $T_{cr} = 2.823$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/13/2024	4.160	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 2.296

Standard Deviation of all data: 0.703

Largest Observation Concentration of all data: $X_n = 4.290$ Test Statistic, high extreme of all data: $T_n = 2.837$ T Critical of all data: $T_{cr} = 2.857$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Nitrate nitrogen, dissolved, mg/L****Location: APW-6**

Mean of all data: 0.383

Standard Deviation of all data: 0.370

Largest Observation Concentration of all data: $X_n = 2.130$ Test Statistic, high extreme of all data: $T_n = 4.718$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	2.130	False		1

Nitrate nitrogen, dissolved, mg/L**Location: APW-7**

Mean of all data: 1.936

Standard Deviation of all data: 1.697

Largest Observation Concentration of all data: $X_n = 5.470$ Test Statistic, high extreme of all data: $T_n = 2.083$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 4.150

Standard Deviation of all data: 0.750

Largest Observation Concentration of all data: $X_n = 5.770$ Test Statistic, high extreme of all data: $T_n = 2.160$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Nitrate nitrogen, dissolved, mg/L****Location: APW-9**

Mean of all data: 3.175

Standard Deviation of all data: 1.200

Largest Observation Concentration of all data: $X_n = 8.330$ Test Statistic, high extreme of all data: $T_n = 4.295$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
07/29/2020	8.330	False		1

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: $X_n = 0.03$ Test Statistic, high extreme of all data: $T_n = 0.00$ T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.03$ Test Statistic, high extreme of all data: $T_n = 0.00$ T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Nitrite nitrogen, dissolved, mg/L****Location: APW-11**

Mean of all data: 0.03

Standard Deviation of all data: 0.02

Largest Observation Concentration of all data: $X_n = 0.10$ Test Statistic, high extreme of all data: $T_n = 4.69$ T Critical of all data: $T_{cr} = 2.64$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/10/2024	0.10	False		1

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: $X_n = 0.07$ Test Statistic, high extreme of all data: $T_n = 3.74$ T Critical of all data: $T_{cr} = 2.66$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
02/17/2020	0.07	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.03$ Test Statistic, high extreme of all data: $T_n = 0.00$ T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.03$ Test Statistic, high extreme of all data: $T_n = 0.00$ T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.03$ Test Statistic, high extreme of all data: $T_n = 0.00$ T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.03$

Test Statistic, high extreme of all data: $T_n = 0.00$

T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.28

Largest Observation Concentration of all data: $X_n = 7.83$

Test Statistic, high extreme of all data: $T_n = 2.95$

T Critical of all data: $T_{cr} = 2.85$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/24/2011	7.83	False		1

pH (field), STD

Location: APW-10

Mean of all data: 7.53

Standard Deviation of all data: 0.14

Largest Observation Concentration of all data: $X_n = 7.75$

Test Statistic, high extreme of all data: $T_n = 1.60$

T Critical of all data: $T_{cr} = 2.68$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 7.57$

Test Statistic, high extreme of all data: $T_n = 1.32$

T Critical of all data: $T_{cr} = 2.68$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.18

Largest Observation Concentration of all data: $X_n = 7.24$ Test Statistic, high extreme of all data: $T_n = 1.92$ T Critical of all data: $T_{cr} = 2.66$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 7.06$ Test Statistic, high extreme of all data: $T_n = 0.00$ T Critical of all data: $T_{cr} = 0.00$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***pH (field), STD****Location: APW-2**

Mean of all data: 6.85

Standard Deviation of all data: 0.25

Largest Observation Concentration of all data: $X_n = 7.41$ Test Statistic, high extreme of all data: $T_n = 2.24$ T Critical of all data: $T_{cr} = 2.82$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2010	5.98	False	-1	
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 7.46

Standard Deviation of all data: 0.34

Largest Observation Concentration of all data: $X_n = 8.36$ Test Statistic, high extreme of all data: $T_n = 2.64$ T Critical of all data: $T_{cr} = 2.82$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***pH (field), STD****Location: APW-4**

Mean of all data: 6.86

Standard Deviation of all data: 0.24

Largest Observation Concentration of all data: $X_n = 7.42$ Test Statistic, high extreme of all data: $T_n = 2.32$ T Critical of all data: $T_{cr} = 2.81$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	5.88	False	-1	

pH (field), STD**Location: APW-5**

Mean of all data: 7.36

Standard Deviation of all data: 0.24

Largest Observation Concentration of all data: $X_n = 7.91$ Test Statistic, high extreme of all data: $T_n = 2.32$ T Critical of all data: $T_{cr} = 2.85$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	6.44	False	-1	

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 7.14

Standard Deviation of all data: 0.17

Largest Observation Concentration of all data: $X_n = 7.53$ Test Statistic, high extreme of all data: $T_n = 2.25$ T Critical of all data: $T_{cr} = 2.76$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***pH (field), STD****Location: APW-7**

Mean of all data: 6.98

Standard Deviation of all data: 0.16

Largest Observation Concentration of all data: $X_n = 7.16$ Test Statistic, high extreme of all data: $T_n = 1.15$ T Critical of all data: $T_{cr} = 2.74$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
04/25/2023	6.50	False	-1	

pH (field), STD**Location: APW-8**

Mean of all data: 7.33

Standard Deviation of all data: 0.15

Largest Observation Concentration of all data: $X_n = 7.56$ Test Statistic, high extreme of all data: $T_n = 1.52$ T Critical of all data: $T_{cr} = 2.76$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
04/26/2023	6.89	False	-1	

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 6.95

Standard Deviation of all data: 0.16

Largest Observation Concentration of all data: $X_n = 7.24$

Test Statistic, high extreme of all data: $T_n = 1.85$

T Critical of all data: $T_{cr} = 2.74$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-1

Mean of all data: 0.0162

Standard Deviation of all data: 0.0077

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.5009$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0210

Standard Deviation of all data: 0.0050

Largest Observation Concentration of all data: $X_n = 0.0453$ Test Statistic, high extreme of all data: $T_n = 4.9029$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0873$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0165

Standard Deviation of all data: 0.0074

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.4746$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-3

Mean of all data: 0.0164

Standard Deviation of all data: 0.0075

Largest Observation Concentration of all data: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.4755$

T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Selenium, dissolved, mg/L

Location: APW-4

Mean of all data: 0.0192

Standard Deviation of all data: 0.0042

Largest Observation Concentration of all data: $X_n = 0.0300$

Test Statistic, high extreme of all data: $T_n = 2.5764$

T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2010	<0.0000	True	-1	

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0163

Standard Deviation of all data: 0.0075

Largest Observation Concentration of all data: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.5000$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Selenium, dissolved, mg/L****Location: APW-6**

Mean of all data: 0.0207

Standard Deviation of all data: 0.0041

Largest Observation Concentration of all data: $X_n = 0.0428$ Test Statistic, high extreme of all data: $T_n = 5.3882$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/26/2024	0.0428	False		1

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: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0654

Standard Deviation of all data: 0.0222

Largest Observation Concentration of all data: $X_n = 0.0963$

Test Statistic, high extreme of all data: $T_n = 1.3927$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Selenium, total, mg/L****Location: APW-11**

Mean of all data: 0.0211

Standard Deviation of all data: 0.0055

Largest Observation Concentration of all data: $X_n = 0.0479$ Test Statistic, high extreme of all data: $T_n = 4.9029$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	0.0479	False		1

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: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0892$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0200$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Selenium, total, mg/L****Location: APW-8**

Mean of all data: 0.0715

Standard Deviation of all data: 0.0186

Largest Observation Concentration of all data: $X_n = 0.1110$ Test Statistic, high extreme of all data: $T_n = 2.1194$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/28/2024	<0.0200	True	-1	

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: $X_n = 0.0200$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.581$

T Critical of all data: $T_{cr} = 2.857$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.561$

T Critical of all data: $T_{cr} = 2.835$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.561$

T Critical of all data: $T_{cr} = 2.835$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.530$

T Critical of all data: $T_{cr} = 2.823$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.581$

T Critical of all data: $T_{cr} = 2.857$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.379$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.386$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.379$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.386$

T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.379$

T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.000$

T Critical of all data: $T_{cr} = 0.000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.386$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.386$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.386$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.379$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.379$ T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.004$ Test Statistic, high extreme of all data: $T_n = 0.386$ T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.379$

T Critical of all data: $T_{cr} = 2.759$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.004$

Test Statistic, high extreme of all data: $T_n = 0.386$

T Critical of all data: $T_{cr} = 2.745$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-1

Mean of all data: 483

Standard Deviation of all data: 180

Largest Observation Concentration of all data: $X_n = 1030$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/17/2021	1030	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 546

Standard Deviation of all data: 105

Largest Observation Concentration of all data: $X_n = 809$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-11

Mean of all data: 644

Standard Deviation of all data: 187

Largest Observation Concentration of all data: $X_n = 1100$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-12

Mean of all data: 775

Standard Deviation of all data: 158

Largest Observation Concentration of all data: $X_n = 1138$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 1120$

Test Statistic, high extreme of all data: $T_n = 0$

T Critical of all data: $T_{cr} = 0$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-2

Mean of all data: 744

Standard Deviation of all data: 195

Largest Observation Concentration of all data: $X_n = 1152$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-3

Mean of all data: 1112

Standard Deviation of all data: 188

Largest Observation Concentration of all data: $X_n = 1640$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	1640	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 803

Standard Deviation of all data: 110

Largest Observation Concentration of all data: Xn = 976

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-5

Mean of all data: 528

Standard Deviation of all data: 87

Largest Observation Concentration of all data: Xn = 715

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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12/13/2010	267	False	-1	
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Specific Conductance @ 25C (field), micromhos/cm

Location: APW-6

Mean of all data: 572

Standard Deviation of all data: 113

Largest Observation Concentration of all data: Xn = 806

Test Statistic, high extreme of all data: Tn = 2

T Critical of all data: Tcr = 3

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 651

Standard Deviation of all data: 92

Largest Observation Concentration of all data: $X_n = 882$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-8

Mean of all data: 931

Standard Deviation of all data: 148

Largest Observation Concentration of all data: $X_n = 1240$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Specific Conductance @ 25C (field), micromhos/cm

Location: APW-9

Mean of all data: 1231

Standard Deviation of all data: 277

Largest Observation Concentration of all data: $X_n = 1740$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 33$

Test Statistic, high extreme of all data: $T_n = 4$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/24/2011	33	False		1

Sulfate, dissolved, mg/L

Location: APW-10

Mean of all data: 81

Standard Deviation of all data: 25

Largest Observation Concentration of all data: $X_n = 126$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Sulfate, dissolved, mg/L

Location: APW-11

Mean of all data: 101

Standard Deviation of all data: 68

Largest Observation Concentration of all data: $X_n = 309$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
01/26/2021	309	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 16

Largest Observation Concentration of all data: $X_n = 96$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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: $X_n = 205$

Test Statistic, high extreme of all data: $T_n = 0$

T Critical of all data: $T_{cr} = 0$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Sulfate, dissolved, mg/L

Location: APW-2

Mean of all data: 19

Standard Deviation of all data: 15

Largest Observation Concentration of all data: $X_n = 67$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/27/2018	67	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 123

Standard Deviation of all data: 99

Largest Observation Concentration of all data: $X_n = 310$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Sulfate, dissolved, mg/L****Location: APW-4**

Mean of all data: 27

Standard Deviation of all data: 12

Largest Observation Concentration of all data: $X_n = 53$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Sulfate, dissolved, mg/L****Location: APW-5**

Mean of all data: 29

Standard Deviation of all data: 18

Largest Observation Concentration of all data: $X_n = 83$ Test Statistic, high extreme of all data: $T_n = 3$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/27/2018	83	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 38$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Sulfate, dissolved, mg/L****Location: APW-7**

Mean of all data: 29

Standard Deviation of all data: 7

Largest Observation Concentration of all data: $X_n = 41$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Sulfate, dissolved, mg/L****Location: APW-8**

Mean of all data: 271

Standard Deviation of all data: 80

Largest Observation Concentration of all data: $X_n = 421$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 420

Standard Deviation of all data: 143

Largest Observation Concentration of all data: $X_n = 757$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.6230$

T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0008

Standard Deviation of all data: 0.0004

Largest Observation Concentration of all data: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.6054$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.5651$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.5753$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.6230$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.3786$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.3856$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.3786$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.3856$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.3786$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0024$ Test Statistic, high extreme of all data: $T_n = 4.8000$ T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.0024	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0010$ Test Statistic, high extreme of all data: $T_n = 0.3856$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0021$ Test Statistic, high extreme of all data: $T_n = 4.1186$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
08/06/2021	0.0021	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.3856$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.3786$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.3786$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.3856$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.3786$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0010$

Test Statistic, high extreme of all data: $T_n = 0.3856$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 237

Standard Deviation of all data: 78

Largest Observation Concentration of all data: $X_n = 420$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Total Dissolved Solids, mg/L

Location: APW-10

Mean of all data: 323

Standard Deviation of all data: 43

Largest Observation Concentration of all data: $X_n = 408$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Total Dissolved Solids, mg/L

Location: APW-11

Mean of all data: 384

Standard Deviation of all data: 132

Largest Observation Concentration of all data: $X_n = 812$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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01/26/2021	812	False		1
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Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 92

