JETT ENVIRONMENTAL CONSULTING

May 24, 2018

Received
MAY 29 2018
SWMP

Ms. Charlene Fitch
Missouri Department of Natural Resources
Division of Environmental Quality
1730 East Elm Street
Jefferson City, Missouri 65101

Re: Detection Monitoring Program Groundwater Statistical Analysis Report
Bridgeton Landfill, LLC – Bridgeton Landfill
Missouri DNR Permit #MO – 118912
Bridgeton, Missouri

Dear Ms. Fitch:

On behalf of the Bridgeton Landfill, LLC – Bridgeton Landfill, Jett Environmental Consulting is submitting the Detection Monitoring Program Groundwater Statistical Analysis Report for the First Quarter 2018 groundwater monitoring event.

If you have any questions or comments, please contact me at steve.jett@jettenviro.com or 314-496-4654.

Sincerely,

Steve Jett, P.G.
Owner

Attachment: Groundwater Statistical Analysis Report (1 Hardcopy)

cc: Dana Sincox – Republic Services (1 Hardcopy & PDF via Email)
Mark Milward – Saint Louis County Department of Public Health (PDF via Email)

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Wentzville, MO 63385

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DETECTION MONITORING PROGRAM GROUNDWATER STATISTICAL ANALYSIS REPORT

First Quarter 2018 Sampling Event

Bridgeton Landfill, LLC
Bridgeton Landfill
Bridgeton, Missouri

MDNR PERMIT No. 118912

May 2018

Prepared by:

JETT ENVIRONMENTAL CONSULTING

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1.0 INTRODUCTION

On behalf of the Bridgeton Landfill, LLC - Bridgeton Landfill, Jett Environmental Consulting has prepared this Detection Monitoring Program (DMP) Groundwater Statistical Analysis Report for the First Quarter 2018 quarterly groundwater monitoring event. Sampling for the First Quarter 2018 event was conducted by Feezor Engineering, Inc. on February 20, 21, 22, and 26, 2018. Laboratory analytical testing was performed by Pace Analytical Services, LLC. Statistical evaluations were performed using the statistical analysis software package, Sanitas™, which follows a documented decision logic that incorporates the United States Environmental Protection Agency's (USEPA's) March 2009 Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance (hereafter, Unified Guidance).

2.0 SITE BACKGROUND AND MONITORING NETWORK

Jett Environmental Consulting statistically evaluated the detection monitoring results from the First Quarter 2018 event using intra-well prediction limits. Prediction limits are considered a powerful tool for groundwater statistical analysis, when feasible, due to their inherent low false negative and false positive rates utilizing confirmatory resampling, if necessary.

The background period utilized for this report includes samples collected from February 1997 through Second Quarter 2015. The background period will be updated approximately every two years. Statistical outliers are removed as described **Section 4.1**. Monitoring results from three hydrostratigraphic zones are statistically evaluated at the Bridgeton Landfill. These zones are described in **Section 3.0**. **Table 1** lists the detection monitoring wells evaluated in this report. As discussed in the Groundwater Statistical Analysis Report for the Third Quarter 2017 event, inorganic results from PZ-104SS and PZ-104-SD from Second Quarter 2017 have been deemed anomalous and will not be utilized in future statistical evaluations of PZ-104-SS and PZ-104-SD.

The facility has prepared statistical power curve graphs to allow Missouri Department of Natural Resources (MDNR) to perform comparisons between the current DMP and USEPA-recommended standards. Under the USEPA's *Unified Guidance*, intra-well prediction limits are constructed to have a site-wide false positive rate (SWFPR) of 10% annually, or 2.5% per event for a quarterly sampled facility. The power of the statistical program within each hydrostratigraphic zone is as follows:

Alluvial Zone: Based on the smallest pre-screening background size of n = 37 for a parametric prediction limit in the Alluvial Zone, the annual statistical power of the facility's monitoring program under a "1-of-2" verification resampling scheme is approximately 95% for concentration increases of 3 standard deviations and 99% for increase of 4 standard deviations. Based on the smallest pre-screening background size of n = 40 for a non-parametric prediction limit in the Alluvial Zone, the annual power of the program is approximately 63% for increases of 3 standard deviations and 90% for increases of 4 standard deviations.

St. Louis Formation Zone: Based on the smallest pre-screening background size of n = 36 for a parametric prediction limit in the St. Louis Formation Zone, the annual statistical power of the facility's monitoring program under a "1-of-2" verification resampling scheme is approximately 90% for concentration increases of 3 standard deviations and 99% for increases of 4 standard deviations. Based on the smallest pre-screening background size of n = 38 for a non-parametric prediction limit in the St. Louis Formation Zone, the annual power of the program is approximately 63% for increases of 3 standard deviations and 90% for increases of 4 standard deviations.

Salem Formation Zone: Based on the smallest pre-screening background size of n = 35 for a parametric prediction limit in the Salem Formation Zone, the annual statistical power of the facility's monitoring program under a "1-of-2" verification resampling scheme is approximately 85% for

concentration increases of 3 standard deviations and 99% for increases of 4 standard deviations. Based on the smallest pre-screening background size of n = 38 for a non-parametric prediction limit in the Salem Formation Zone, the annual power of the program is approximately 63% for increases of 3 standard deviations and 90% for increases of 4 standard deviations.

Appendix A presents the power curve graphs for the facility's monitoring program. As the size of the background period increases, the statistical power will likewise continue to increase.

A full suite of sample bottles was collected from each well during the First Quarter 2018 event. During Second Quarter 2017, well PZ-110-SS was not able to be sampled due to inadvertent damage by one of the on-site contractors. The Missouri Geological Survey Wellhead Protection Division and MDNR were notified of the damaged well on May 2, 2017, and a letter was submitted to MDNR on July 24, 2017 describing the techniques that will be utilized for well abandonment and replacement. Well PZ-110-SS was abandoned on August 14, 2017. Replacement well PZ-111-SS installation was completed on August 29, 2017 and was able to be initially sampled during the Third Quarter 2017 event. The First Quarter 2018 event is considered the third of four quarterly background sampling events for PZ-111-SS. Well PZ-111-SS will be statistically evaluated after four rounds of statistically representative data have been collected from the well.

A field duplicate was collected at well PZ-104-SS. A field blank was collected at well PZ-104-KS. Two trip blanks were shipped to the laboratory with the samples.

For constituents where both the original and field duplicate results were greater than five times the reporting limit (RL), each result exhibited a relative percent difference (RPD) of 20% or less. For constituents where the original and/or field duplicate results were less than five times the RL, the results exhibited a difference that was less than or equal to the RL. **Appendix A** provides a copy of the duplicate analysis comparison.

There were no detections above laboratory RLs in the field blank or trip blanks.

3.0 SITE HYDROGEOLOGY

The geologic and hydrogeologic setting for the Bridgeton Landfill was described in the Groundwater Technical Report, dated November 28, 2016, prepared by Feezor Engineering, Inc.

For the purposes of groundwater monitoring, the geology underlying the Bridgeton Landfill can be divided into five units of interest, from oldest to youngest: the Keokuk formation bedrock, the Warsaw formation bedrock, the Salem formation bedrock, the St. Louis formation bedrock, and unconsolidated materials consisting of alluvium and loess. According to the Groundwater Technical Report, four of these general hydrostratigraphic zones are monitored at the site. The Warsaw formation is not a groundwater-bearing unit and is therefore not discussed below.

The former quarry pits were constructed to a depth consistent with the upper portion of the Salem formation. Accordingly, portions of the Salem formation, St. Louis formation, and unconsolidated materials are absent in those areas where the landfill was constructed.

Keokuk Formation Bedrock: The Keokuk formation is a part of the Osagean series, which is in turn a part of the Mississippian system. The formation is a fresh to slightly- or moderately-weathered, thinly- to medium-bedded, medium-strong limestone. The color of the formation is generally very light gray to light olive. The limestone is dolomitic, with members that are variously described as siliceous and arenaceous, as well as porous and vuggy. The formation is characterized by chert layers and nodules. Fractures are rare in the Keokuk formation, generally occurring at frequencies of up to two fractures per foot. Where they occur, these fractures are generally irregular and rough, or—alternately—bedded and planar.

The top of the Keokuk formation is encountered at an elevation of approximately 115 to 126 ft/msl in the eastern portion of the landfill and approximately 115 ft/msl in the western portion of the landfill. The Keokuk formation is underlain by the Burlington formation and overlain by the Warsaw formation.