Largest Observation Concentration of all data: $X_n = 730$ Test Statistic, high extreme of all data: $T_n = 3$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: $X_n = 624$ Test Statistic, high extreme of all data: $T_n = 0$ T Critical of all data: $T_{cr} = 0$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*No Outliers***Total Dissolved Solids, mg/L****Location: APW-2**

Mean of all data: 434

Standard Deviation of all data: 111

Largest Observation Concentration of all data: $X_n = 630$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 708

Standard Deviation of all data: 87

Largest Observation Concentration of all data: $X_n = 970$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/17/2012	970	False		1

Total Dissolved Solids, mg/L

Location: APW-4

Mean of all data: 455

Standard Deviation of all data: 73

Largest Observation Concentration of all data: $X_n = 690$

Test Statistic, high extreme of all data: $T_n = 3$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
06/18/2012	690	False		1

Total Dissolved Solids, mg/L

Location: APW-5

Mean of all data: 280

Standard Deviation of all data: 58

Largest Observation Concentration of all data: $X_n = 382$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 309

Standard Deviation of all data: 48

Largest Observation Concentration of all data: $X_n = 404$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Total Dissolved Solids, mg/L****Location: APW-7**

Mean of all data: 354

Standard Deviation of all data: 43

Largest Observation Concentration of all data: $X_n = 464$ Test Statistic, high extreme of all data: $T_n = 3$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Total Dissolved Solids, mg/L****Location: APW-8**

Mean of all data: 630

Standard Deviation of all data: 103

Largest Observation Concentration of all data: $X_n = 832$ Test Statistic, high extreme of all data: $T_n = 2$ T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 912

Standard Deviation of all data: 241

Largest Observation Concentration of all data: $X_n = 1430$

Test Statistic, high extreme of all data: $T_n = 2$

T Critical of all data: $T_{cr} = 3$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Vanadium, total, mg/L

Location: APW-1

Mean of all data: 0.0061

Standard Deviation of all data: 0.0038

Largest Observation Concentration of all data: $X_n = 0.0205$

Test Statistic, high extreme of all data: $T_n = 3.7647$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
03/21/2018	0.0205	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0072

Standard Deviation of all data: 0.0112

Largest Observation Concentration of all data: $X_n = 0.0622$

Test Statistic, high extreme of all data: $T_n = 4.9029$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.0622	False		1

Vanadium, total, mg/L

Location: APW-11

Mean of all data: 0.0082

Standard Deviation of all data: 0.0145

Largest Observation Concentration of all data: $X_n = 0.0790$

Test Statistic, high extreme of all data: $T_n = 4.8706$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.0790	False		1

Vanadium, total, mg/L

Location: APW-12

Mean of all data: 0.0089

Standard Deviation of all data: 0.0170

Largest Observation Concentration of all data: $X_n = 0.0894$

Test Statistic, high extreme of all data: $T_n = 4.7382$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2021	0.0894	False		1

Based on Grubbs one-sided outlier test

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Vanadium, total, mg/L****Location: APW-2**

Mean of all data: 0.0052

Standard Deviation of all data: 0.0012

Largest Observation Concentration of all data: $X_n = 0.0114$ Test Statistic, high extreme of all data: $T_n = 5.2947$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0114	False		1

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

Mean of all data: 0.0056

Standard Deviation of all data: 0.0025

Largest Observation Concentration of all data: $X_n = 0.0160$ Test Statistic, high extreme of all data: $T_n = 4.2059$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
09/22/2023	0.0160	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0058

Standard Deviation of all data: 0.0025

Largest Observation Concentration of all data: $X_n = 0.0152$ Test Statistic, high extreme of all data: $T_n = 3.7871$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier 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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0069

Standard Deviation of all data: 0.0104

Largest Observation Concentration of all data: $X_n = 0.0618$

Test Statistic, high extreme of all data: $T_n = 5.2947$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0618	False		1

Vanadium, total, mg/L

Location: APW-8

Mean of all data: 0.0070

Standard Deviation of all data: 0.0087

Largest Observation Concentration of all data: $X_n = 0.0522$

Test Statistic, high extreme of all data: $T_n = 5.1769$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0043

Standard Deviation of all data: 0.0028

Largest Observation Concentration of all data: $X_n = 0.0162$ Test Statistic, high extreme of all data: $T_n = 4.2197$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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*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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Zinc, dissolved, mg/L****Location: APW-2**

Mean of all data: 0.0042

Standard Deviation of all data: 0.0019

Largest Observation Concentration of all data: $X_n = 0.0064$ Test Statistic, high extreme of all data: $T_n = 1.1441$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0044

Standard Deviation of all data: 0.0023

Largest Observation Concentration of all data: $X_n = 0.0120$ Test Statistic, high extreme of all data: $T_n = 3.3648$ T Critical of all data: $T_{cr} = 2.8350$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
06/18/2012	0.0120	False		1

Zinc, dissolved, mg/L**Location: APW-4**

Mean of all data: 0.0044

Standard Deviation of all data: 0.0018

Largest Observation Concentration of all data: $X_n = 0.0072$ Test Statistic, high extreme of all data: $T_n = 1.5604$ T Critical of all data: $T_{cr} = 2.8230$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Zinc, dissolved, mg/L****Location: APW-5**

Mean of all data: 0.0040

Standard Deviation of all data: 0.0020

Largest Observation Concentration of all data: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.5014$ T Critical of all data: $T_{cr} = 2.8570$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Zinc, dissolved, mg/L****Location: APW-7**

Mean of all data: 0.0053

Standard Deviation of all data: 0.0017

Largest Observation Concentration of all data: $X_n = 0.0143$ Test Statistic, high extreme of all data: $T_n = 5.2947$ T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0143	False		1

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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: $X_n = 0.0050$ Test Statistic, high extreme of all data: $T_n = 0.0000$ T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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*No Outliers***Zinc, total, mg/L****Location: APW-1**

Mean of all data: 0.0118

Standard Deviation of all data: 0.0142

Largest Observation Concentration of all data: $X_n = 0.0680$ Test Statistic, high extreme of all data: $T_n = 3.9496$ T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/13/2024	0.0680	False		1

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

Mean of all data: 0.0133

Standard Deviation of all data: 0.0320

Largest Observation Concentration of all data: $X_n = 0.1680$ Test Statistic, high extreme of all data: $T_n = 4.8324$ T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
11/11/2021	0.1680	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0145

Standard Deviation of all data: 0.0361

Largest Observation Concentration of all data: $X_n = 0.1890$

Test Statistic, high extreme of all data: $T_n = 4.8316$

T Critical of all data: $T_{cr} = 2.6810$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/09/2019	0.1890	False		1

Zinc, total, mg/L

Location: APW-12

Mean of all data: 0.0145

Standard Deviation of all data: 0.0361

Largest Observation Concentration of all data: $X_n = 0.1850$

Test Statistic, high extreme of all data: $T_n = 4.7274$

T Critical of all data: $T_{cr} = 2.6630$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
12/13/2021	0.1850	False		1

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: $X_n = 0.0050$

Test Statistic, high extreme of all data: $T_n = 0.0000$

T Critical of all data: $T_{cr} = 0.0000$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	<u>Outlier Low Side</u>	<u>Outlier High Side</u>
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No Outliers

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0052

Largest Observation Concentration of all data: $X_n = 0.0265$

Test Statistic, high extreme of all data: $T_n = 3.8072$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
11/11/2021	0.0265	False		1

Zinc, total, mg/L

Location: APW-3

Mean of all data: 0.0081

Standard Deviation of all data: 0.0077

Largest Observation Concentration of all data: $X_n = 0.0371$

Test Statistic, high extreme of all data: $T_n = 3.7641$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/22/2023	0.0371	False		1

Zinc, total, mg/L

Location: APW-4

Mean of all data: 0.0096

Standard Deviation of all data: 0.0086

Largest Observation Concentration of all data: $X_n = 0.0369$

Test Statistic, high extreme of all data: $T_n = 3.1737$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/13/2021	0.0369	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0059

Standard Deviation of all data: 0.0028

Largest Observation Concentration of all data: $X_n = 0.0173$

Test Statistic, high extreme of all data: $T_n = 4.1205$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
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: 0.0015

Largest Observation Concentration of all data: $X_n = 0.0133$

Test Statistic, high extreme of all data: $T_n = 5.3882$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0133	False		1

Zinc, total, mg/L

Location: APW-7

Mean of all data: 0.0082

Standard Deviation of all data: 0.0165

Largest Observation Concentration of all data: $X_n = 0.0953$

Test Statistic, high extreme of all data: $T_n = 5.2814$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
09/19/2017	0.0953	False		1

Meredosia Power Station Outlier Analysis Results

User Supplied Information

Date Range: 12/13/2010 to 11/14/2024

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: 0.0107

Standard Deviation of all data: 0.0254

Largest Observation Concentration of all data: $X_n = 0.1450$

Test Statistic, high extreme of all data: $T_n = 5.2896$

T Critical of all data: $T_{cr} = 2.7590$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
12/09/2019	0.1450	False		1

Zinc, total, mg/L

Location: APW-9

Mean of all data: 0.0058

Standard Deviation of all data: 0.0026

Largest Observation Concentration of all data: $X_n = 0.0154$

Test Statistic, high extreme of all data: $T_n = 3.6836$

T Critical of all data: $T_{cr} = 2.7450$

<u>Sample Date</u>	<u>Value</u>	<u>LT_Value</u>	Outlier <u>Low Side</u>	Outlier <u>High Side</u>
03/21/2018	0.0154	False		1

APPENDIX B3
SEN SLOPE AND MANN-KENDALL TEST RESULTS - SHORT TERM

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.14	

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

S Statistic:	0.37
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.122	mg/L per period
R-Squared error of fit:	0.223	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.120	mg/L per period
Lower Confidence Limit of Slope, M1:	-.156	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.291	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00371	mg/L per period
R-Squared error of fit:	0.308	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00261	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00183	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00670	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.499
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.138	mg/L per period
R-Squared error of fit:	0.0418	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.114	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0980	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0541	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00848	mg/L per period
R-Squared error of fit:	0.627	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00800	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0128	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00174	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.75
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000145	mg/L per period
R-Squared error of fit:	0.000958	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000523	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000420	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000211	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.748
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000918	mg/L per period
R-Squared error of fit:	0.369	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000238	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000117	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000362	mg/L per period
R-Squared error of fit:	0.109	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000307	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000112	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000960	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.748
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000350	mg/L per period
R-Squared error of fit:	0.338	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000218	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000230	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000603	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000290	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000508	mg/L per period
R-Squared error of fit:	0.619	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000449	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000868	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000251	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.35
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000134	mg/L per period
R-Squared error of fit:	0.000342	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00000802	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000489	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000866	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000603	mg/L per period
R-Squared error of fit:	0.0598	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000287	mg/L per period
R-Squared error of fit:	0.398	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000102	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000454	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000424	mg/L per period
R-Squared error of fit:	0.335	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000230	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.97
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0143	mg/L per period
R-Squared error of fit:	0.374	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00452	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000138	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0230	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000135	mg/L per period
R-Squared error of fit:	0.349	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000559	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000164	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000276	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.764
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00181	mg/L per period
R-Squared error of fit:	0.420	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000647	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0000809	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00314	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000374	mg/L per period
R-Squared error of fit:	0.639	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000299	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000518	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.20
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000364	mg/L per period
R-Squared error of fit:	0.258	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000822	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000112	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000716	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.509
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000119	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000491	mg/L per period
R-Squared error of fit:	0.261	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000463	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000965	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.29
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

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:	0.00	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

S Statistic:	0.37
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.100	mg/L per period
R-Squared error of fit:	0.352	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.123	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.230	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0340	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000524	mg/L per period
R-Squared error of fit:	0.259	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000430	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00118	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000740	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000179	mg/L per period
R-Squared error of fit:	0.0120	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00114	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.290
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0758	mg/L per period
R-Squared error of fit:	0.565	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0981	mg/L per period
Lower Confidence Limit of Slope, M1:	-.137	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0230	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000289	mg/L per period
R-Squared error of fit:	0.526	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000404	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.83
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000176	mg/L per period
R-Squared error of fit:	0.476	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000152	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000323	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:	-1.93
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000386	mg/L per period
R-Squared error of fit:	0.000183	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000000302	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000216	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000354	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.249
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000618	mg/L per period
R-Squared error of fit:	0.477	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00000419	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000109	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.000000560	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.88
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000168	mg/L per period
R-Squared error of fit:	0.0212	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000271	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000998	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000127	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.124
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00145	mg/L per period
R-Squared error of fit:	0.658	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00149	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00253	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000444	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00107	mg/L per period
R-Squared error of fit:	0.417	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000861	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00223	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000107	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.25
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000133	mg/L per period
R-Squared error of fit:	0.0608	

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:	0.0	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:	-0.500
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000411	mg/L per period
R-Squared error of fit:	0.338	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000233	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.97
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-10	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00139	mg/L per period
R-Squared error of fit:	0.129	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000347	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000917	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00441	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000490	mg/L per period
R-Squared error of fit:	0.0162	

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:	-.00000218	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000347	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.268
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000912	mg/L per period
R-Squared error of fit:	0.175	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000425	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000550	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000252	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
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R-Squared error of fit:	0.0	
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0	
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Z test:	1.64	
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At the 95.0 % Confidence Level (two-tailed test):	None	
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000204	mg/L per period
R-Squared error of fit:	0.417	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000304	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.97
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000548	mg/L per period
R-Squared error of fit:	0.202	