Warsaw Formation Bedrock: The Warsaw formation is a part of the Meramecian Series, which is in turn a part of the Mississippian system. The formation is a fresh, thickly-bedded, weak to medium-strong, microcrystalline to coarsely crystalline calcareous claystone and limestone. The formation includes abundant interbedding of dolomite, claystone, siltstone, clayey siltstone, and silty claystone. The lower portion of the Warsaw formation is predominantly thinly- to medium-bedded limestone, grading into the upper portion of the Keokuk formation, with thin chert layers and small chert nodules. The upper portion of the Warsaw formation is characterized by an approximately 2.5- to 10-foot thick claystone or siltstone layer, commonly referred to as the Warsaw Shale. The color of the formation is generally dark greenish gray to olive black. Formation members are variously described as arenaceous or argillaceous, as well as porous and vuggy. Fractures are rare in the Warsaw formation, generally occurring at frequencies of up to one fracture per foot. Where they occur, these fractures are generally jointed, either irregular or planar, and either rough or smooth.

The top of the Warsaw formation is encountered at an elevation of approximately 240 ft/msl in the eastern portion of the landfill and approximately 250 to 260 ft/msl in the western portion of the landfill. The thickness of the Warsaw formation ranges from approximately 130 to 145 feet. The Warsaw formation is underlain by the Keokuk formation and overlain by the Salem formation. As noted above, the Warsaw formation is not a groundwater-bearing unit, and is therefore not monitored under the facility's groundwater monitoring programs.

Salem Formation Bedrock: The Salem formation is a part of the Meramecian Series, which is in turn a part of the Mississippian system. The formation is a fresh, thinly- to thickly-bedded, medium-strong limestone. The color of the formation is generally pale yellowish brown to light olive gray. The limestone is dolomitic and fossiliferous. The formation is also characterized by widespread interbedded dolomite layers and scattered chert clasts, nodules, and layers. Fractures are rare in the Salem formation, generally occurring at frequencies ranging from zero to one fracture per foot in the lower portion of the formation and up to two fractures per foot in the upper portion of the formation. Where they occur, these fractures are generally jointed, irregular, and rough, or—alternately—jointed, planar, and smooth.

The top of the Salem formation is encountered at an elevation of approximately 320 ft/msl in the eastern portion of the landfill and approximately 328 to 340 ft/msl in the western portion of the landfill. The thickness of the Salem formation ranges from approximately 67 to 83 feet. Portions of the Salem formation were removed during quarrying activities, and as such the unit is partly absent in those areas where the landfill was constructed. The Salem formation is underlain by the Warsaw formation and overlain by the St. Louis formation.

St. Louis Formation Bedrock: The St. Louis formation is a part of the Meramecian series, which is in turn a part of the Mississippian system. The formation is generally a fresh to slightly-weathered, thinly- to very thickly-bedded, microcrystalline to medium crystalline, medium-strong to strong limestone. The color of the formation is generally very light gray to olive gray. The limestone is dolomitic, and the upper units of the formation are brecciated, stylolitic, and fossiliferous. The St. Louis formation is also characterized by periodic claystone and siltstone beds and layers. The upper units of the formation contain occasional iron-oxide concretions and chert nodules. Fractures generally occur in the St. Louis formation at a frequency of zero to ten fractures per foot. Where they occur, these fractures are generally jointed, irregular, rough, and infilled with clay.

The top of the St. Louis formation is encountered at an elevation of approximately 425 to 460 ft/msl in the eastern portion of the landfill and approximately 379 to 445 ft/msl in the western portion of the landfill. The thickness of the St. Louis formation ranges from approximately 65 to 130 feet.

Portions of the St. Louis formation were removed during quarrying activities, and as such the unit is absent in those areas where the landfill was constructed. The St. Louis formation is underlain by the Salem formation and overlain by unconsolidated materials.

Unconsolidated Materials: The unconsolidated materials that overlie the St. Louis formation at the Bridgeton Landfill are comprised primarily of alluvium overlain by loess. The alluvium ranges from a silty clay and clayey silt to a sand, and the loess ranges from a silty clay to a clayey silt. The loess was redeposited from braided glacial melt-out drainages by westerly winds during the late Pleistocene. The thickness of the loess is greatest in the eastern portion of the landfill. In the eastern portion of the landfill, the thickness of the loess is approximately 13 to 22 feet, and the thickness of the alluvium is approximately 12 to 32 feet. The loess is thinner in the western portion of the site, and occasionally absent, due to quarrying and landfilling activities, as well as erosion within the floodplain. In the western portion of the site, the thickness of the loess (where present) is approximately 10 to 15 feet, and the thickness of the alluvium is up to approximately 110 feet. Portions of the alluvium and loess were removed during quarrying activities, and as such these materials are absent in those areas where the landfill was constructed.

Appendix B presents the groundwater potentiometric surface maps based on depth to water data measured on February 14, 2018. **Appendix B** also includes tables presenting the elevation data for both the groundwater monitoring wells and leachate collection sumps.

4.0 STATISTICAL PROCEDURES

The *Sanitas*™ program was utilized to compile and statistically evaluate the data for the First Quarter 2018 monitoring event.

4.1 Outliers

Prior to the determination of intra-well prediction limits, the background data were evaluated for the presence of statistical outliers. Where the background data size was $n < 20$, Dixon's outlier test was utilized with a Type I error rate of $\alpha = 0.05$, and where the background data size was $n \geq 20$, Rosner's outlier test was utilized with a Type I error rate of $\alpha = 0.01$. Dixon's and Rosner's tests are not appropriate for background data that are not normally or log-normally distributed. Accordingly, the data sets were evaluated for normality prior to outlier evaluation. The normality of background data was evaluated using the Shapiro-Wilk test with a Type I error rate of $\alpha = 0.1$ where $n < 10$, $\alpha = 0.05$ where $10 \leq n < 20$, and $\alpha = 0.05$ where $n \geq 20$. In those cases where the background data were determined to not be normally or log-normally distributed, outlier evaluation was not performed.

Statistical outliers identified by the outlier tests were removed from the background data prior to the determination of intra-well prediction limits. Outlier evaluation results are presented on the individual prediction limits graphs presented in **Appendices C**, **D**, and **E**.

4.2 Screening for Statistical Trends

Prior to the determination of intra-well prediction limits, the background data were evaluated for increasing statistical trends. Statistical trends were evaluated using the Mann-Kendall trend test at a 98% confidence (Type I error rate of $\alpha = 0.01$ per tail). In those cases where the background data were determined to exhibit an increasing statistical trend (or either an increasing or decreasing statistical trend for field pH), the most recent background data were excluded until the data no longer exhibited a statistical trend. For each constituent-well pair that exhibited an increasing statistical trend, this modified background data period was utilized in the determination of the intra-well prediction limit. Trend evaluation results, including a summary of the constituent-well pairs that utilized modified background data periods, are presented in **Appendices C**, **D**, and **E**.

4.3 Intra-Well Prediction Limits

The prediction limit is a statistical method used to compare a single observation to a group of observations. The prediction limit is calculated to include observations from the same population with a specified confidence. In groundwater monitoring, a prediction limit approach may be used to make comparisons between background and compliance data. The limit is developed to contain all future observations, within a certain probability. If any future observation exceeds the prediction limit, this is considered statistically significant evidence that the observation is not representative of background.

The background data were first evaluated for normality using the Shapiro-Wilk test with at Type I error rate of $\alpha = 0.1$ where $n < 10$, $\alpha = 0.05$ where $10 \leq n < 20$, and $\alpha = 0.05$ where $n \geq 20$. In those instances where the background data were not normally distributed, the data were transformed using each of the possible transformations in the "ladder of powers": $x^{1/2}$, x^2, $x^{1/3}$, x^3, $ln(x)$, x^4, x^5, x^6. Each transformed data set was then re-evaluated for normality. The first transformation that resulted in a normal distribution was utilized for the determination of the intra-well prediction limit. In those instances where the background data were normal or transformed-normal and also consisted of less than 50% non-detects, a parametric intra-well prediction limit was determined. If 15% or less of the background data consisted of non-detects, the non-detects were replaced with concentrations equal to one-half of the reporting limit prior to the determination of parametric intra-well prediction limits. If greater than 15%, but less than 50% of the background data consisted of non-detects, then the mean and standard deviation utilized in the determination of the parametric intra-well prediction limit were estimated according to the Kaplan-Meier method.

In those instances where the background data were not normal or transformed-normal, or where the background data consisted of 50% or greater non-detects, a non-parametric intra-well prediction limit was determined.

Table 2 lists the prediction limit exceedances observed for the First Quarter 2018 event. Intra-well prediction limit summary tables and graphs are presented in **Appendices C**, **D**, and **E**.

For the First Quarter 2018 event, there were two results that exceeded an intra-well prediction limit in the Alluvial Zone (see **Table 2**).

There were eighteen results that exceeded their respective intra-well prediction limits in the St. Louis Formation Zone (see **Table 2**) during the First Quarter 2018 event.

There were fifteen results that exceeded their respective intra-well prediction limits in the Salem Formation Zone (see **Table 2**) during the First Quarter 2018 event.