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:	0.0	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:	-0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.06	
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		
S Statistic:	-0.37	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0359	mg/L per period
R-Squared error of fit:	0.00847	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.145	mg/L per period
Lower Confidence Limit of Slope, M1:	-.282	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.324	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000308	mg/L per period
R-Squared error of fit:	0.0725	

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:	0.0	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:	0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00541	mg/L per period
R-Squared error of fit:	0.671	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00525	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00900	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000559	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000539	mg/L per period
R-Squared error of fit:	0.00277	

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:	-.00654	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00407	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.155	mg/L per period
R-Squared error of fit:	0.495	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.101	mg/L per period
Lower Confidence Limit of Slope, M1:	-.260	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0515	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.11
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000289	mg/L per period
R-Squared error of fit:	0.524	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000404	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.83
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000451	mg/L per period
R-Squared error of fit:	0.350	

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:	0.0	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:	-1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000864	mg/L per period
R-Squared error of fit:	0.110	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000378	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000927	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000212	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.00000119	mg/L per period
R-Squared error of fit:	0.00718	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.000000508	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000144	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000188	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-.124	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00332	mg/L per period
R-Squared error of fit:	0.604	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00355	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00533	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000437	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-11	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00244	mg/L per period
R-Squared error of fit:	0.427	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00260	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00611	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00109	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.11
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000244	mg/L per period
R-Squared error of fit:	0.350	

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:	0.0	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:	-1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000414	mg/L per period
R-Squared error of fit:	0.295	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-11	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000142	mg/L per period
R-Squared error of fit:	0.295	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000245	mg/L per period
R-Squared error of fit:	0.183	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000276	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000926	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000139	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000284	mg/L per period
R-Squared error of fit:	0.220	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000855	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00000237	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000725	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000155	mg/L per period
R-Squared error of fit:	0.191	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000924	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.32
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-11	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000696	mg/L per period
R-Squared error of fit:	0.295	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.11	
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		
S Statistic:	0.00	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0728	mg/L per period
R-Squared error of fit:	0.116	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0876	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.264	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.123	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000356	mg/L per period
R-Squared error of fit:	0.00234	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00186	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00789	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00497	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00186	mg/L per period
R-Squared error of fit:	0.00112	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00417	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0261	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0362	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.124
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0151	mg/L per period
R-Squared error of fit:	0.151	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0173	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0436	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0200	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000942	mg/L per period
R-Squared error of fit:	0.457	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000123	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000183	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:	-1.63
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000251	mg/L per period
R-Squared error of fit:	0.0748	
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:	0.0	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:	0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000207	mg/L per period
R-Squared error of fit:	0.270	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000160	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000521	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:	-1.67
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000751	mg/L per period
R-Squared error of fit:	0.471	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000689	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000156	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00000642	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000438	mg/L per period
R-Squared error of fit:	0.0976	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000308	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000213	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000630	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000751	mg/L per period
R-Squared error of fit:	0.168	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000657	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000270	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000109	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000837	mg/L per period
R-Squared error of fit:	0.172	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000107	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000277	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000170	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000303	mg/L per period
R-Squared error of fit:	0.0243	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000356	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000152	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000175	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.249
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000480	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-12	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000977	mg/L per period
R-Squared error of fit:	0.179	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000488	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000143	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00225	mg/L per period
R-Squared error of fit:	0.347	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00189	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00423	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000795	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000413	mg/L per period
R-Squared error of fit:	0.0748	
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:	0.0	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:	0.436	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000281	mg/L per period
R-Squared error of fit:	0.634	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000231	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000411	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:	-1.58
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000949	mg/L per period
R-Squared error of fit:	0.0528	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000780	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00414	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00379	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.124
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000483	mg/L per period
R-Squared error of fit:	0.000597	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000302	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00181	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00251	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000660	mg/L per period
R-Squared error of fit:	0.255	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000559	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000170	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000383	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.748
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-12	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000822	mg/L per period
R-Squared error of fit:	0.104	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000115	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000329	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000158	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.0000588	mg/L per period
R-Squared error of fit:	0.248	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000127	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:	-1.32	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000494	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:	0.0	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:	0.873	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

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:	0.00	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

S Statistic:	0.37
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.119	mg/L per period
R-Squared error of fit:	0.174	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0799	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0822	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.373	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000412	mg/L per period
R-Squared error of fit:	0.203	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000862	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.986
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00409	mg/L per period
R-Squared error of fit:	0.354	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00104	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00779	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00651	mg/L per period
R-Squared error of fit:	0.249	

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:	-.0143	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:	-1.32
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000849	mg/L per period
R-Squared error of fit:	0.571	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000763	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000127	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:	-1.93
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000106	mg/L per period
R-Squared error of fit:	0.526	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000000903	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0000000822	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000201	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.75
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000114	mg/L per period
R-Squared error of fit:	0.0252	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000000397	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000393	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000243	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000349	mg/L per period
R-Squared error of fit:	0.00193	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000000475	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000718	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000823	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.249
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000242	mg/L per period
R-Squared error of fit:	0.0456	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00000356	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000859	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000295	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.748
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000830	mg/L per period
R-Squared error of fit:	0.0325	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000122	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000458	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000487	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000155	mg/L per period
R-Squared error of fit:	0.0316	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000769	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00108	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000393	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000166	mg/L per period
R-Squared error of fit:	0.0351	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000140	mg/L per period
R-Squared error of fit:	0.0351	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000149	mg/L per period
R-Squared error of fit:	0.250	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000199	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.658
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00343	mg/L per period
R-Squared error of fit:	0.0436	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000857	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00945	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00227	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000820	mg/L per period
R-Squared error of fit:	0.559	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000718	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00126	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.26
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000113	mg/L per period
R-Squared error of fit:	0.0476	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000270	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:	-0.658
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000201	mg/L per period
R-Squared error of fit:	0.000459	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000938	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000660	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000330	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.499
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000183	mg/L per period
R-Squared error of fit:	0.270	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000163	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000141	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000406	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000151	mg/L per period
R-Squared error of fit:	0.0351	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000183	mg/L per period
R-Squared error of fit:	0.0351	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000371	mg/L per period
R-Squared error of fit:	0.000176	

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:	-0.0000130	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000117	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.143
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000122	mg/L per period
R-Squared error of fit:	0.0130	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000268	mg/L per period
R-Squared error of fit:	0.0500	

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:	0.0	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:	-0.500
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

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:	0.00	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

S Statistic:	0.00
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0607	mg/L per period
R-Squared error of fit:	0.0234	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0194	mg/L per period
Lower Confidence Limit of Slope, M1:	-.269	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.461	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.124
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00444	mg/L per period
R-Squared error of fit:	0.0310	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000660	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0121	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00361	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.377
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0237	mg/L per period
R-Squared error of fit:	0.126	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0328	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0281	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.102	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000104	mg/L per period
R-Squared error of fit:	0.575	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000887	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000206	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.81
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000681	mg/L per period
R-Squared error of fit:	0.184	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000721	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000200	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000887	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000535	mg/L per period
R-Squared error of fit:	0.0361	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000375	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000126	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000281	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000206	mg/L per period
R-Squared error of fit:	0.0462	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000416	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000540	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000115	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.997
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000552	mg/L per period
R-Squared error of fit:	0.221	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000478	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000430	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000188	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00484	mg/L per period
R-Squared error of fit:	0.0786	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00444	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0269	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00574	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00403	mg/L per period
R-Squared error of fit:	0.0446	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00205	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0311	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00663	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.499
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000257	mg/L per period
R-Squared error of fit:	0.0350	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000137	mg/L per period
R-Squared error of fit:	0.0350	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000480	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000159	mg/L per period
R-Squared error of fit:	0.238	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000245	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000352	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.29
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00145	mg/L per period
R-Squared error of fit:	0.00924	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00281	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00788	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0103	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000802	mg/L per period
R-Squared error of fit:	0.0961	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00150	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00203	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00376	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000762	mg/L per period
R-Squared error of fit:	0.00679	

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:	-0.00000181	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000368	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.536
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000517	mg/L per period
R-Squared error of fit:	0.478	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000552	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0000130	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00101	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000345	mg/L per period
R-Squared error of fit:	0.251	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000294	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000741	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000826	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.27
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000131	mg/L per period
R-Squared error of fit:	0.0350	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000314	mg/L per period
R-Squared error of fit:	0.0350	

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:	0.0	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:	-0.436
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000412	mg/L per period
R-Squared error of fit:	0.00721	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000000247	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.329
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

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

S Statistic:	-1.00
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.149	mg/L per period
R-Squared error of fit:	0.248	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.150	mg/L per period
Lower Confidence Limit of Slope, M1:	-.107	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.450	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00300	mg/L per period
R-Squared error of fit:	0.153	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000591	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000226	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00894	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.25
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0120	mg/L per period
R-Squared error of fit:	0.0784	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0123	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0776	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0223	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.748
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00582	mg/L per period
R-Squared error of fit:	0.0177	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00505	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0431	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0552	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.124
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000233	mg/L per period
R-Squared error of fit:	0.620	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000246	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000409	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000629	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.49
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000216	mg/L per period
R-Squared error of fit:	0.543	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000124	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000355	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000000122	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000168	mg/L per period
R-Squared error of fit:	0.322	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000205	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000387	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000552	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000418	mg/L per period
R-Squared error of fit:	0.505	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000419	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00000505	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000811	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000869	mg/L per period
R-Squared error of fit:	0.689	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000850	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0000192	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000143	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.10
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000202	mg/L per period
R-Squared error of fit:	0.0603	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000238	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000444	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00137	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000284	mg/L per period
R-Squared error of fit:	0.117	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000296	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000363	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00137	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.11
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000456	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000176	mg/L per period
R-Squared error of fit:	0.317	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000157	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.32
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000886	mg/L per period
R-Squared error of fit:	0.00230	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000486	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0288	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0111	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00723	mg/L per period
R-Squared error of fit:	0.276	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00631	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0185	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00204	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000813	mg/L per period
R-Squared error of fit:	0.349	

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:	0.0	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:	-1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000320	mg/L per period
R-Squared error of fit:	0.0257	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000295	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00208	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00154	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.124
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000299	mg/L per period
R-Squared error of fit:	0.0182	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00000185	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00292	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00119	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000602	mg/L per period
R-Squared error of fit:	0.280	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000109	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.32
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000371	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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000519	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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

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:	0.00	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		
S Statistic:	-0.75	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.119	mg/L per period
R-Squared error of fit:	0.166	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0679	mg/L per period
Lower Confidence Limit of Slope, M1:	-.123	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.321	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00144	mg/L per period
R-Squared error of fit:	0.623	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00159	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000129	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00259	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00290	mg/L per period
R-Squared error of fit:	0.0337	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00511	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0267	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0132	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00749	mg/L per period
R-Squared error of fit:	0.229	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00866	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00715	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0199	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.11
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000488	mg/L per period
R-Squared error of fit:	0.128	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000469	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000104	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.55
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000305	mg/L per period
R-Squared error of fit:	0.00849	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000871	mg/L per period
R-Squared error of fit:	0.0567	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000000557	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000124	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000447	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.249
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000449	mg/L per period
R-Squared error of fit:	0.131	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000936	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000214	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000179	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000222	mg/L per period
R-Squared error of fit:	0.193	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000161	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000511	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000276	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.997
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-5	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000551	mg/L per period
R-Squared error of fit:	0.000421	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00000140	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000313	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000192	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.0	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000199	mg/L per period
R-Squared error of fit:	0.202	

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:	0.0	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:	-0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000303	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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-5	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000213	mg/L per period
R-Squared error of fit:	0.293	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000509	mg/L per period
R-Squared error of fit:	0.0158	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000829	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00142	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00376	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.764
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000550	mg/L per period
R-Squared error of fit:	0.0153	

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:	-0.00000150	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000265	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.143
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000109	mg/L per period
R-Squared error of fit:	0.0623	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000148	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000131	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000458	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.25
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000390	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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-5	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000241	mg/L per period
R-Squared error of fit:	0.0548	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-5	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000669	mg/L per period
R-Squared error of fit:	0.293	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

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

S Statistic:	-0.37
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.172	mg/L per period
R-Squared error of fit:	0.634	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.139	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0530	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.284	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.29
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000438	mg/L per period
R-Squared error of fit:	0.584	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000570	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000808	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000456	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.10
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00415	mg/L per period
R-Squared error of fit:	0.350	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00300	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.97
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0191	mg/L per period
R-Squared error of fit:	0.494	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0234	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00770	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0446	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.24
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000177	mg/L per period
R-Squared error of fit:	0.512	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000172	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000380	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.63
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000159	mg/L per period
R-Squared error of fit:	0.292	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000000898	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000337	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.29
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000248	mg/L per period
R-Squared error of fit:	0.218	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000300	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000000799	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000106	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.25
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-6	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000965	mg/L per period
R-Squared error of fit:	0.487	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000967	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000000634	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000212	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000278	mg/L per period
R-Squared error of fit:	0.0539	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000474	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000614	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00208	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000372	mg/L per period
R-Squared error of fit:	0.0795	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000529	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000767	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00234	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-6	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00164	mg/L per period
R-Squared error of fit:	0.264	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00112	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0000328	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00413	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.75
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000130	mg/L per period
R-Squared error of fit:	0.165	

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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000910	mg/L per period
R-Squared error of fit:	0.246	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000546	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000117	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000248	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.50
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000698	mg/L per period
R-Squared error of fit:	0.0130	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-6	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-6	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000489	mg/L per period
R-Squared error of fit:	0.118	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000000479	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.658
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000161	mg/L per period
R-Squared error of fit:	0.165	

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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000142	mg/L per period
R-Squared error of fit:	0.165	

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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

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		
S Statistic:	0.00	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.148	mg/L per period
R-Squared error of fit:	0.561	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.143	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0305	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.269	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
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R-Squared error of fit:	0.0	
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0	
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Z test:	1.64	
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At the 95.0 % Confidence Level (two-tailed test):	None	
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Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000843	mg/L per period
R-Squared error of fit:	0.0463	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00128	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00193	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00463	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0202	mg/L per period
R-Squared error of fit:	0.170	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00706	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0569	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0497	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00516	mg/L per period
R-Squared error of fit:	0.0502	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00154	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0209	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0248	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.499
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000394	mg/L per period
R-Squared error of fit:	0.224	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000392	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000281	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000122	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.760
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000315	mg/L per period
R-Squared error of fit:	0.599	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000324	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00000821	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000620	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000464	mg/L per period
R-Squared error of fit:	0.666	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000473	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0000184	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000873	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000231	mg/L per period
R-Squared error of fit:	0.0505	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000377	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000602	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000184	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000370	mg/L per period
R-Squared error of fit:	0.119	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000455	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000259	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000170	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000110	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000237	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000310	mg/L per period
R-Squared error of fit:	0.0877	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000325	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000623	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00158	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.619	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000535	mg/L per period
R-Squared error of fit:	0.324	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000750	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000311	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000108	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000769	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000530	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000432	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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000556	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:	0.0	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:	0.873	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
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R-Squared error of fit:	0.0	
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0	
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Z test:	1.64	
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At the 95.0 % Confidence Level (two-tailed test):	None	
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

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:	0.00	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		
S Statistic:	0.87	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.140	mg/L per period
R-Squared error of fit:	0.353	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.145	mg/L per period
Lower Confidence Limit of Slope, M1:	-.383	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0664	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000945	mg/L per period
R-Squared error of fit:	0.183	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000890	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00373	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00115	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00672	mg/L per period
R-Squared error of fit:	0.881	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00677	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00898	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00433	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.64
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0803	mg/L per period
R-Squared error of fit:	0.220	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0619	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.200	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0771	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000272	mg/L per period
R-Squared error of fit:	0.517	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000276	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000597	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.88
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000493	mg/L per period
R-Squared error of fit:	0.143	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000000175	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000145	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000000471	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.664
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000500	mg/L per period
R-Squared error of fit:	0.192	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000191	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000112	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000998	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000152	mg/L per period
R-Squared error of fit:	0.179	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000119	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000441	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000178	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000114	mg/L per period
R-Squared error of fit:	0.0264	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000116	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000360	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000688	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00325	mg/L per period
R-Squared error of fit:	0.582	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00341	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00565	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000216	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00304	mg/L per period
R-Squared error of fit:	0.578	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00364	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00502	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000392	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000211	mg/L per period
R-Squared error of fit:	0.700	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000210	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000343	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00000786	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.35
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000117	mg/L per period
R-Squared error of fit:	0.355	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00000919	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000248	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000000346	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.61
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000508	mg/L per period
R-Squared error of fit:	0.165	

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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000289	mg/L per period
R-Squared error of fit:	0.294	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000151	mg/L per period
R-Squared error of fit:	0.348	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000692	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000168	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.86
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Upward

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00839	mg/L per period
R-Squared error of fit:	0.193	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00236	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000374	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0124	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.25
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
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R-Squared error of fit:	0.0	
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0	
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Z test:	1.64	
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At the 95.0 % Confidence Level (two-tailed test):	None	
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Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000768	mg/L per period
R-Squared error of fit:	0.186	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000589	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.00
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000405	mg/L per period
R-Squared error of fit:	0.180	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000109	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000817	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000814	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.748
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000964	mg/L per period
R-Squared error of fit:	0.136	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000000423	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.329
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000837	mg/L per period
R-Squared error of fit:	0.165	

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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000162	mg/L per period
R-Squared error of fit:	0.165	

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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000310	mg/L per period
R-Squared error of fit:	0.165	

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:	0.0	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:	0.873
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000293	mg/L per period
R-Squared error of fit:	0.0852	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000512	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000156	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000231	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.764
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000304	mg/L per period
R-Squared error of fit:	0.157	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000327	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000903	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000323	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
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R-Squared error of fit:	0.0	
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0	
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Z test:	1.64	
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At the 95.0 % Confidence Level (two-tailed test):	None	
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

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		
S Statistic:	-0.62	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.187	mg/L per period
R-Squared error of fit:	0.102	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0776	mg/L per period
Lower Confidence Limit of Slope, M1:	-.659	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.701	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00124	mg/L per period
R-Squared error of fit:	0.389	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000901	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000206	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00265	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.36
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000429	mg/L per period
R-Squared error of fit:	0.00739	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00127	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00248	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.07
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0458	mg/L per period
R-Squared error of fit:	0.0192	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0191	mg/L per period
Lower Confidence Limit of Slope, M1:	-.304	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.394	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.000353	mg/L per period
R-Squared error of fit:	0.538	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000347	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000795	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000199	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.75
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000896	mg/L per period
R-Squared error of fit:	0.369	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000000967	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000192	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:	-1.53
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000386	mg/L per period
R-Squared error of fit:	0.333	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000000256	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000000971	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:	-1.88
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000382	mg/L per period
R-Squared error of fit:	0.0422	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000581	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000181	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000195	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000970	mg/L per period
R-Squared error of fit:	0.101	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000529	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000191	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000328	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.371
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000728	mg/L per period
R-Squared error of fit:	0.0000147	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000796	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00175	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00102	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000363	mg/L per period
R-Squared error of fit:	0.0192	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000349	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00162	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00185	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.619	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000477	mg/L per period
R-Squared error of fit:	0.0134	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000240	mg/L per period
R-Squared error of fit:	0.295	

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:	0.0	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:	1.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000306	mg/L per period
R-Squared error of fit:	0.0989	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000570	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000771	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00112	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.619
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000234	mg/L per period
R-Squared error of fit:	0.0840	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000244	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000724	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000946	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.866
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000746	mg/L per period
R-Squared error of fit:	0.00387	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000109	mg/L per period
R-Squared error of fit:	0.00792	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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: 01/01/2023 to 11/14/2024			

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data): 0.0 mg/L per period

R-Squared error of fit: 0.0

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: 0.0 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: 0.0

Z test: 1.64

At the 95.0 % Confidence Level (two-tailed test): None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.0	

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:	0.0	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:	0.0
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	01/01/2023 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
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R-Squared error of fit:	0.0
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.64
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At the 95.0 % Confidence Level (two-tailed test):	None
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APPENDIX B4

SEN SLOPE AND MANN-KENDALL TEST RESULTS - LONG TERM

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.14	

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

S Statistic:	-1.53
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	00515
Location Class:		Parameter:	Total Dissolved Solids
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.026427	mg/L per period
R-Squared error of fit:	0.28842	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.027860	mg/L per period
Lower Confidence Limit of Slope, M1:	0.018002	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.043882	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	3.9205
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000089481	mg/L per period
R-Squared error of fit:	0.0092394	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000022152	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00037028	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00025230	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.14521
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000055052	mg/L per period
R-Squared error of fit:	0.60566	

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:	0.0	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:	2.0817
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.013010	mg/L per period
R-Squared error of fit:	0.36243	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.012346	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0086079	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.017374	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	4.5498
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0017601	mg/L per period
R-Squared error of fit:	0.35998	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0013029	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0020756	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00049925	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.9368
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000047151	mg/L per period
R-Squared error of fit:	0.40377	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000056142	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000047760	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000063986	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	4.5032
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011441	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000010154	mg/L per period
R-Squared error of fit:	0.0012969	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000033829	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000066187	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:	-1.9876
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000016257	mg/L per period
R-Squared error of fit:	0.0040502	

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:	-.00000064405	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000064992	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.060518
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000014036	mg/L per period
R-Squared error of fit:	0.010219	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000014471	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000037298	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000069885	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.1558
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000057207	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000047540	mg/L per period
R-Squared error of fit:	0.0020166	

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:	0.0	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:	0.20102
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000015074	mg/L per period
R-Squared error of fit:	0.69683	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000015841	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000019065	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000013361	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-6.1703
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000019038	mg/L per period
R-Squared error of fit:	0.52816	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000017631	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000022720	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000012407	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.1811
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000022883	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000057207	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000069816	mg/L per period
R-Squared error of fit:	0.028737	

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:	0.0	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:	0.85122
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000057207	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000026888	mg/L per period
R-Squared error of fit:	0.00074112	

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:	0.0	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:	-.16450
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000060931	mg/L per period
R-Squared error of fit:	0.56610	

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:	0.0	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:	4.1347
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000024893	mg/L per period
R-Squared error of fit:	0.048324	

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:	0.0	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:	1.0945
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00038957	mg/L per period
R-Squared error of fit:	0.0063228	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00056712	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0011146	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00019250	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.2609
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000013147	mg/L per period
R-Squared error of fit:	0.0071051	

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:	0.0	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:	3.2513
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011441	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000032044	mg/L per period
R-Squared error of fit:	0.0041598	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000057143	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000013772	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:	-1.5035
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000054188	mg/L per period
R-Squared error of fit:	0.000098077	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000042345	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000092114	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00000016515	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.6489
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000017012	mg/L per period
R-Squared error of fit:	0.17090	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000000097205	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000089245	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	3.7210
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023960	mg/L per period
R-Squared error of fit:	0.84558	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000021458	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.3165
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011837	mg/L per period
R-Squared error of fit:	0.32899	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000015230	mg/L per period
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R-Squared error of fit:	0.0000012343	
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.0752
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000091388	mg/L per period
R-Squared error of fit:	0.0032401	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000010952	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000034557	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:	-1.4202
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000082244	mg/L per period
R-Squared error of fit:	0.84655	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000058351	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.3165
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023674	mg/L per period
R-Squared error of fit:	0.32899	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000020517	mg/L per period
R-Squared error of fit:	0.0019719	

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:	0.0	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:	0.33340
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000011739	mg/L per period
R-Squared error of fit:	0.42949	

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:	0.0	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:	3.9355
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-1	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000014698	mg/L per period
R-Squared error of fit:	0.0072716	

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:	0.0	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:	-0.83615
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011441	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000042781	mg/L per period
R-Squared error of fit:	0.77850	

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:	0.0	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:	4.1336
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000022883	mg/L per period
R-Squared error of fit:	0.78058	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.06	
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		
S Statistic:	-1.48	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.010130	mg/L per period
R-Squared error of fit:	0.027395	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0080754	mg/L per period
Lower Confidence Limit of Slope, M1:	-.012418	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.040602	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.81719
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00084169	mg/L per period
R-Squared error of fit:	0.62678	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00075126	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0010482	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00045575	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.6340
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000075859	mg/L per period
R-Squared error of fit:	0.0011256	

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:	-0.00030047	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:	-0.93141
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0088201	mg/L per period
R-Squared error of fit:	0.058661	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0073260	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0052438	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.023021	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.94848	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000035637	mg/L per period
R-Squared error of fit:	0.21054	

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:	0.0	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:	2.2613
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000000052108	mg/L per period
R-Squared error of fit:	0.00010318	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000000067069	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000017817	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	1.0061	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000020903	mg/L per period
R-Squared error of fit:	0.00048236	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00000021368	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000055458	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:	-1.3739	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000021861	mg/L per period
R-Squared error of fit:	0.0044497	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00000032196	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000013331	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000010926	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.44155	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000073862	mg/L per period
R-Squared error of fit:	0.00047548	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00000084236	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000026871	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000080625	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-0.66157	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000026324	mg/L per period
R-Squared error of fit:	0.000080026	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00035543	mg/L per period
R-Squared error of fit:	0.20169	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00034178	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000017069	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00068818	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.6752
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00040001	mg/L per period
R-Squared error of fit:	0.20792	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00038554	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000029973	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00074920	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	1.4771	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000024608	mg/L per period
R-Squared error of fit:	0.0000046891	

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:	0.0	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:	0.15026
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000075059	mg/L per period
R-Squared error of fit:	0.00061246	

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:	0.0	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:	-1.4189
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000044425	mg/L per period
R-Squared error of fit:	0.026056	

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:	0.0	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:	0.96741
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00045207	mg/L per period
R-Squared error of fit:	0.0013685	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00058192	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00084814	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00023692	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.5568
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00041491	mg/L per period
R-Squared error of fit:	0.082641	

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:	0.0	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:	-1.3333
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-10	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000054128	mg/L per period
R-Squared error of fit:	0.0017887	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000060000	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000010546	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00000014905	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.4693
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000037913	mg/L per period
R-Squared error of fit:	0.0016285	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000036563	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000062335	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000088549	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.3364
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000034398	mg/L per period
R-Squared error of fit:	0.086545	

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:	0.0	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:	-1.2495
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000016204	mg/L per period
R-Squared error of fit:	0.0013639	

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:	-.00000051697	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:	-2.0351
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000014340	mg/L per period
R-Squared error of fit:	0.000080026	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-10	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000014870	mg/L per period
R-Squared error of fit:	0.0010562	