Of the thirty-five prediction limit exceedances observed for the First Quarter 2018 event, each was also observed during the previous monitoring event, with the exceptions: total manganese at St. Louis Formation zone well PZ-105-SS, total magnesium at St. Louis Formation well PZ-106-SS, ammonia at St. Louis Formation zone well PZ-115-SS, total chromium at Salem Formation zone well PS-104-SD, total magnesium at Salem Formation wells PZ-104-SD and PZ-106-SD, total nickel at Salem Formation Zone well PZ-104-SD, total sodium at Salem Formation Zone well PZ-106-SD, and total dissolved solids at Salem Formation Zone Well PZ-106-SD.

The First Quarter 2018 event served as a confirmatory event for the prediction limits observed during the Fourth Quarter 2017 event: total phosphorus at Alluvial Zone well PZ-114-AS; total calcium and total hardness at St. Louis Formation Zone well PZ-106-SS; and chloride at St. Louis Formation Zone well PZ-201A-SS. The new exceedances observed for the Fourth Quarter 2017 event were confirmed as exceedances for the First Quarter 2018 event.

4.4 Statistical Trends in Exceeding Constituents

Each constituent that exceeded its intra-well prediction limit was evaluated for increasing statistical trends. Statistical trends were evaluated using the Mann-Kendall trend test with a 98% confidence (Type I error rate of $\alpha = 0.01$ per tail).

Trend evaluation indicated that of the twenty-six constituent-well pairs that exhibited confirmed intra-well prediction limit exceedances for the First Quarter 2018 event, twenty-three also exhibited increasing statistical trends. Total barium at PZ-114-AS, total magnesium at PZ-105SS, and field specific conductance at PZ-106-SD did not exhibit an increasing statistical upward trend.

Trend evaluation results for constituents that exceeded intra-well prediction limits are presented in **Appendices C**, **D**, and **E**. Also presented in **Appendices C**, **D**, and **E** are time series plots for each VOC detection and each of the constituents that were statistically evaluated in this report.

4.5 Organic Constituent Results

During the First Quarter 2018 monitoring event, typical organic constituents were detected at three wells: Alluvial Zone well PZ-114-AS, St. Louis Formation Zone well PZ-104-SS, and Salem Formation Zone well PZ-104-SD.

1,4-Dichlorobenzene, benzene, and chlorobenzene were detected at upgradient Alluvial Zone well PZ-114-AS. 1,4-Dichlorobenzene has been detected at PZ-114-AS since 2002. Benzene has been detected at PZ-114-AS since 2003. Chlorobenzene has been detected at PZ-114-AS since 1997. **Table 3** presents the historical results for organic constituents detected at PZ-114-AS. As described in the MDNR's aforementioned October 23, 2003 letter, organic constituent detections at PZ-114-AS appear to be related to impacts from the upgradient PM Resources, Inc. property.

The following organic constituent was detected at well PZ-104-SS: benzene. Detections of organic constituents were first observed at PZ-104-SS in November 2012. **Table 4** presents the historical results for organic constituents that have been detected at PZ-104-SS from November 2012 onward. As shown on the time series graphs in **Appendix D**, VOC concentrations and the number of VOC detections at PZ-104-SS have decreased significantly over the past several years. The confirmed organic constituent detections at PZ-104-SS are currently being evaluated under the assessment monitoring program, as detailed in the original December 17, 2013 Assessment Monitoring Plan (AMP).

The following organic constituents were detected at well PZ-104-SD: benzene, toluene, and total xylenes. Detections of organic constituents were first observed at PZ-104-SD in May 2012. **Table 4** presents the historical results for organic constituents that have been detected at PZ-104-SD from May 2012 onward. As shown on the time series graphs in **Appendix E**, VOC concentrations and the number of VOC detections at PZ-104-SD have decreased significantly over the past several years. The confirmed organic constituent detections at PZ-104-SD are currently being evaluated under the assessment monitoring program, as detailed in the AMP.

5.0 STATISTICAL RESULTS SUMMARY

For the First Quarter 2018 monitoring event, there were two results that exceeded an intra-well prediction limit in the Alluvial Zone. There were eighteen results that exceeded their respective limits in the St. Louis Formation Zone. There were fifteen results that exceeded their respective limits in the Salem Formation Zone.

Of the thirty-five prediction limit exceedances observed for the First Quarter 2018 event, each was also observed during the previous monitoring event, with the exceptions: total manganese at St. Louis Formation zone well PZ-105-SS, total magnesium at St. Louis Formation well PZ-106-SS,

ammonia at St. Louis Formation zone well PZ-115-SS, total chromium at Salem Formation zone well PS-104-SD, total magnesium at Salem Formation wells PZ-104-SD and PZ-106-SD, total nickel at Salem Formation Zone well PZ-104-SD, total sodium at Salem Formation Zone well PZ-106-SD, and total dissolved solids at Salem Formation Zone Well PZ-106-SD.

The First Quarter 2018 event served as a confirmatory event for the prediction limits observed during the Fourth Quarter 2017 event: total phosphorus at Alluvial Zone well PZ-114-AS; total calcium and total hardness at St. Louis Formation Zone well PZ-106-SS; and chloride at St. Louis Formation Zone well PZ-201A-SS. The new exceedances observed for the Fourth Quarter 2017 event were confirmed as exceedances for the First Quarter 2018 event.

Well PZ-104-SD exhibited confirmed exceedances and upward trends for the following inorganic constituents in First Quarter 2018: total barium, chloride, total sodium, field specific conductance, total dissolved solids, and total organic carbon. PZ-104-SD also exhibited confirmed detections for the following organic constituents: benzene, toluene, and total xylenes. VOC concentrations at PZ-104-SD have been trending downward over at least the last three years. As noted above, PZ-104-SD is currently being evaluated under the assessment monitoring program, as detailed in the AMP.

Appendix F presents a copy of the laboratory analytical report and field information forms for the First Quarter 2018 event.

5.1 Recent Submittals

On October 14, 2016, the site received a comment letter from the MDNR. The MDNR's letter provided comments on select Bridgeton Landfill groundwater detection and assessment monitoring reports that were previously submitted from October 2014 through April 2016. In addition to the responses to each comment provided in the October 14, 2016 MDNR letter, the following requested items were submitted by the site on November 14, 2016: Updated Assessment Monitoring Plan, and Alternate Source Demonstration. On November 28, 2016, the following additional requested items were submitted by the site: Groundwater Technical Report, and Interim Corrective Measures Technical Report.

5.1.1 Alternate Source Demonstration

The November 14, 2016 Alternate Source Demonstration addressed confirmed statistically significant increases (SSIs) that have been observed at the Bridgeton Landfill's groundwater detection monitoring wells between September 2014 and March 2016 (as addressed in the October 14, 2016 MDNR letter). Historically, the MDNR had specified that an ASD or AMP is not required when a Bridgeton Landfill detection monitoring well exhibits a confirmed inorganic prediction limit exceedance, unless the inorganic constituent also exhibits a concurrent statistically significant upward trend and the same well exhibits a concurrent confirmed organic constituent detection above the laboratory RL. The MDNR's position was originally articulated in a comment letter dated October 23, 2003. Of the constituent-well pairs identified by the MDNR as exhibiting confirmed exceedances with upward trends between September 2014 and March 2016, none exhibited concurrent confirmed organic constituent detections. An ASD or AMP was accordingly not required for these SSIs, per the MDNR's October 23, 2003 letter. However, given the assessment monitoring program that is presently in place for identified impacts to groundwater at detection monitoring wells PZ-104-SS and PZ-104-SD, the facility proactively prepared the November 14, 2016 ASD to address confirmed inorganic SSIs at other detection monitoring wells. The ASD concluded that the inorganic SSIs observed at other wells are a result of natural variation, and are 1) not indicative of a new impact to groundwater or 2) not related to the impact previously identified at PZ-104-SS and PZ-104-SD. In a January 11, 2018 letter, MDNR concurred with the ASD approach. The items addressed in the ASD are consistent with confirmed exceedances noted in the First Quarter 2018 event.

5.1.2 Assessment Monitoring Plan

Pursuant to Title 10 of the Missouri Code of State Regulations (CSR) 80-3.010 (11)(C)6.C, the facility submitted an AMP on December 17, 2013 in response to the confirmed exceedances, upward trends, and confirmed organic detections that were first observed at well PZ-104-SD in November 2012 and at PZ-104-SS in April 2013. In accordance with the AMP and a July 30, 2014 comment letter from the MDNR, the facility performs assessment monitoring events at PZ-104-SS and PZ-104-SD semi-annually in the second and fourth quarters. The results of assessment monitoring were most recently discussed in the August 30, 2017 Annual Assessment Monitoring Report with the next annual report scheduled to be submitted by August 31, 2018. Potential remedial alternatives to address the groundwater quality issues at wells PZ-104-SS and PZ-104-SD were discussed and evaluated in a February 19, 2016 Assessment of Corrective Measures Report Addendum by Feezor Engineering, Inc.