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:	0.0	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:	0.96741
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000042193	mg/L per period
R-Squared error of fit:	0.00090664	

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:	0.0	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:	-1.13333
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000039899	mg/L per period
R-Squared error of fit:	0.0090210	

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:	0.0	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:	0.57668
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

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:	0.00	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

S Statistic:	-1.77
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0010306	mg/L per period
R-Squared error of fit:	0.000029993	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0098912	mg/L per period
Lower Confidence Limit of Slope, M1:	-.029057	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.050786	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.41889
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000059474	mg/L per period
R-Squared error of fit:	0.080239	

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:	0.0	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:	1.3002
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00021641	mg/L per period
R-Squared error of fit:	0.017868	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00019569	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00034772	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00092952	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.68345
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00039618	mg/L per period
R-Squared error of fit:	0.014759	

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:	-.00026704	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00095643	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.090995
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0054801	mg/L per period
R-Squared error of fit:	0.0032048	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0053050	mg/L per period
Lower Confidence Limit of Slope, M1:	-.019540	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.026711	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.30873
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000029295	mg/L per period
R-Squared error of fit:	0.13035	

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:	0.0	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:	0.87112
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000027284	mg/L per period
R-Squared error of fit:	0.071209	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00000038095	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000074555	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:	-2.9328
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000061741	mg/L per period
R-Squared error of fit:	0.0081947	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.000000057143	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000014565	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000020415	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-.066173	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000068503	mg/L per period
R-Squared error of fit:	0.084981	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000023437	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000069070	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.000000031052	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.6760
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000000063160	mg/L per period
R-Squared error of fit:	0.038399	
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:	0.0	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:	-0.93333	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00011545	mg/L per period
R-Squared error of fit:	0.0035461	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000026846	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00028372	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00061207	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.15433
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00010461	mg/L per period
R-Squared error of fit:	0.0025355	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000046458	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00032343	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00057527	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.088166	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000026684	mg/L per period
R-Squared error of fit:	0.046986	

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:	0.0	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:	-1.1609
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000054824	mg/L per period
R-Squared error of fit:	0.054518	

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:	0.0	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:	-1.5196
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000046147	mg/L per period
R-Squared error of fit:	0.10844	

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:	0.0	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:	1.6000
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000053728	mg/L per period
R-Squared error of fit:	0.033192	

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:	0.0	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:	-.72090
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0039300	mg/L per period
R-Squared error of fit:	0.061837	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00038512	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00093957	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00019507	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.3062
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000087148	mg/L per period
R-Squared error of fit:	0.062879	

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:	0.0	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:	-1.2000
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000040528	mg/L per period
R-Squared error of fit:	0.058335	

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:	0.0	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:	-2.0869
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00023082	mg/L per period
R-Squared error of fit:	0.051626	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000032801	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00010555	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000015237	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.2482
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000011227	mg/L per period
R-Squared error of fit:	0.026217	

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:	0.0	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:	-.32247
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.0000099213	mg/L per period
R-Squared error of fit:	0.056099	
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:	0.0	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:	-1.6746	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-11	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000044338	mg/L per period
R-Squared error of fit:	0.045519	

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:	0.0	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:	-1.2495
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-11	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000011220	mg/L per period
R-Squared error of fit:	0.047251	

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:	0.0	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:	-0.70943
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000011534	mg/L per period
R-Squared error of fit:	0.038399	

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:	0.0	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:	-0.93333
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000053382	mg/L per period
R-Squared error of fit:	0.0056674	

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:	0.0	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:	-0.26667
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000058868	mg/L per period
R-Squared error of fit:	0.0056674	

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:	0.0	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:	-0.26667
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.13	

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

S Statistic:	-1.80
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0044934	mg/L per period
R-Squared error of fit:	0.0011421	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.021458	mg/L per period
Lower Confidence Limit of Slope, M1:	-.026081	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.067819	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.79429
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000060379	mg/L per period
R-Squared error of fit:	0.13949	

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:	0.0	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:	-1.8008
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00037215	mg/L per period
R-Squared error of fit:	0.025853	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00029866	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00095396	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.6621
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0060230	mg/L per period
R-Squared error of fit:	0.10191	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0044730	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.012623	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0013491	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.1465
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0072331	mg/L per period
R-Squared error of fit:	0.094281	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0037851	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.012063	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0036734	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.79588
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00030453	mg/L per period
R-Squared error of fit:	0.22636	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00035068	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00053593	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00014630	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.7314
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000051576	mg/L per period
R-Squared error of fit:	0.020953	

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:	0.0	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:	0.90038
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000034882	mg/L per period
R-Squared error of fit:	0.0000079933	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.00000026333	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000093303	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:	-1.1616	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000017550	mg/L per period
R-Squared error of fit:	0.13390	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000079171	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000024582	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000013630	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.4262
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-12	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000010163	mg/L per period
R-Squared error of fit:	0.010489	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000019647	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000016994	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000014017	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.18689
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000034745	mg/L per period
R-Squared error of fit:	0.000059963	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000024457	mg/L per period
R-Squared error of fit:	0.097524	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000025048	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000056417	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000083871	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.1444
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000023166	mg/L per period
R-Squared error of fit:	0.074363	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000020953	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000053709	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000070626	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.2148	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000000000	mg/L per period
R-Squared error of fit:	0.000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000022380	mg/L per period
R-Squared error of fit:	0.00032908	

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:	0.0	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:	0.20008
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000034917	mg/L per period
R-Squared error of fit:	0.030032	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.0000029588	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000045349	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	2.3854	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	Upward	

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000055270	mg/L per period
R-Squared error of fit:	0.10836	

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:	0.0	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:	1.5948
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-12	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000022538	mg/L per period
R-Squared error of fit:	0.013070	

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:	0.0	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:	1.6939
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000010342	mg/L per period
R-Squared error of fit:	0.0000000039161	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00029948	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00096275	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000088667	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.1681
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000084305	mg/L per period
R-Squared error of fit:	0.028354	

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:	0.0	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:	0.90038
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000013450	mg/L per period
R-Squared error of fit:	0.000059963	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.000000097014	mg/L per period
R-Squared error of fit:	0.000059355	
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:	-.00000026865	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:	-.98192	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0010211	mg/L per period
R-Squared error of fit:	0.099953	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00098272	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00048587	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0015218	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.8727
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000011221	mg/L per period
R-Squared error of fit:	0.00050657	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000048726	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00014068	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00024825	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.49072	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000031383	mg/L per period
R-Squared error of fit:	0.000059963	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000044459	mg/L per period
R-Squared error of fit:	0.014029	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000034332	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000087975	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000015872	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.61096
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-12	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000018309	mg/L per period
R-Squared error of fit:	0.0043971	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0000017989	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000073340	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000040702	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.2378
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000051290	mg/L per period
R-Squared error of fit:	0.00043525	

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:	0.0	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:	0.20008
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-12	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.0000013736	mg/L per period
R-Squared error of fit:	0.00069236	
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:	0.0	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:	0.25094	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000076098	mg/L per period
R-Squared error of fit:	0.011074	

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:	0.0	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:	1.0004
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
R-Squared error of fit:	0.000000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0	mg/L per period
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R-Squared error of fit:	0.000000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.06	
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		
S Statistic:	-1.51	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.036257	mg/L per period
R-Squared error of fit:	0.25769	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.046220	mg/L per period
Lower Confidence Limit of Slope, M1:	-.075591	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.025395	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.8075
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000011715	mg/L per period
R-Squared error of fit:	0.054087	

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:	0.0	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:	0.67955
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000053282	mg/L per period
R-Squared error of fit:	0.57363	

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:	0.0	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:	1.7182
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0093355	mg/L per period
R-Squared error of fit:	0.87521	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0096940	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.010909	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0084455	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-6.3827
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0025936	mg/L per period
R-Squared error of fit:	0.073269	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0054533	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.010260	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0021876	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.5890
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000030286	mg/L per period
R-Squared error of fit:	0.0044172	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000036172	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000012307	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000045264	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.82943
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000053481	mg/L per period
R-Squared error of fit:	0.41031	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000041905	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000059500	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:	-1.9666
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000040729	mg/L per period
R-Squared error of fit:	0.053604	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000041265	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000084255	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:	-1.4490
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.00000028676	mg/L per period
R-Squared error of fit:	0.0011394	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000029007	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000075926	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000010840	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.6555
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000017492	mg/L per period
R-Squared error of fit:	0.29309	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000015739	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000021746	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000010802	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.8364
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000055989	mg/L per period
R-Squared error of fit:	0.76466	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000019162	mg/L per period
R-Squared error of fit:	0.062115	

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:	0.0	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:	-1.2709
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00050058	mg/L per period
R-Squared error of fit:	0.73854	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00055324	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00065605	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00046354	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-6.0168
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00066983	mg/L per period
R-Squared error of fit:	0.65627	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00067920	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00081676	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00053355	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-5.1025
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000022396	mg/L per period
R-Squared error of fit:	0.76466	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01030
Location Class:		Parameter:	Chromium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000055989	mg/L per period
R-Squared error of fit:	0.76466	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000026471	mg/L per period
R-Squared error of fit:	0.043166	

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:	0.0	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:	1.0398
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000013030	mg/L per period
R-Squared error of fit:	0.0016245	

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:	0.0	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:	-1.5579
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000022364	mg/L per period
R-Squared error of fit:	0.043166	

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:	0.0	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:	1.0398
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000055989	mg/L per period
R-Squared error of fit:	0.76466	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000015135	mg/L per period
R-Squared error of fit:	0.11894	

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:	0.0	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:	1.9937
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0013574	mg/L per period
R-Squared error of fit:	0.089775	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00078000	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0014336	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.000087012	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.8736
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00052935	mg/L per period
R-Squared error of fit:	0.10063	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00029773	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00071244	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:	-1.8122
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000091408	mg/L per period
R-Squared error of fit:	0.29742	

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:	0.0	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:	3.0798
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000029602	mg/L per period
R-Squared error of fit:	0.0010924	

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:	0.0	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:	-43567
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00019408	mg/L per period
R-Squared error of fit:	0.36172	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00016212	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00025671	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.000078976	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.3563
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00016359	mg/L per period
R-Squared error of fit:	0.65104	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00016525	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00019854	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00013189	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-5.4539
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023749	mg/L per period
R-Squared error of fit:	0.83987	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000021228	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.1218
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012295	mg/L per period
R-Squared error of fit:	0.34941	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000012005	mg/L per period
R-Squared error of fit:	0.44920	

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:	0.0	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:	-2.7119
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000050943	mg/L per period
R-Squared error of fit:	0.072406	

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:	0.0	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:	-1.5482
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000081092	mg/L per period
R-Squared error of fit:	0.83926	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000053357	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.1218
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000024590	mg/L per period
R-Squared error of fit:	0.34941	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000029210	mg/L per period
R-Squared error of fit:	0.043166	

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:	0.0	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:	1.0398
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000093097	mg/L per period
R-Squared error of fit:	0.57753	

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:	0.0	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:	2.9577
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000017951	mg/L per period
R-Squared error of fit:	0.082543	

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:	0.0	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:	2.0964
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-2	Parameter Code:	01095
Location Class:		Parameter:	Antimony, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012600	mg/L per period
R-Squared error of fit:	0.67734	

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:	0.0	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:	4.2645
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000074195	mg/L per period
R-Squared error of fit:	0.0085404	

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:	0.0	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:	1.3114
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000041657	mg/L per period
R-Squared error of fit:	0.76581	

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:	0.0	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:	4.2526
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000022396	mg/L per period
R-Squared error of fit:	0.76466	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.47	

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

S Statistic:	-5.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0044390	mg/L per period
R-Squared error of fit:	0.0062912	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0036786	mg/L per period
Lower Confidence Limit of Slope, M1:	-.016006	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.020708	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.27470
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000011915	mg/L per period
R-Squared error of fit:	0.056512	

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:	0.0	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:	2.4565
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000053006	mg/L per period
R-Squared error of fit:	0.54747	

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:	0.0	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:	1.7661
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0072888	mg/L per period
R-Squared error of fit:	0.80675	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0063624	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0074924	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0050054	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-5.4809
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.057662	mg/L per period
R-Squared error of fit:	0.82277	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.053662	mg/L per period
Lower Confidence Limit of Slope, M1:	-.062143	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.045103	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.8674
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	00950
Location Class:		Parameter:	Fluoride, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00037127	mg/L per period
R-Squared error of fit:	0.50835	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00022704	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00028851	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00014090	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.1725
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000010495	mg/L per period
R-Squared error of fit:	0.0010761	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00000059407	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000011320	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000087567	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.078507
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000097230	mg/L per period
R-Squared error of fit:	0.019125	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.000024075	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000041705	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000020689	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.8030
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000014415	mg/L per period
R-Squared error of fit:	0.45702	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000017488	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000012755	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000022642	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.1409
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000024948	mg/L per period
R-Squared error of fit:	0.45464	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000024125	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000016996	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000034955	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	4.2647	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	Upward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000000536	mg/L per period
R-Squared error of fit:	0.000000015206	

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:	0.0	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:	2.3465
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000025483	mg/L per period
R-Squared error of fit:	0.062243	

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:	0.0	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:	-1.2709
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0042577	mg/L per period
R-Squared error of fit:	0.67822	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0037930	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0045546	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0029185	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.7881
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0032787	mg/L per period
R-Squared error of fit:	0.31011	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0034127	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0051734	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0016994	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.0696
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000057724	mg/L per period
R-Squared error of fit:	0.074528	

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:	0.0	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:	0.10248
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000055977	mg/L per period
R-Squared error of fit:	0.76476	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000066116	mg/L per period
R-Squared error of fit:	0.00069093	

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:	0.0	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:	-.034490
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000055977	mg/L per period
R-Squared error of fit:	0.76476	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000021876	mg/L per period
R-Squared error of fit:	0.043047	

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:	0.0	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:	1.0398
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000069223	mg/L per period
R-Squared error of fit:	0.56298	

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:	0.0	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:	4.3748
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000017064	mg/L per period
R-Squared error of fit:	0.11294	

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:	0.0	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:	1.4887
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0016248	mg/L per period
R-Squared error of fit:	0.20034	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0018627	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0013290	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0023590	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	3.9250
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00066281	mg/L per period
R-Squared error of fit:	0.40462	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00087527	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00072117	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0011396	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.2185
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000079507	mg/L per period
R-Squared error of fit:	0.32112	

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:	0.0	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:	2.9577
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000021140	mg/L per period
R-Squared error of fit:	0.013266	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000029478	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.6844
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00030967	mg/L per period
R-Squared error of fit:	0.83806	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00030549	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00027114	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00036005	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.9589
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01056
Location Class:		Parameter:	Manganese, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00018174	mg/L per period
R-Squared error of fit:	0.68402	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00021288	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00018529	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00025985	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	6.8567
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000020796	mg/L per period
R-Squared error of fit:	0.71044	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000019553	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	4.7781
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000013053	mg/L per period
R-Squared error of fit:	0.15636	

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:	0.0	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:	2.7739
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000083297	mg/L per period
R-Squared error of fit:	0.25441	

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:	0.0	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:	-1.4810
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000015184	mg/L per period
R-Squared error of fit:	0.0055791	

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:	0.0	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:	-1.17245
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000081078	mg/L per period
R-Squared error of fit:	0.83945	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000053357	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.1218
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000024611	mg/L per period
R-Squared error of fit:	0.35005	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000022956	mg/L per period
R-Squared error of fit:	0.000060005	

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:	0.0	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:	-0.24921
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000076558	mg/L per period
R-Squared error of fit:	0.27473	

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:	0.0	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:	2.9577
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-3	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000010512	mg/L per period
R-Squared error of fit:	0.012887	

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:	0.0	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:	1.0272
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011195	mg/L per period
R-Squared error of fit:	0.76476	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000042299	mg/L per period
R-Squared error of fit:	0.76567	

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:	0.0	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:	4.2526
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000022391	mg/L per period
R-Squared error of fit:	0.76476	

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:	0.0	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:	4.0523
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.03	

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

S Statistic:	-3.31
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0057986	mg/L per period
R-Squared error of fit:	0.013892	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.010809	mg/L per period
Lower Confidence Limit of Slope, M1:	-.027608	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0081753	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.91300
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00019366	mg/L per period
R-Squared error of fit:	0.094019	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000010663	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.0744
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000051109	mg/L per period
R-Squared error of fit:	0.52975	

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:	0.0	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:	1.3066
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0055401	mg/L per period
R-Squared error of fit:	0.49229	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0054082	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0073271	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0032596	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.8056
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00037033	mg/L per period
R-Squared error of fit:	0.0020728	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00080380	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0022891	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0035294	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.42267
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000044578	mg/L per period
R-Squared error of fit:	0.39755	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000034654	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000048958	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000020185	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.3784
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000016599	mg/L per period
R-Squared error of fit:	0.44308	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000066915	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000082591	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000049659	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.6043
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000019655	mg/L per period
R-Squared error of fit:	0.024027	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000027576	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000053075	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00000025105	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.6952
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000078972	mg/L per period
R-Squared error of fit:	0.43804	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000080214	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000010853	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000054403	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.0454
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000039660	mg/L per period
R-Squared error of fit:	0.0052786	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000072289	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000013740	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.000000087369	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.6414
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01010
Location Class:		Parameter:	Beryllium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000068795	mg/L per period
R-Squared error of fit:	0.088745	

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:	0.0	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:	1.1833
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.00084859	mg/L per period
R-Squared error of fit:	0.76303	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00048855	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00066241	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00038817	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-5.7900
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00040118	mg/L per period
R-Squared error of fit:	0.57989	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00037069	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00047399	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00025648	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.2832
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000021831	mg/L per period
R-Squared error of fit:	0.73730	

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:	0.0	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:	3.7991
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000028573	mg/L per period
R-Squared error of fit:	0.12943	

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:	0.0	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:	2.4555
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000081201	mg/L per period
R-Squared error of fit:	0.11320	

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:	0.0	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:	-1.1849
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000054578	mg/L per period
R-Squared error of fit:	0.73730	

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:	0.0	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:	3.7991
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000068038	mg/L per period
R-Squared error of fit:	0.54880	

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:	0.0	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:	4.1437
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000014902	mg/L per period
R-Squared error of fit:	0.060226	

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:	0.0	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:	0.94459
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0012422	mg/L per period
R-Squared error of fit:	0.0074946	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0021214	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0043184	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00020786	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.4991
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0012017	mg/L per period
R-Squared error of fit:	0.17081	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0015242	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0025096	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00051691	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.3707
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011771	mg/L per period
R-Squared error of fit:	0.53436	

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:	0.0	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:	3.6656
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000039507	mg/L per period
R-Squared error of fit:	0.040982	

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:	0.0	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:	-0.95097
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00024936	mg/L per period
R-Squared error of fit:	0.26936	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00023901	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00037008	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00010946	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.0349
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00053021	mg/L per period
R-Squared error of fit:	0.73425	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00042659	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00050297	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00035775	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-5.6134
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023566	mg/L per period
R-Squared error of fit:	0.82257	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000020696	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	4.9304
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012305	mg/L per period
R-Squared error of fit:	0.35037	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000013794	mg/L per period
R-Squared error of fit:	0.36972	

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:	0.0	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:	-2.4886
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000010339	mg/L per period
R-Squared error of fit:	0.18209	

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:	0.0	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:	-2.2418
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000079880	mg/L per period
R-Squared error of fit:	0.82066	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000044125	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	4.9304
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000024611	mg/L per period
R-Squared error of fit:	0.35037	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01085
Location Class:		Parameter:	Vanadium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000010627	mg/L per period
R-Squared error of fit:	0.12638	

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:	0.0	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:	-1.6900
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000084599	mg/L per period
R-Squared error of fit:	0.47971	

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:	0.0	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:	2.5825
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-4	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000015114	mg/L per period
R-Squared error of fit:	0.021359	

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:	0.0	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:	-.12816
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000013605	mg/L per period
R-Squared error of fit:	0.43919	

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:	0.0	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:	3.9689
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000053453	mg/L per period
R-Squared error of fit:	0.083792	

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:	0.0	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:	1.3291
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000011991	mg/L per period
R-Squared error of fit:	0.18066	

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:	0.0	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:	1.5606
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000021831	mg/L per period
R-Squared error of fit:	0.73730	

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:	0.0	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:	3.7991
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:	Groundwater	Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

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:	0.00	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		
S Statistic:	-1.35	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.013683	mg/L per period
R-Squared error of fit:	0.13955	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0096889	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0026690	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.019870	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.3554
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00014049	mg/L per period
R-Squared error of fit:	0.099689	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00023256	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00013637	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00039071	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	3.7511
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000055052	mg/L per period
R-Squared error of fit:	0.60567	

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:	0.0	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:	2.0817
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0011897	mg/L per period
R-Squared error of fit:	0.15602	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00092922	mg/L per period
Lower Confidence Limit of Slope, M1:	0.00024757	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0016434	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.3691
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0023649	mg/L per period
R-Squared error of fit:	0.045466	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0011614	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0020443	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0027839	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.86028
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000024506	mg/L per period
R-Squared error of fit:	0.18833	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000052576	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000045293	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000069991	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.6895
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01000
Location Class:		Parameter:	Arsenic, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000058547	mg/L per period
R-Squared error of fit:	0.16107	

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:	0.0	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:	2.2482
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000027860	mg/L per period
R-Squared error of fit:	0.078642	

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:	0.0	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:	-1.7507
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023193	mg/L per period
R-Squared error of fit:	0.036374	

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:	-.00000032210	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000037658	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.096874
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000011632	mg/L per period
R-Squared error of fit:	0.046979	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00000057143	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000016420	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000066924	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.74849
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000057206	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000040910	mg/L per period
R-Squared error of fit:	0.55495	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000012257	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000021482	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000071340	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.4118
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000065163	mg/L per period
R-Squared error of fit:	0.12766	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000047452	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000010247	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00000053075	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.7854
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000022883	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000057206	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000077985	mg/L per period
R-Squared error of fit:	0.0062163	

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:	0.0	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:	-0.24103
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000057206	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000018694	mg/L per period
R-Squared error of fit:	0.11181	

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:	0.0	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:	-1.8419
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000057206	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000092739	mg/L per period
R-Squared error of fit:	0.023833	

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:	0.0	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:	-60011
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00039859	mg/L per period
R-Squared error of fit:	0.077802	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00014488	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00030599	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:	-1.7378
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000044327	mg/L per period
R-Squared error of fit:	0.79004	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000040309	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.1397
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Upward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012008	mg/L per period
R-Squared error of fit:	0.34365	

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:	0.0	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:	3.7344
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000063518	mg/L per period
R-Squared error of fit:	0.10199	

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:	0.0	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:	-0.86603
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00089030	mg/L per period
R-Squared error of fit:	0.11222	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00019048	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00047598	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:	-1.6155
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000053862	mg/L per period
R-Squared error of fit:	0.018387	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000052912	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	3.7705
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01057
Location Class:		Parameter:	Thallium, dissolved
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023960	mg/L per period
R-Squared error of fit:	0.84559	

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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000021457	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	5.3165
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011838	mg/L per period
R-Squared error of fit:	0.32902	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000011773	mg/L per period
R-Squared error of fit:	0.010380	

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:	0.0	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:	1.0186
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000026249	mg/L per period
R-Squared error of fit:	0.12700	

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:	0.0	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:	-1.4468
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000082244	mg/L per period
R-Squared error of fit:	0.84656	
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:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000058351	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	5.3165	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023675	mg/L per period
R-Squared error of fit:	0.32902	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000011441	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-5	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:	Groundwater	Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000048635	mg/L per period
R-Squared error of fit:	0.020899	

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:	0.0	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:	-0.66679
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011441	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000000041539	mg/L per period
R-Squared error of fit:	0.00074415	

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:	0.0	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:	0.055902
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000041954	mg/L per period
R-Squared error of fit:	0.78119	

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:	0.0	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:	4.4781
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000022883	mg/L per period
R-Squared error of fit:	0.78059	

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:	0.0	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:	4.2954
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

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:	0.00	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		
S Statistic:	-1.63	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.022228	mg/L per period
R-Squared error of fit:	0.14463	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.023904	mg/L per period
Lower Confidence Limit of Slope, M1:	-.039844	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0052930	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.0768
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000000000	mg/L per period
R-Squared error of fit:	0.000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00082016	mg/L per period
R-Squared error of fit:	0.033419	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00036044	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00098940	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00032791	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.98608
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000023686	mg/L per period
R-Squared error of fit:	0.32910	

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:	0.0	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:	-3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0025902	mg/L per period
R-Squared error of fit:	0.12301	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0018259	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0030916	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00043393	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.2023
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0029641	mg/L per period
R-Squared error of fit:	0.079444	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0028011	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0059369	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:	-1.4005
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000026591	mg/L per period
R-Squared error of fit:	0.0027696	

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:	-.000015120	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000010542	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.22282
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-6	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000017233	mg/L per period
R-Squared error of fit:	0.054727	

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:	-0.00000031361	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:	-1.3793
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000015987	mg/L per period
R-Squared error of fit:	0.21356	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000013867	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000024490	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00000046297	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.3654
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000018017	mg/L per period
R-Squared error of fit:	0.14418	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000015491	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000030114	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00000028130	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.8869
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000018418	mg/L per period
R-Squared error of fit:	0.058475	

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:	0.0	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:	-1.2857
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00015302	mg/L per period
R-Squared error of fit:	0.076280	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000058434	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00021924	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000074254	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.74784
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.00014585	mg/L per period
R-Squared error of fit:	0.063294	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-.000044289	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00021592	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000096495	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-.57788	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000027364	mg/L per period
R-Squared error of fit:	0.058475	

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:	0.0	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:	-1.2857
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000032099	mg/L per period
R-Squared error of fit:	0.058475	

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:	0.0	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:	-1.2857
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00026546	mg/L per period
R-Squared error of fit:	0.075695	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00015045	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00041619	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000031617	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.2409
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000023686	mg/L per period
R-Squared error of fit:	0.32910	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000032831	mg/L per period
R-Squared error of fit:	0.11075	

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:	0.0	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:	-2.0964
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000018834	mg/L per period
R-Squared error of fit:	0.095546	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0000076692	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000028927	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000030157	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.1232
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000092692	mg/L per period
R-Squared error of fit:	0.045958	