An updated AMP was also included in the site's November 14, 2016 submittal noted above. The updated version of the AMP was prepared in response to the October 14, 2016 MDNR comment letter. The MDNR's letter addressed the facility's August 18, 2014 responses to comments on the AMP. In its letter, the MDNR requested that the facility submit a complete, updated AMP incorporating revisions to the AMP that were presented in the August 18, 2014 submittal. The November 14, 2016 updated AMP is currently under review by the MDNR.

5.1.3 Groundwater Evaluation Report

A Groundwater Evaluation Report was submitted to MDNR on December 26, 2017 by Feezor Engineering, Inc. The Groundwater Evaluation Report presented and evaluated the results of groundwater monitoring performed at monitoring wells that are located near the landfill's North and South Quarry but are not currently sampled as a part of the facility's detection or assessment monitoring programs. The report also presented recommendations regarding the facility's groundwater monitoring well network and its detection and assessment monitoring programs based on the results observed at these "non-program" wells. In a March 19, 2018 letter, MDNR-SWMP concurred with the addition of wells to the detection and assessment monitoring programs. The March 19, 2018 MDNR letter stated the SWMP has requested the Missouri Geological Survey's opinion on the monitoring network recommendations.

A second comment letter from MDNR dated April 27, 2018 provided comments from the Missouri Geological Survey and subsequent comments from SWMP concerning future groundwater sampling at the Site. Specifically, SWMP determined that:

1. Wells PZ-208-SS and PZ-114-AS shall remain part of the groundwater monitoring network, but may be monitored at a lower frequency.
2. PZ-206-SS should be added to the detection monitoring network.
3. PZ-100-KS, PZ-106-KS, and PZ-111-KS should become part of the groundwater monitoring network. The monitoring frequency can be reduced to annually once a sufficient number of samples are collected for statistical evaluation.

The April 27, 2018 MDNR-SWMP letter also requested that a revised Groundwater Monitoring Plan incorporating the additional monitoring wells into the groundwater detection monitoring network and into the assessment monitoring network, as appropriate, be submitted to the agency within 15 days of receipt of the letter. Bridgeton Landfill, LLC submitted a response to the April 27, 2018 MDNR-SWMP letter on May 8, 2018.

5.2 Response to February 9, 2018 MDNR Comment Letter

In a letter dated February 9, 2018, MDNR provided comments on several detection monitoring and assessment monitoring reports that were previously submitted in 2016 and 2017. The February 9,

2018 MDNR letter requested that responses be provided in the site's next groundwater report. The following is a list of MDNR Comments, followed by respective responses:

Comment 1: *In general, the SWMP agrees with the statistical analysis that was performed by the consultant with a few exceptions. The SWMP statistical analyses of the November 2016 quarterly sampling event found two prediction limit exceedances for PZ-104-SD not reported in the November 2016 groundwater report. The output for the prediction limit analyses for ammonia and arsenic are enclosed for your review. Please submit a comment concerning these statistical outputs with the next groundwater report. The SWMP found both of the constituent-well pairs exhibited seasonality, while your consultant's analyses do not appear to have tested for seasonality, which could explain the difference.*

Response: The site does not perform seasonality testing, which is not prescribed in the facility's currently approved Statistical Analysis Plan. The differences appear to be due to seasonality testing applied by SWMP. The updated Statistical Plan, which will be submitted to MDNR-SWMP in the near future, will address seasonality within datasets.

Comment 2: *The SWMP's review of the November 2016 Quarterly Sampling Event notes the field blank at PZ-104-KS demonstrated a detection of acetone (12.1 µg/L) above the reporting limit (10 µg/L). While the SWMP acknowledges this was a very small detection above the reporting limit of a constituent that is a common laboratory contaminant, this detection should have been discussed in the narrative of the report. Please discuss any future volatile organic compounds (VOC) detections of this sort in future reports and please monitor PZ-104-KS closely in the next groundwater monitoring sampling event for VOC detections.*

Response: Agreed. The field blank detection of acetone during the November 2016 was noted within the Fourth Quarter 2016 Detection Monitoring Report. However, acetone was not detected in the monitoring well samples (including PZ-104-KS) during the November 2016 event. Well PZ-104-KS is an Assessment Monitoring Program well and is monitored on a semi-annual basis, along with the remaining Assessment Monitoring Program wells.

Comment 3: *The SWMP acknowledges that benzene is trending downward at PZ-104-SS and PZ-104- SD but the extent of the impact now extends to PZ-104-KS as noted in the July 2016 detections. The initial detections and confirmed detections of benzene and p- isopropyltoluene at PZ-104-KS and the second detection of methyl-tert-butyl ether at PZ- 104-SD are noted. A confirmation sampling event was performed on July 25, 2016, due to initial detections of benzene, p-isopropyltoluene, and total xylenes at well PZ-104-KS. Benzene and p-isopropyltoluene were confirmed present with the July 2016 verification sampling event. Additional sampling was conducted on PZ-104-KS in September 2016. The additional sampling reported benzene as non-detect (<5 µg/L) and p- isopropyltoluene as non-detect (<5 µg/L). The SWMP agrees that the proposed corrective measures in the February 19, 2016, Assessment of Corrective Measures Report Addendum by Feezor Engineering, Inc. for PZ-104-SS and PZ-104-SD would also apply to PZ-104-KS. Please immediately apply the measures to well PZ-104-KS and note this in the future assessment monitoring reports.*

Response: Wells screened in the Keokuk Formation, such as PZ-104-KS, are typically around 400 feet in depth, and exhibit an upward gradient, making it unlikely that leachate or landfill gas impacts from the shallower aquifers would have impacted the well. Bridgeton Landfill, LLC believes that PZ-104-KS has well integrity issues which have led to the recent low-level benzene detections. Field testing has shown concentrations of methane, carbon monoxide, and benzene at the PZ-104-KS well head, indicating the well has been compromised. Bridgeton Landfill, LLC will complete an evaluation of the integrity of PZ-104-KS and will submit the findings and recommendations to MDNR-SWMP prior to the Third Quarter 2018 monitoring event. The well will be sampled per the assessment monitoring program during Second Quarter 2018.

Comment 4: *Well PZ-110-SS exhibited a first time organic constituent detection during the June 2016 sampling event (benzene, 14.1 µg/L). The detection was confirmed during the third quarter 2016 sampling event (benzene, 5.2 µg/L). Well PZ-110-SS was resampled on October 19, 2016, and benzene was reported as a non-detect (<5 µg/L). The detection of benzene (well PZ-110-SS, 7.9 µg/L) was not discussed in the first quarter 2017 sampling event report. The detection was only noted in the laboratory analyses included with the report from Pace Analytical Services. The confirmed detection of benzene places well PZ-110-SS into assessment monitoring. Please provide an alternate source demonstration for the occurrence of benzene in PZ-110-SS or add the well to the current assessment monitoring program and perform the required additional sampling and testing for Appendix II constituents within ninety (90) days of receipt of this letter.*

Response: Well PZ-110-SS was inadvertently damaged by one of the on-site contractors prior to the Second Quarter 2017 event. The Missouri Geological Survey Wellhead Protection Division and MDNR were notified of the damaged well on May 2, 2017, and a letter was submitted to MDNR on July 24, 2017 describing the techniques that will be utilized for well abandonment and replacement. Well PZ-110-SS was abandoned on August 14, 2017. Replacement well PZ-111-SS installation was completed on August 29, 2017 and was able to be sampled during the Third Quarter 2017, Fourth Quarter 2017, and First Quarter 2018 events. Well PZ-111-SS has not had a VOC detection to date.

Comment 5: *The May 2017 Quarterly Sampling Event discussed the possibility that two well sample results (wells PZ-104-SS and PZ-104-SD) were inadvertently switched. The SWMP acknowledges that there is no evidence or proof that an inadvertent switch of the sample results occurred between wells but encourages the facility and the laboratory to be careful as to sample labelling practices.*

Response: Agreed.

Comment 6: *The SWMP notes that the potentiometric map for the third quarter report 2016 did not indicate a groundwater flow direction. The SWMP also notes 'North' is not indicated in the same direction on the second and third quarter 2016 reports. Please indicate groundwater flow direction on future maps and please verify the accuracy of potentiometric maps that have been submitted with a discussion in the next quarterly report.*

Response: Flow direction will be indicated on future maps. The orientation of the potentiometric maps was changed starting with the Second Quarter 2016 report in order for "North" to be aligned with the top of the page for clarity.