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:	0.0	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:	3.1805
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011843	mg/L per period
R-Squared error of fit:	0.32910	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011843	mg/L per period
R-Squared error of fit:	0.32910	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000090287	mg/L per period
R-Squared error of fit:	0.20850	
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:	0.0	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:	-2.7603	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023686	mg/L per period
R-Squared error of fit:	0.32910	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-6	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023686	mg/L per period
R-Squared error of fit:	0.32910	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-6	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000043676	mg/L per period
R-Squared error of fit:	0.058475	

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:	0.0	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:	-1.2857
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000080361	mg/L per period
R-Squared error of fit:	0.14088	

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:	0.0	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:	2.0086
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000016216	mg/L per period
R-Squared error of fit:	0.082149	

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:	0.0	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:	1.5093
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000014221	mg/L per period
R-Squared error of fit:	0.082149	

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:	0.0	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:	1.5093
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

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:	0.00	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

S Statistic:	-2.16
Z test:	1.64
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0043932	mg/L per period
R-Squared error of fit:	0.0071721	

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:	-.018409	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.012855	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.017882
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00011484	mg/L per period
R-Squared error of fit:	0.0031647	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00030110	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00039932	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00080708	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.78501
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	00720
Location Class:		Parameter:	Cyanide, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000027354	mg/L per period
R-Squared error of fit:	0.32762	

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:	0.0	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:	-3.0434
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0048407	mg/L per period
R-Squared error of fit:	0.13032	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0045746	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0094407	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:	-1.7690
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0056805	mg/L per period
R-Squared error of fit:	0.41244	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0050590	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0076820	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0030799	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.0614
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00013506	mg/L per period
R-Squared error of fit:	0.061621	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000092678	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000023603	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000042812	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.95355
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000034043	mg/L per period
R-Squared error of fit:	0.096063	

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:	0.0	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:	-1.6175
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.0000015511	mg/L per period
R-Squared error of fit:	0.10369	
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:	0.0	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:	-2.5407	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000039777	mg/L per period
R-Squared error of fit:	0.0021183	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000047676	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0000037740	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000027997	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.28546
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000081943	mg/L per period
R-Squared error of fit:	0.077802	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000031618	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000077875	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000012732	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.1775
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000041562	mg/L per period
R-Squared error of fit:	0.084727	

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:	0.0	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:	-1.5019
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00030082	mg/L per period
R-Squared error of fit:	0.17396	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00014992	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00035507	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000033954	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.9995
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000028589	mg/L per period
R-Squared error of fit:	0.15541	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000015892	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000035689	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000022009	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-1.4991	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0000013811	mg/L per period
R-Squared error of fit:	0.084727	

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:	0.0	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:	-1.5019
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.0000011637	mg/L per period
R-Squared error of fit:	0.084727	
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:	0.0	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:	-1.5019	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000088375	mg/L per period
R-Squared error of fit:	0.091498	

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:	0.0	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:	1.6175
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000038524	mg/L per period
R-Squared error of fit:	0.0022899	

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:	0.0	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:	0.083069
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0023851	mg/L per period
R-Squared error of fit:	0.098513	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000093369	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00039801	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000095867	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.82069
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000046362	mg/L per period
R-Squared error of fit:	0.031826	

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:	0.0	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:	-.48408
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000017985	mg/L per period
R-Squared error of fit:	0.091700	

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:	0.0	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:	-1.7141
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00018060	mg/L per period
R-Squared error of fit:	0.16836	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000050383	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000083464	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000017556	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.6762
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000049172	mg/L per period
R-Squared error of fit:	0.099616	

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:	-.0000065907	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:	-2.6128
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012307	mg/L per period
R-Squared error of fit:	0.35007	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012307	mg/L per period
R-Squared error of fit:	0.35007	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.0000024957	mg/L per period
R-Squared error of fit:	0.082216	
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:	0.0	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:	-.86224	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000024613	mg/L per period
R-Squared error of fit:	0.35007	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-7	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000024613	mg/L per period
R-Squared error of fit:	0.35007	
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:	0.0	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:	3.1420	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000036319	mg/L per period
R-Squared error of fit:	0.084727	

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:	0.0	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:	-1.5019
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000061796	mg/L per period
R-Squared error of fit:	0.091498	

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:	0.0	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:	1.6175
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-7	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000053487	mg/L per period
R-Squared error of fit:	0.072696	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000043753	mg/L per period
R-Squared error of fit:	0.080960	

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:	0.0	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:	1.5019
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000000056254	mg/L per period
R-Squared error of fit:	0.080960	
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:	0.0	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:	1.5019	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00	STD per period
R-Squared error of fit:	0.03	
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		
S Statistic:	-0.15	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.088804	mg/L per period
R-Squared error of fit:	0.51021	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.099071	mg/L per period
Lower Confidence Limit of Slope, M1:	-.12654	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.072519	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.4221
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000000000	mg/L per period
R-Squared error of fit:	0.000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00039942	mg/L per period
R-Squared error of fit:	0.19331	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.00038613	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00065839	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.00012811	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.1929
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000023670	mg/L per period
R-Squared error of fit:	0.32895	

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:	0.0	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:	-3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000075440	mg/L per period
R-Squared error of fit:	0.00035009	

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:	-.0016298	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0015061	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.13686
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.071471	mg/L per period
R-Squared error of fit:	0.54092	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.079780	mg/L per period
Lower Confidence Limit of Slope, M1:	-.10166	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.059778	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.5904
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000057651	mg/L per period
R-Squared error of fit:	0.0058570	

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:	-.000011541	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000085829	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-.052732
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000016205	mg/L per period
R-Squared error of fit:	0.26668	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00000013210	mg/L per period
Lower Confidence Limit of Slope, M1:	0.000000043127	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000020407	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	2.9126	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000055912	mg/L per period
R-Squared error of fit:	0.000077812	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.00000013569	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000037124	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	1.4039	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000059101	mg/L per period
R-Squared error of fit:	0.26755	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000063764	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000095788	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000026105	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.8222
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000064395	mg/L per period
R-Squared error of fit:	0.047339	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000073917	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000010993	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000015555	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.0056
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000076253	mg/L per period
R-Squared error of fit:	0.058452	

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:	0.0	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:	-1.2857
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000010100	mg/L per period
R-Squared error of fit:	0.070145	

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:	0.0	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:	-1.3658
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0011634	mg/L per period
R-Squared error of fit:	0.66148	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0011671	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0014871	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00085900	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-5.0487
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.0011388	mg/L per period
R-Squared error of fit:	0.59522	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0012066	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.0015410	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.00089255	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-4.5047
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000010059	mg/L per period
R-Squared error of fit:	0.019744	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000000083542	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000011565	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000013740	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.17006
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000013588	mg/L per period
R-Squared error of fit:	0.017155	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000066946	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00000097162	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000023052	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.64605
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000015884	mg/L per period
R-Squared error of fit:	0.0095519	

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:	0.0	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:	-.73381
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023175	mg/L per period
R-Squared error of fit:	0.092667	

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:	0.0	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:	1.6211
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000049069	mg/L per period
R-Squared error of fit:	0.00079494	

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:	0.0	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:	0.74345
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-8	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00020377	mg/L per period
R-Squared error of fit:	0.00048012	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000032154	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00010270	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000063608	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.57805
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000023670	mg/L per period
R-Squared error of fit:	0.32895	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000043629	mg/L per period
R-Squared error of fit:	0.0016981	

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:	0.0	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:	0.10284
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000039896	mg/L per period
R-Squared error of fit:	0.0045178	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.0000019064	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000013683	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.0000050047	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-4.0803	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000047341	mg/L per period
R-Squared error of fit:	0.32895	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011835	mg/L per period
R-Squared error of fit:	0.32895	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000011835	mg/L per period
R-Squared error of fit:	0.32895	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-.0000020069	mg/L per period
R-Squared error of fit:	0.0061275	
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:	0.0	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:	-.099126	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023670	mg/L per period
R-Squared error of fit:	0.32895	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000023670	mg/L per period
R-Squared error of fit:	0.32895	

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:	0.0	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:	3.1525
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000019058	mg/L per period
R-Squared error of fit:	0.00032423	

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:	0.0	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:	0.64275
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-8	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000019807	mg/L per period
R-Squared error of fit:	0.0041506	

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:	0.0	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:	-67511
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
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R-Squared error of fit:	0.00000000000000
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Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.0	mg/L per period
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Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
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Upper Confidence Limit of Slope, M2+1:	0.0	mg/L per period
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Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.0
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Z test:	1.6449
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At the 95.0 % Confidence Level (two-tailed test):	None
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**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000098815	mg/L per period
R-Squared error of fit:	0.0075739	

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:	0.0	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:	0.13336
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000016032	mg/L per period
R-Squared error of fit:	0.35562	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000015198	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000022843	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000077373	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.2334
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.000012301	mg/L per period
R-Squared error of fit:	0.29659	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	-0.000011840	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000018626	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000052858	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	-3.0254	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	Downward	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	00400
Location Class:		Parameter:	pH (field)
Location Type:		Units:	STD
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

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:	0.00	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		
S Statistic:	0.71	
Z test:	1.64	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.088397	mg/L per period
R-Squared error of fit:	0.093181	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.087156	mg/L per period
Lower Confidence Limit of Slope, M1:	-.21124	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0011883	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.7133
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000000000	mg/L per period
R-Squared error of fit:	0.000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00013398	mg/L per period
R-Squared error of fit:	0.0086088	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000051993	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00036902	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00012943	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-0.49971
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000024588	mg/L per period
R-Squared error of fit:	0.34940	

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:	0.0	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:	-3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.010643	mg/L per period
R-Squared error of fit:	0.47591	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.0085317	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.011042	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0041403	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-3.9279
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.023704	mg/L per period
R-Squared error of fit:	0.019105	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.035543	mg/L per period
Lower Confidence Limit of Slope, M1:	-.11464	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.015931	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-1.1418
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000025902	mg/L per period
R-Squared error of fit:	0.044703	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000031153	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000014660	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.000078347	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	1.0186
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000025883	mg/L per period
R-Squared error of fit:	0.37505	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.00000015083	mg/L per period
Lower Confidence Limit of Slope, M1:	0.0	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00000034820	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	2.2935
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01002
Location Class:		Parameter:	Arsenic, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000027505	mg/L per period
R-Squared error of fit:	0.079564	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00000017065	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00000030918	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:	-1.8325
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000043531	mg/L per period
R-Squared error of fit:	0.15929	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000036535	mg/L per period
Lower Confidence Limit of Slope, M1:	-.0000071348	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000012809	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.3019
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01007
Location Class:		Parameter:	Barium, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000068488	mg/L per period
R-Squared error of fit:	0.20559	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-.0000062104	mg/L per period
Lower Confidence Limit of Slope, M1:	-.000010804	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-.0000025374	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.6230
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000034738	mg/L per period
R-Squared error of fit:	0.0041975	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	0.000078530	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00014966	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00018828	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	0.62454
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01022
Location Class:		Parameter:	Boron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.000045330	mg/L per period
R-Squared error of fit:	0.0050325	
Sen's Non-parametric estimate of the slope (two-tailed test)		
Median Slope:	0.000075301	mg/L per period
Lower Confidence Limit of Slope, M1:	-.00014215	mg/L per period
Upper Confidence Limit of Slope, M2+1:	0.00021845	mg/L per period
Non-parametric Mann-Kendall Test for Trend		
S Statistic:	0.67796	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000015329	mg/L per period
R-Squared error of fit:	0.062113	

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:	0.0	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:	-1.2709
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000030362	mg/L per period
R-Squared error of fit:	0.00024860	

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:	0.0	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:	0.051361
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01037
Location Class:		Parameter:	Cobalt, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000067354	mg/L per period
R-Squared error of fit:	0.036638	

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:	0.0	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:	-0.95427
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01042
Location Class:		Parameter:	Copper, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000012452	mg/L per period
R-Squared error of fit:	0.0046659	
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:	0.0	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:	0.21268	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01045
Location Class:		Parameter:	Iron, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00052488	mg/L per period
R-Squared error of fit:	0.12794	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.00021981	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.00050249	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.000095959	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.3907
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.0000014135	mg/L per period
R-Squared error of fit:	0.023113	

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:	0.0	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:	2.3855
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01051
Location Class:		Parameter:	Lead, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	-0.00000057336	mg/L per period
R-Squared error of fit:	0.14247	
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:	-0.00000028554	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:	-2.6707	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000057207	mg/L per period
R-Squared error of fit:	0.12923	

Sen's Non-parametric estimate of the slope (two-tailed test)

Median Slope:	-0.000018787	mg/L per period
Lower Confidence Limit of Slope, M1:	-0.000049064	mg/L per period
Upper Confidence Limit of Slope, M2+1:	-0.0000075129	mg/L per period

Non-parametric Mann-Kendall Test for Trend

S Statistic:	-2.4621
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000036289	mg/L per period
R-Squared error of fit:	0.073609	

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:	0.0	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:	2.3855
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012294	mg/L per period
R-Squared error of fit:	0.34940	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000012294	mg/L per period
R-Squared error of fit:	0.34940	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000057434	mg/L per period
R-Squared error of fit:	0.027924	

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:	0.0	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:	-0.99528
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

Meredosia Power Station
Mann-Kendall Trend Analysis

User Supplied Information

Location ID:	APW-9	Parameter Code:	01067
Location Class:		Parameter:	Nickel, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-.0000023830	mg/L per period
R-Squared error of fit:	0.15060	