Comment 7: *Please include data for all wells sampled during each sampling event including wells MO-1-SS, MO-1-SDR, MO-2-SD, MO-3-SS, MO-3-SDR, D-85 and MW-1204 in the electronic data submittal for future sampling events. Please provide the data in the same format as the current submittal of groundwater monitoring data.*

Response: Data for all wells sampled during each sampling event will be provided to MDNR in the electronic data submittal for future sampling events. Please note that, while wells D-85 and MW-1204 will be added to the groundwater monitoring network (as described in the December 2017 GWER), wells MO-1-SS, MO-1-SDR, MO-2-SD, MO-3-SS, and MO-3-SDR have not historically been and are not planned to be added to the groundwater monitoring network.

Comment 8: *The November 2016 quarterly groundwater report also discusses various recent submittals concerning the Bridgeton Landfill. The Alternative Source Demonstration discussed in the report will be responded to separately. The other reports were discussed in a meeting on January 20, 2017, with SWMP personnel and representatives of Republic Services and their consultants. The SWMP looks forward to receiving the information concerning the proposed groundwater investigation discussed at the meeting.*

Response: The Groundwater Evaluation Report was submitted to MDNR on December 26, 2017 by Feezor Engineering, Inc. MDNR provided comments on the GWER in correspondence dated March 19, 2018 and April 27, 2018.

TABLES

TABLE 1 Detection Monitoring Wells – First Quarter 2018 Bridgeton Landfill, LLC Bridgeton Landfill	
Zone	**Groundwater Detection Monitoring Wells**
Alluvial	PZ-114-AS
St. Louis Formation	PZ-100-SS, PZ-104-SS, PZ-105-SS, PZ-106-SS, PZ-109-SS PZ-111-SS, PZ-115-SS, PZ-201A-SS, PZ-205-SS
Salem Formation	PZ-100-SD, PZ-104-SD, PZ-106-SD, PZ-111-SD

TABLE 2
Prediction Limit Exceedances - First Quarter 2018
Bridgeton Landfill, LLC
Bridgeton Landfill

Zone	Well	Constituent	Units	Result	Prediction Limit	Repeat from Fourth Quarter 2018?	Trend?
Alluvial	PZ-114-AS	Barium, Total	mg/L	1.21	1.10	Yes	No
		Phosphorus, Total	mg/L	2.1	2.0	Yes	Yes
St. Louis Formation	PZ-105-SS	Calcium, Total	mg/L	103	86	Yes	Yes
		Chloride	mg/L	76.1	25	Yes	Yes
		Magnesium, Total	mg/L	54.0	47	Yes	No
		Manganese, Total	mg/L	0.0888	0.0670	No	N/A
		Total Dissolved Solids	mg/L	581	540	Yes	Yes
	PZ-106-SS	Barium, Total	mg/L	0.207	0.170	Yes	Yes
		Calcium, Total	mg/L	111	110	Yes	Yes
		Chloride	mg/L	57.6	17	Yes	Yes
		Hardness, Total	mg/L	503	500	Yes	Yes
		Iron, Total	mg/L	2.86	1.40	Yes	Yes
		Magnesium, Total	mg/L	54.70	54.00	No	N/A
		Sodium, Total	mg/L	41.7	17.0	Yes	Yes
		Specific Conductance, Field	umhos/cm	1,101	950	Yes	Yes
		Total Dissolved Solids	mg/L	595	530	Yes	Yes
	PZ-115-SS	Ammonia	mg/L	1.70	0.34	No	N/A
		Manganese, Total	mg/L	0.0771	0.019	Yes	Yes
	PZ-201A-SS	Chloride	mg/L	4.1	4.0	Yes	Yes
		Nitrate/Nitrite	mg/L	0.34	0.33	Yes	Yes
Salem Formation	PZ-104-SD	Barium, Total	mg/L	0.795	0.230	Yes	Yes
		Chloride	mg/L	303	110	Yes	Yes
		Chromium, Total	mg/L	16.8	13.0	No	N/A
		Magnesium, Total	mg/L	65.6	58.0	No	N/A
		Nickel, Total	mg/L	0.0854	0.0600	No	N/A
		Sodium, Total	mg/L	207	34	Yes	Yes
		Specific Condutance, Field	umhos/cm	2,670	1,500	Yes	Yes
		Total Dissolved Solids	mg/L	1,140	780	Yes	Yes
		Total Organic Carbon	mg/L	84.2	32	Yes	Yes
	PZ-106-SD	Ammonia	mg/L	20.1	1.4	Yes	Yes
		Barium, Total	mg/L	0.304	0.10	Yes	Yes
		Magnesium, Total	mg/L	64.7	63.0	No	N/A
		Sodium, Total	mg/L	156.9	120.0	No	N/A
		Specific Conductance, Field	umhos/cm	1,569	1,200	Yes	No
		Total Dissolved Solids	mg/L	809	700	No	N/A

Note: Only confirmed prediction limit exceedances were tested for trends.
N/A: Denotes constituent will be evaulated for trends in the event the exceedance is confirmed.

Table 3
Organic Constituent Detections at PZ-114-AS - First Quarter 2018
Bridgeton Landfill, LLC
Bridgeton Landfill

Sampling Date	Constituent		
	Benzene	Chlorobenzene	p-Dichlorobenzene (1,4-Dichlorobenzene)
8/25/1997	<5.0	7	<5.0
11/10/1997	<5.0	5.1	<5.0
2/16/1998	<5.0	<5.0	<5.0
5/27/1998	<5.0	<5.0	<5.0
11/12/1998	<5.0	7.2	<5.0
5/19/1999	<5.0	<5.0	<5.0
11/19/1999	<5.0	<5.0	<5.0
5/23/2000	<5.0	<5.0	<5.0
11/13/2000	<5.0	<5.0	<5.0
5/15/2001	<5.0	7.70	<5.0
11/7/2001	<5.0	5.0	<5.0
5/21/2002	<5.0	130	<5.0
7/24/2002*	NA	150	NA
11/19/2002	<5.0	120	5.5
5/28/2003	<5.0	110	6.2
11/20/2003	6.1	120	14
5/11/2004	5.4	130	18
11/17/2004	<5.0	96	11
5/25/2005	<5.0	102	12.2
11/30/2005	<5.0	120	16
5/23/2006	<5.0	95	17
11/8/2006	<5.0	87	12
5/17/2007	<5.0	76	8.7
11/7/2007	<5.0	95	11
5/7/2008	<5.0	64	9.0
11/5/2008	<5.0	72	9.4
5/8/2009	<5.0	43	<5.0
11/4/2009	<5.0	19	<5.0
5/20/2010	<5.0	24	<5.0
11/11/2010	<5.0	64	7.0
5/11/2011	<5.0	17	<5.0
11/18/2011	<5.0	14	<5.0
5/10/2012	<5.0	9.6	<5.0
11/27/2012	<5.0	42	<5.0
4/8/2013	8.9	86	5.4
10/8/2013	<5.0	69	6.3
5/28/2014	6.7	68	6.5
9/23/2014	5.0	58	5.9
11/20/2014	<5.0	46.0	5.5
2/4/2015	<5.0	41.1	<5.0
5/13/2015	<5.0	34.0	<5.0
8/24/2015	<5.0	49.6	5.6
11/20/2015	9.1	67.9	7.1
3/9/2016	6.2	58.8	8.5
6/1/2016	6.7	65.7	8.7
9/6/2016	5.2	44.9	6.3
11/22/2016	<5.0	44.8	5.6
2/17/2017	<5.0	34.9	5.6
5/15/2017	5.0	40.9	<5.0
8/29/2017	23	92.7	5.6
11/13/2017	20	107	5.7
2/22/2018	19.3	102	6.4

Notes

All results are presented in units of ug/L.

Result above laboratory Reporting Limit (RL).

** Confirmation sampling event.*

NA: Not analyzed. Benzene and p-dichlorobenzene not detected during the previous event, and confirmation not required.

As described in an October 23, 2003 letter from the MDNR, organic constituent detections at well PZ-114-AS appear to be related to impacts from the upgradient PM Resources, Inc. property.

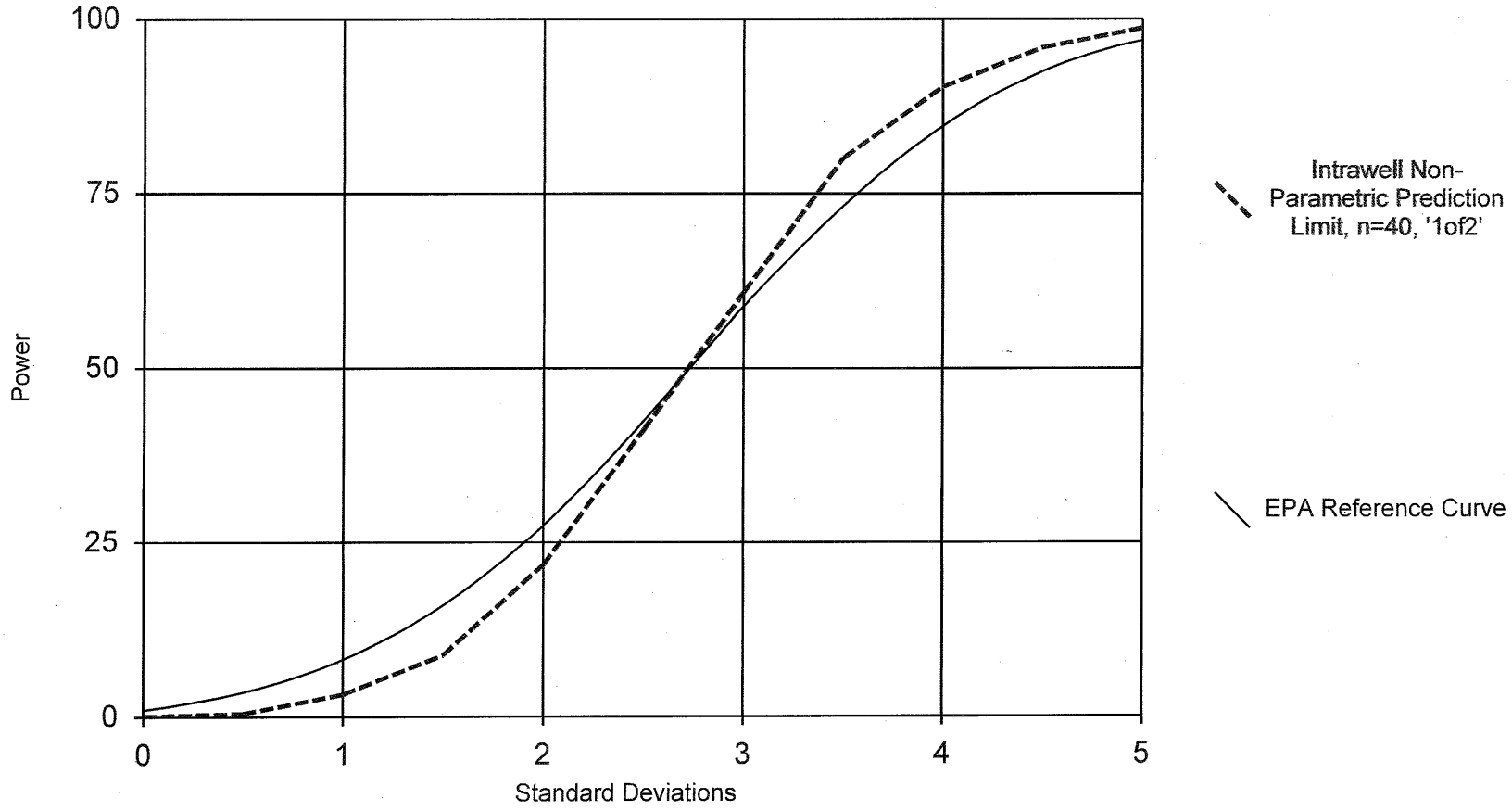
Table 4
Organic Constituent Detections at PZ-104-SS & PZ-104-SD - First Quarter 2018
Bridgeton Landfill, LLC
Bridgeton Landfill

Well	Date	124-Trimethylbenzene	12-Dichloroethane	14-Dichlorobenzene	1-Chlorobutane	2-Hexanone	Acetone	Aroclor 1221 (PCB-1221)	Benzene	Chloroethane	Ethylbenzene	Isopropylbenzene	m+p-Cresols	Methyl ethyl ketone (2-Butanone)	Methyl-iso-butyl ketone	Methyl-tert-butyl ether	p-Isopropyltoluene	Tetrahydrofuran	Toluene	Xylenes [Total]
104-SD	5/11/2012	n/a	<5	<5	n/a	<10	<10	n/a	57	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	5.5	<5
	11/27/2012	6.56	6.7	6	3.44	<10	<10	n/a	350	<10	11	1.36	n/a	<10	<10	4.4	12.2	617	140	31
	4/11/2013	n/a	24	<0.66	n/a	<3.1	59	n/a	1000	<0.8	24	n/a	n/a	37	<2.7	n/a	n/a	n/a	1800	58
	10/7/2013	n/a	<5	5.4	n/a	19	3000	n/a	920	<10	18	n/a	n/a	1900	47	n/a	n/a	n/a	250	42
	5/28/2014	n/a	<5	<5	n/a	<10	<10	n/a	1300	<10	20	n/a	n/a	<10	<10	n/a	n/a	n/a	73	46
	9/24/2014	<5	<5	<5	n/a	<10	11	<0.1	1200	<10	13	<10	21	<10	<10	<10	<10	63	34	25
	11/20/2014	<5	<5	<5	n/a	<10	<10	<0.1	820	<10	11	<5	<10	<10	<10	<5	<5	231	36.5	21
	2/3/2015	<5	<5	<5	n/a	<10	<10	<0.099	542	<10	10	<5	34	<10	<10	<5	<5	420	26.1	20.4
	5/13/2015	<5	<5	<5	<5	<10	<10	<0.2	672	<10	9.4	<5	20.4	<10	<10	<5	<5	301	25.1	22.7
	8/25/2015	n/a	<5	<5	<5	<10	109	n/a	564	<10	7.3	n/a	n/a	70.9	<10	n/a	n/a	n/a	84.3	22
	11/18/2015	<5	<5	<5	<5	<10	<10	<0.2	640	<10	5.4	<5	67.6	<10	<10	5.4	<5	1560	10.5	19.1
	3/1/2016	n/a	<5	<5	<50	<10	<10	n/a	426	<10	<5	n/a	<10	<10	<10	n/a	n/a	n/a	9.6	19.3
	6/3/2016	<5	<5	<5	<5	<10	<10	<0.2	554	<10	<5	<5	<10	<10	<10	5.2	<5	<1000	8.5	24.4
	8/24/2016	n/a	<5	8.9	n/a	<10	<10	n/a	451	<10	7.3	n/a	n/a	<10	<10	n/a	n/a	n/a	9.3	33.7
	11/9/2016	<25 / <5	<25 / <5	<25 / 6.5	<25 / <5	<50	<50 / <10	<0.2 / <0.2	592 / 564	<50	<25 / <5	<25 / <5	<10 / <10	<50 / <10	<50 / <10	<25 / 5.2	<25 / 9.9	2060E / 2030	<25 / 9.7	<25 / 26.8
	2/9/2017	n/a	<5	5.7	n/a	<10	<10	n/a	433	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	7.5	24.6
	5/8/2017	<5	<5	<5	<5	<10	<10	<0.2	400	<10	<5	<5	<10	<10	<10	<5	<5	1150	34.3	20.4
	8/30/2017	n/a	<5	<5	n/a	<10	<10	n/a	327	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	9.5	21.3
	11/13/2017	<5	<5	<5	<5	<10	<10	<0.2	320	<10	<5	<5	<10	<10	<10	<5	<5	956	<5	16.2
	2/26/2018	n/a	<5	<5	n/a	<10	<10	n/a	438	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	5	17.7
104-SS	5/11/2012	n/a	<5	<5	n/a	<10	<10	n/a	<5	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	<5	<5
	11/27/2012	n/a	20	8.2	n/a	<10	<10	n/a	1100	<10	18	n/a	n/a	<10	63	n/a	n/a	n/a	78	48
	4/11/2013	n/a	43	6.3	n/a	72	<4	n/a	2400	11	26	n/a	n/a	110	220	n/a	n/a	n/a	140	66
	10/9/2013	n/a	43	7.5	n/a	52	<10	n/a	2200	<10	35	n/a	n/a	<10	210	n/a	n/a	n/a	150	78
	5/28/2014	n/a	<5	6.8	n/a	<10	<10	n/a	1200	<10	24	n/a	n/a	<10	<10	n/a	n/a	n/a	87	59
	9/24/2014	6.3	<5	5.5	n/a	<10	<10	0.18	1500	<10	29	<10	<10	<10	<10	<10	10	2000	130	65
	11/20/2014	<5	<5	<5	n/a	<10	<10	<0.099	1280	<10	20.2	<5	<10	<10	<10	<5	<5	<100	106	47.7
	2/3/2015	5.5	<5	<5	n/a	<10	<10	<0.1	1020	<10	22.6	<5	<10	<10	<10	<5	5.5	<100	91.9	49.9
	5/14/2015	<5	<5	<5	<5	<10	<10	<0.2	935	<10	20.3	<5	<10.1	<10	<10	<5	<5	<100	71.3	32.8
	8/25/2015	n/a	<5	<5	<5	<10	<10	n/a	357	<10	13.2	n/a	n/a	<10	<10	n/a	n/a	n/a	14.7	21.2
	11/18/2015	<5	<5	<5	<5	<10	<10	<0.2	469	<10	8.7	<5	<10	<10	<10	<5	<5	<100	5.2	23.1
	3/1/2016	n/a	<5	<5	<5	<10	<10	n/a	8.3	<10	<5	n/a	<10	<10	<10	n/a	n/a	n/a	<5	15.4
	6/3/2016	<5	<5	5.8	<5	<10	<10	<0.2	44.1	<10	<5	<5	<10	<10	<10	<5	<5	<100	5.7	8.7
	8/24/2016	n/a	<5	9	n/a	<10	<10	n/a	221	<10	7.8	n/a	n/a	<10	<10	n/a	n/a	n/a	17.1	22.1
	11/10/2016	<5	<5	7.1	<5	<10	<10	<0.2	279	<10	5.9	<5	<10	<10	<10	8.6	12.3	<100	21	12.2
	2/9/2017	n/a	<5	6.3	n/a	<10	<10	n/a	302	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	31.7	12.7
	5/8/2017	<5	<5	<5	<5	<10	<10	<0.2	213	<10	<5	<5	<10	<10	<10	7.9	<5	<100	25.4	7.4
	8/30/2017	n/a	<5	5.4	n/a	<10	<10	n/a	33.9	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	18.3	5.3
	11/13/2017	<5	<5	<5	<5	<10	<10	<0.2	14.7	<10	<5	<5	<10	<10	<10	7.9	<5	<100	<5	<5
	2/26/2018	n/a	<5	<5	n/a	<10	<10	n/a	24.2	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	<5	<5