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:	-.0000018714	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:	-2.4877
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	Downward

Meredosia Power Station
Mann-Kendall Trend Analysis

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000024588	mg/L per period
R-Squared error of fit:	0.34940	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01077
Location Class:		Parameter:	Silver, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000024588	mg/L per period
R-Squared error of fit:	0.34940	

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:	0.0	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:	3.1420
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line		
Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	
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:	0.0	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:	0.0	
Z test:	1.6449	
At the 95.0 % Confidence Level (two-tailed test):	None	

**Meredosia Power Station
Mann-Kendall Trend Analysis**

User Supplied Information

Location ID:	APW-9	Parameter Code:	01092
Location Class:		Parameter:	Zinc, total
Location Type:		Units:	mg/L
Confidence Level:	95.00%		
Date Range:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000043995	mg/L per period
R-Squared error of fit:	0.019810	

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:	0.0	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:	-0.58632
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.000000062607	mg/L per period
R-Squared error of fit:	0.11686	

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:	0.0	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:	1.7875
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.000000074283	mg/L per period
R-Squared error of fit:	0.00042650	

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:	0.0	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:	-1.10288
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

**Meredosia Power Station
Mann-Kendall Trend Analysis**

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:	12/13/2010 to 11/14/2024		

Trend Analysis

Trend of the least squares straight line

Slope (fitted to data):	-0.00000000000000	mg/L per period
R-Squared error of fit:	0.00000000000000	

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:	0.0	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:	0.0
Z test:	1.6449
At the 95.0 % Confidence Level (two-tailed test):	None

APPENDIX C

SITE INSPECTION REPORTS

Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Inspection Date: 03/18/2024

Location: Meredosia Power Plant

Temperature: 30 F

Weather: Sunny, windy

System Description: Fly Ash Pond
Bottom Ash Embankment

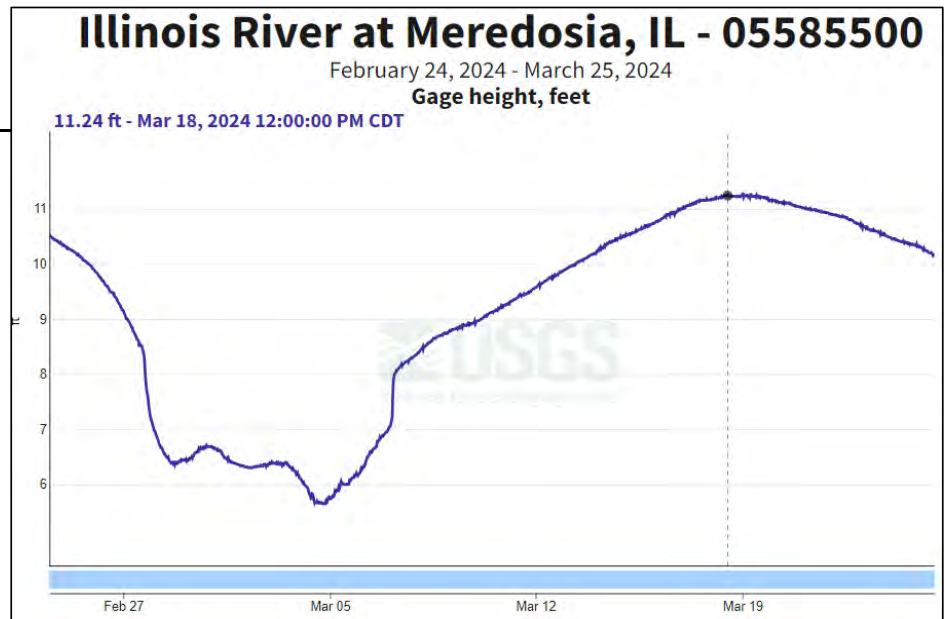
River Level 429.24
gage at Meredosia 11.24

Gage 0' = 418.00' MSL
Bottom Ash Pond bottom
is at 430.00' MSL

Engineer/Inspectors: Annie Muehlfarth

Owner Representative: n/a

Initial Closure Turf Installation: Sep-2018



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.

NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
Quarterly Site Inspection Checksheet

Page 2 of 8

Date	03/18/2024
Inspector	Annie Muehlfarth
Temperature	30 F
Weather	Sunny, windy

	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	Closure turf is in good condition.
	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.
NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Bottom Ash Embankment - ClosureTurf
Quarterly Site Inspection Checksheet

Page 3 of 8

Date	03/18/2024
Inspector	Annie Muehlfarth
Temperature	30 F
Weather	Sunny, windy

	Item	Condition Code *	Comments
Roadway	Gravel Road	GC	Roadway gravel is compacted and smooth.
	Drainage	GC	No drainage problems at this time.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe is minimal.
	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 condition.
	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

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



Bottom Ash CAP

North Embankment



South embankment



Southwest corner



Letdown



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: 06/03/2024

Location: Meredosia Power Plant

Temperature: 75 F

Weather: Sunny

System Description: Fly Ash Pond
Bottom Ash Embankment

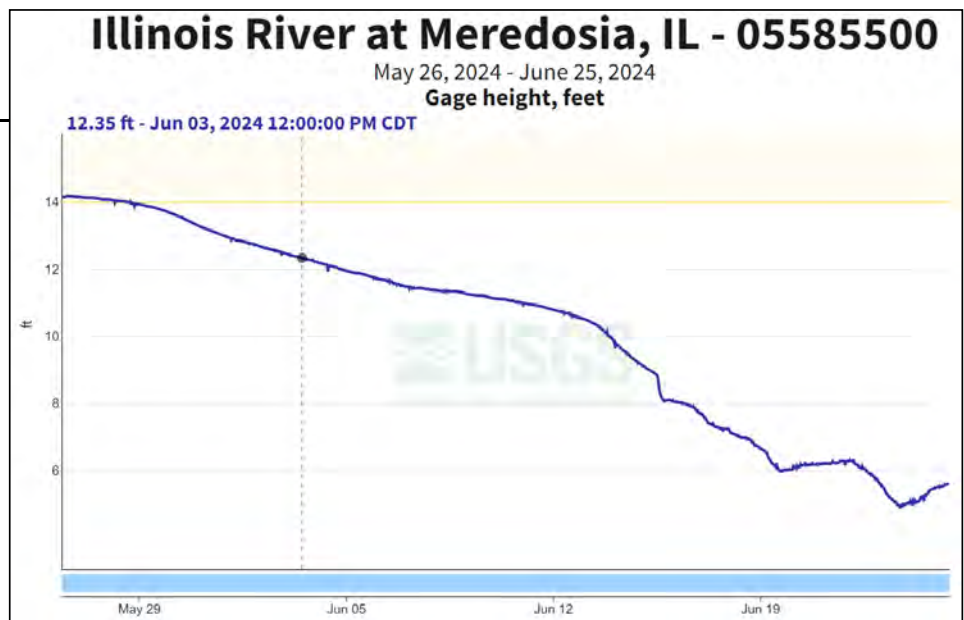
River Level 430.35
gage at Meredosia 12.35

Gage 0' = 418.00' MSL
Bottom Ash Pond bottom
is at 430.00' MSL

Engineer/Inspectors: Annie Muehlfarth

Owner Representative: n/a

Initial Closure Turf Installation: Sep-2018



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.

NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
Quarterly Site Inspection Checksheet

Page 2 of 8

Date	06/03/2024
Inspector	Annie Muehlfarth
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	GC	Closure turf is in good condition.
	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. Mowing/herbicide application occurred in May 2024.
	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.
NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Bottom Ash Embankment - ClosureTurf
Quarterly Site Inspection Checksheet

Page 3 of 8

Date	06/03/2024
Inspector	Annie Muehlfarth
Temperature	75 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.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe is minimal. Mowing/herbicide application occurred in May 2024.
	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 condition.
	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

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



Bottom Ash CAP

North Embankment



South embankment



Southwest corner



Letdown



Old East Pond

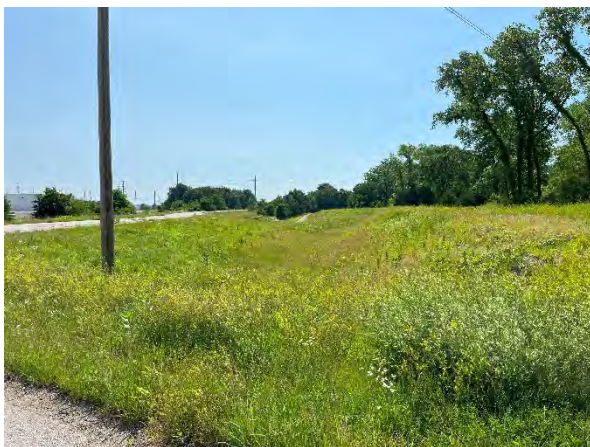
East embankment



West embankment



North embankment



South embankment



Inspection Form for Closed Ponds at Ameren Facilities

Project Name: Quarterly Ash Pond Cap Inspection

Inspection Date: 07/24/2024

Location: Meredosia Power Plant

Temperature: 90 F

Weather: Sunny

System Description: Fly Ash Pond
Bottom Ash Embankment

River Level 429.68

gage at Meredosia 11.68

Gage 0' = 418.00' MSL

Bottom Ash Pond bottom

is at 430.00' MSL

Engineer/Inspectors: Annie Muehlfarth

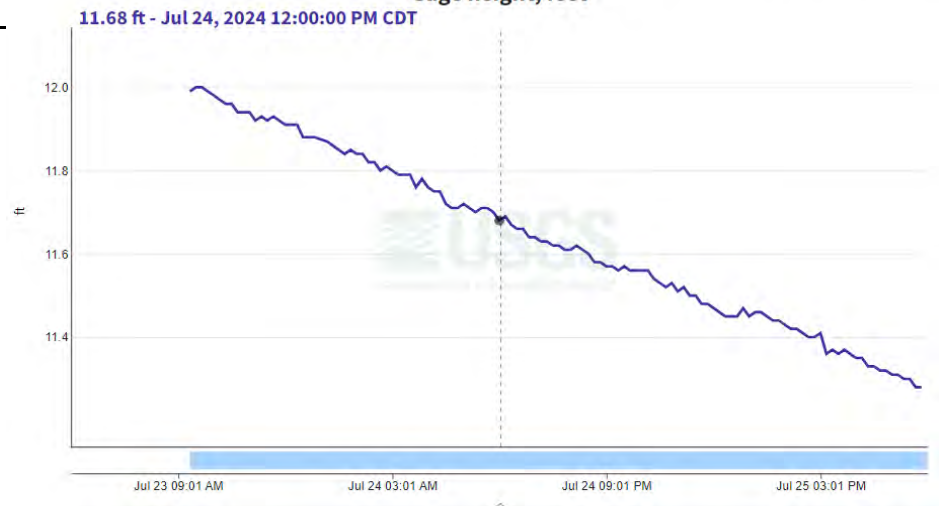
Illinois River at Meredosia, IL - 05585500

July 23, 2024 - July 25, 2024

Gage height, feet

Owner Representative: n/a

Initial Closure Turf Installation: Sep-2018



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.

NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
Quarterly Site Inspection Checksheet

Page 2 of 8

Date	07/24/2024
Inspector	Annie Muehlfarth
Temperature	90 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	Closure turf is in good condition.
	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. Mowing/herbicide application occurred in May 2024.
	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.
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Meredosia Power Station
Bottom Ash Embankment - ClosureTurf
Quarterly Site Inspection Checksheet

Page 3 of 8

Date	07/24/2024
Inspector	Annie Muehlfarth
Temperature	90 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.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe is minimal. Mowing/herbicide application occurred in May 2024.
	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 condition.
	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

Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



Bottom Ash CAP

North Embankment



South embankment



Southwest corner



Letdown



Old East Pond

East embankment



West embankment



North embankment



South embankment



NI = Not Inspected. Reason should be stated in comment

Meredosia Power Station
Fly Ash Pond Cap - ClosureTurf
Quarterly Site Inspection Checksheet

Page 2 of 8

Date	12/06/2024
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	Closure turf is in good condition.
	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. Mowing occurred in December 2024.
	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

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Meredosia Power Station
Bottom Ash Embankment - ClosureTurf
Quarterly Site Inspection Checksheet

Page 3 of 8

Date	12/06/2024
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.
	Other	GC	No issues.
Embankment	Vegetation at Toe	GC	Vegetation at toe is minimal. Mowing occurred in December 2024.
	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. 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

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GC = Good Condition. Working properly.
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Fly Ash Pond Cap – Outlet 1 and embankment (facing east and west)



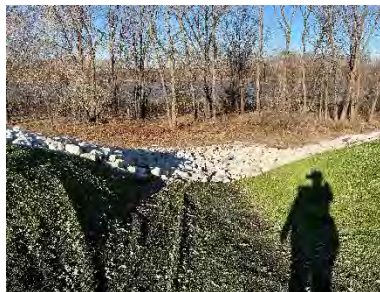
Fly Ash Pond Cap – Outlet 2 and embankment (facing east and west)



Fly Ash Pond Cap – Outlet 3 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 4 and embankment (facing north and south)



Fly Ash Pond Cap – Outlet 5 and embankment (looking east and west)



Fly Ash Pond Cap – Outlet 6 and embankment (facing east and west)



Bottom Ash CAP

North Embankment



South embankment



Southwest corner



Letdown



Old East Pond

East embankment



West embankment



North embankment



South embankment