Notes:
All results are presented in units of ug/L.
Constituent detected above laboratory reporting limit.
n/a: Detection monitoring wells not analyzed for this constituent during routine detection monitoring events.
p-Cresol reported by laboratory as m+p-Cresols.

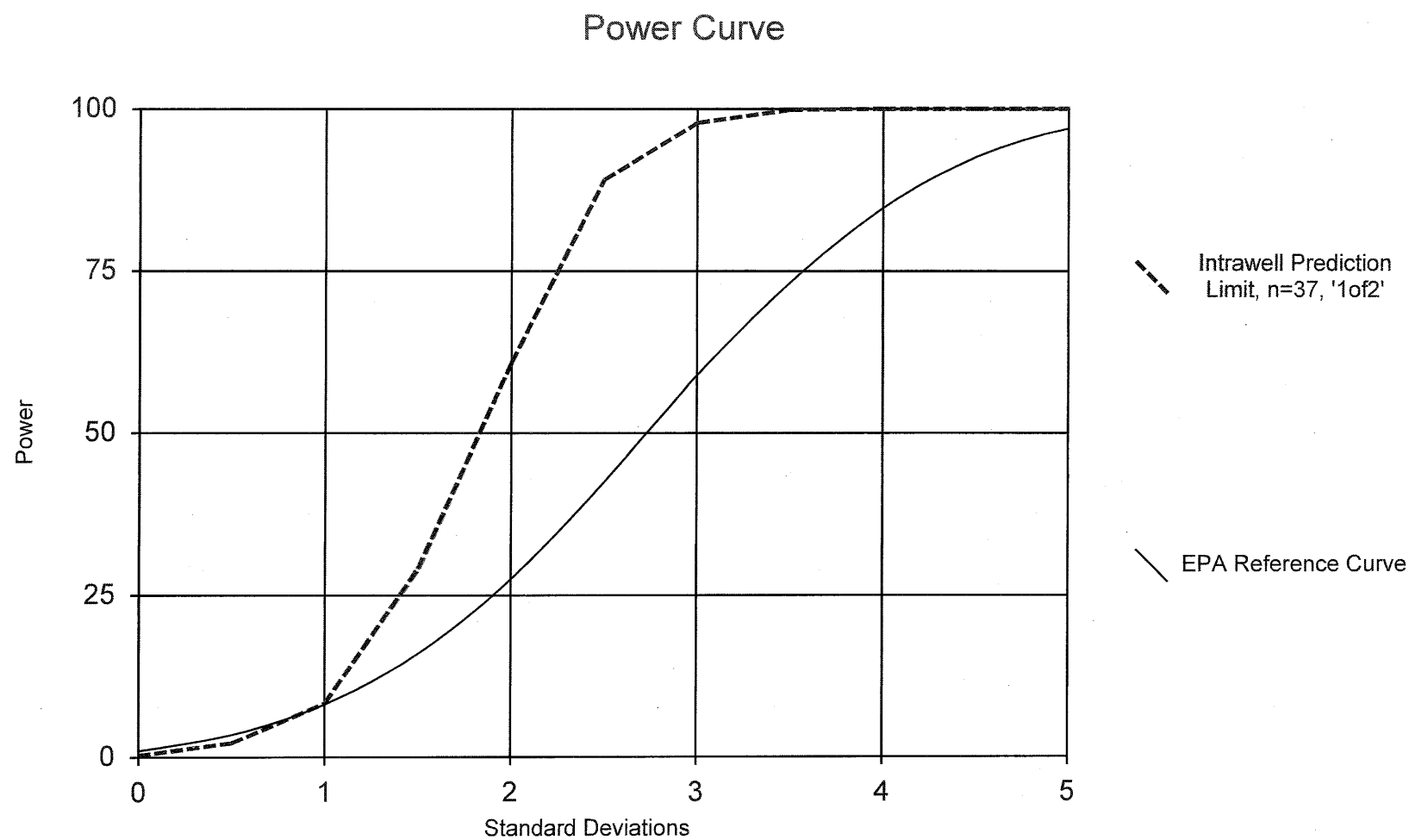
APPENDIX A
STATISTICAL POWER CURVES
&
DUPLICATE ANALYSIS COMPARISON

Power Curve



Analysis Run 1/7/2016 4:15 PM

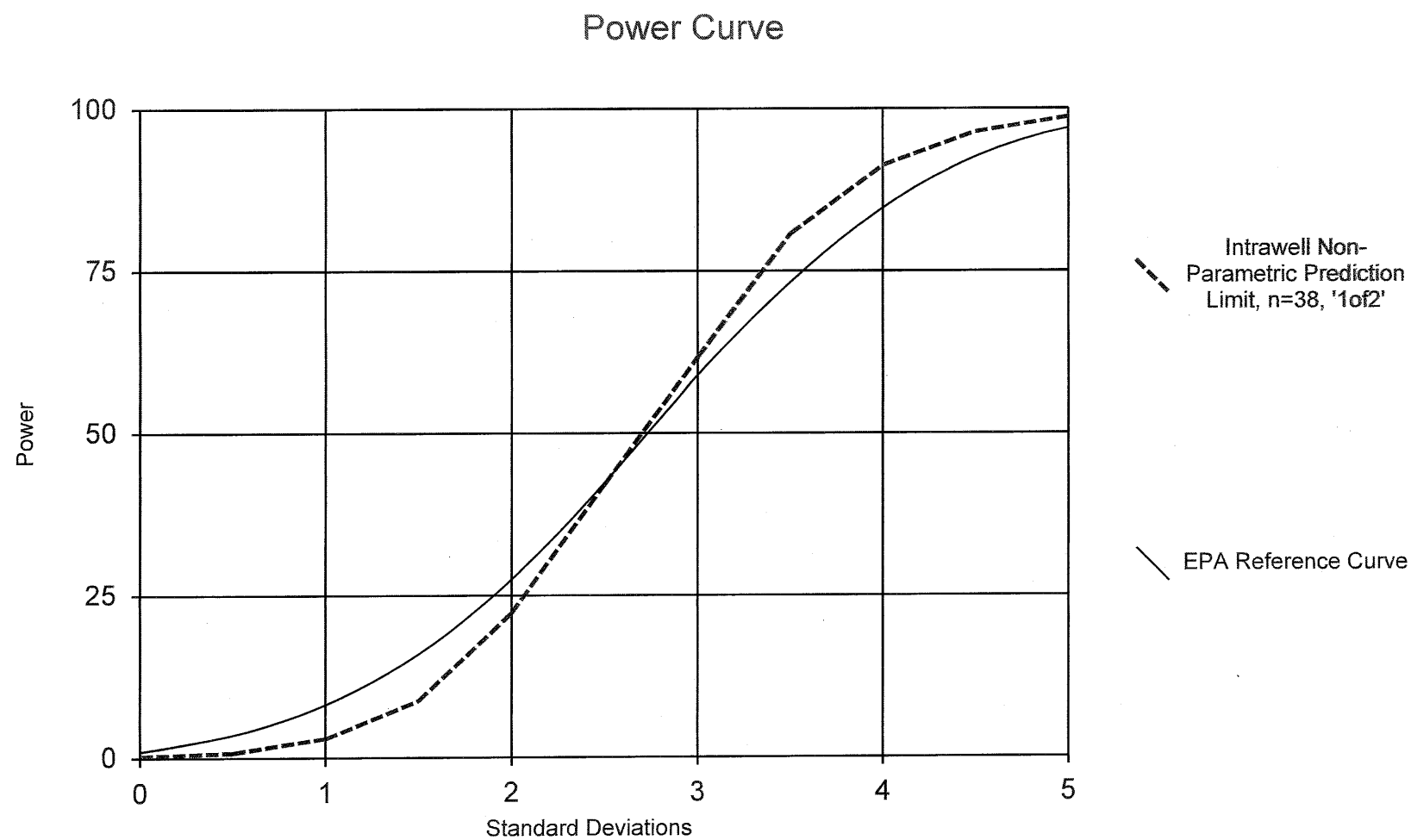
Bridgeton LF Client: RSI Data: BRIDGETON



Kappa = 2.092, based on 1 compliance well and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:15 PM

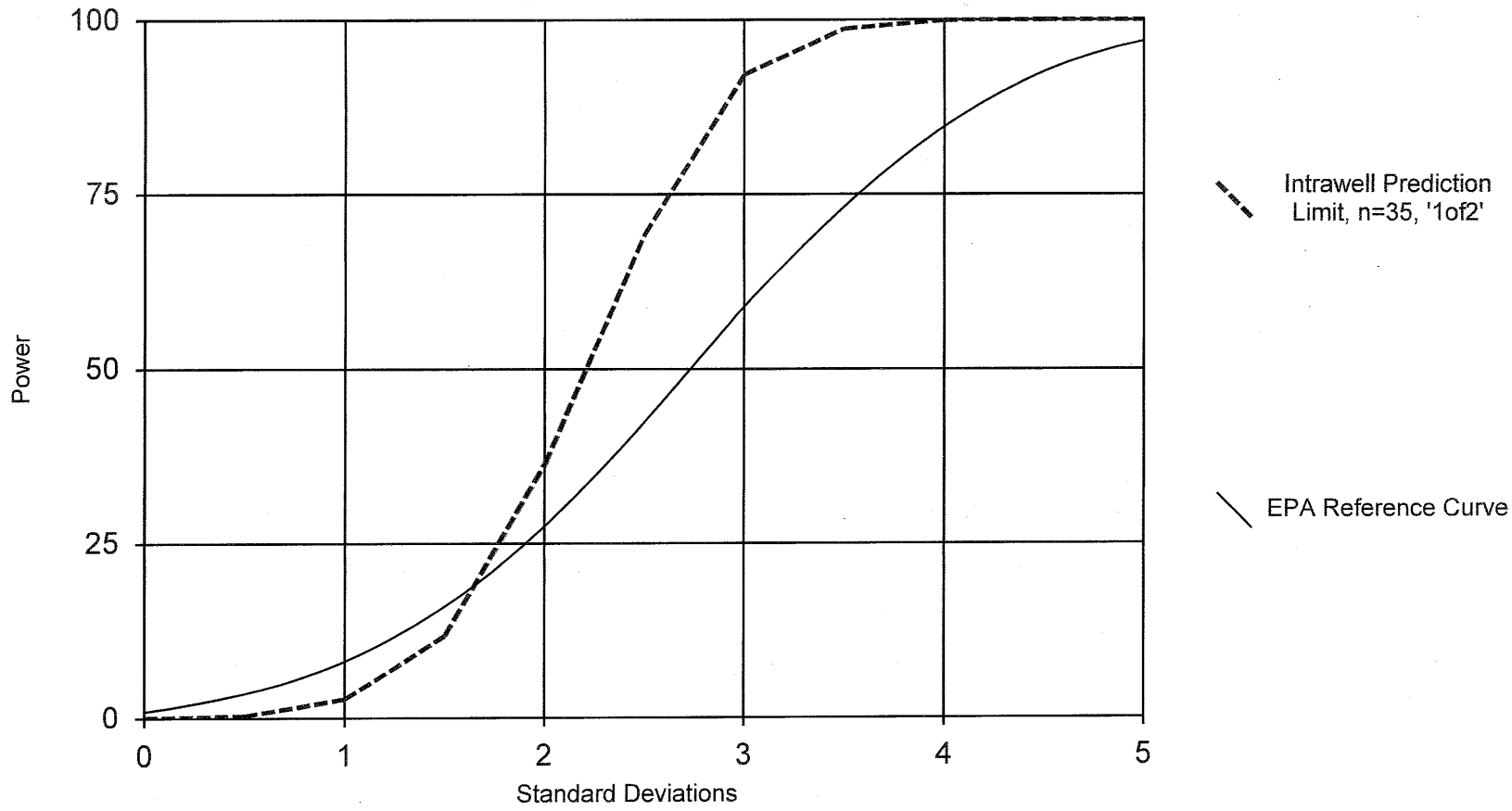
Bridgeton LF Client: RSI Data: BRIDGETON



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

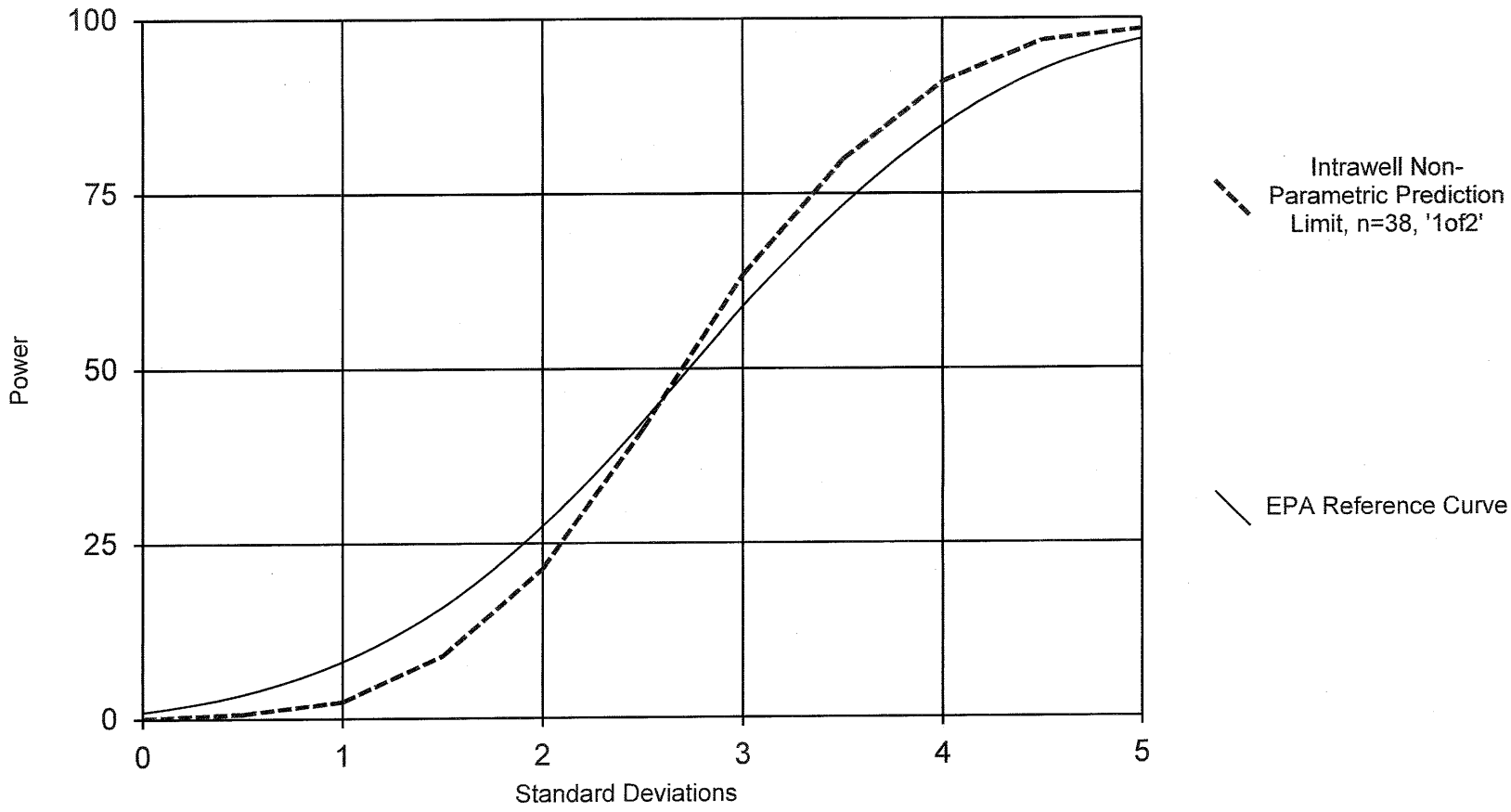


Kappa = 2.466, based on 4 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

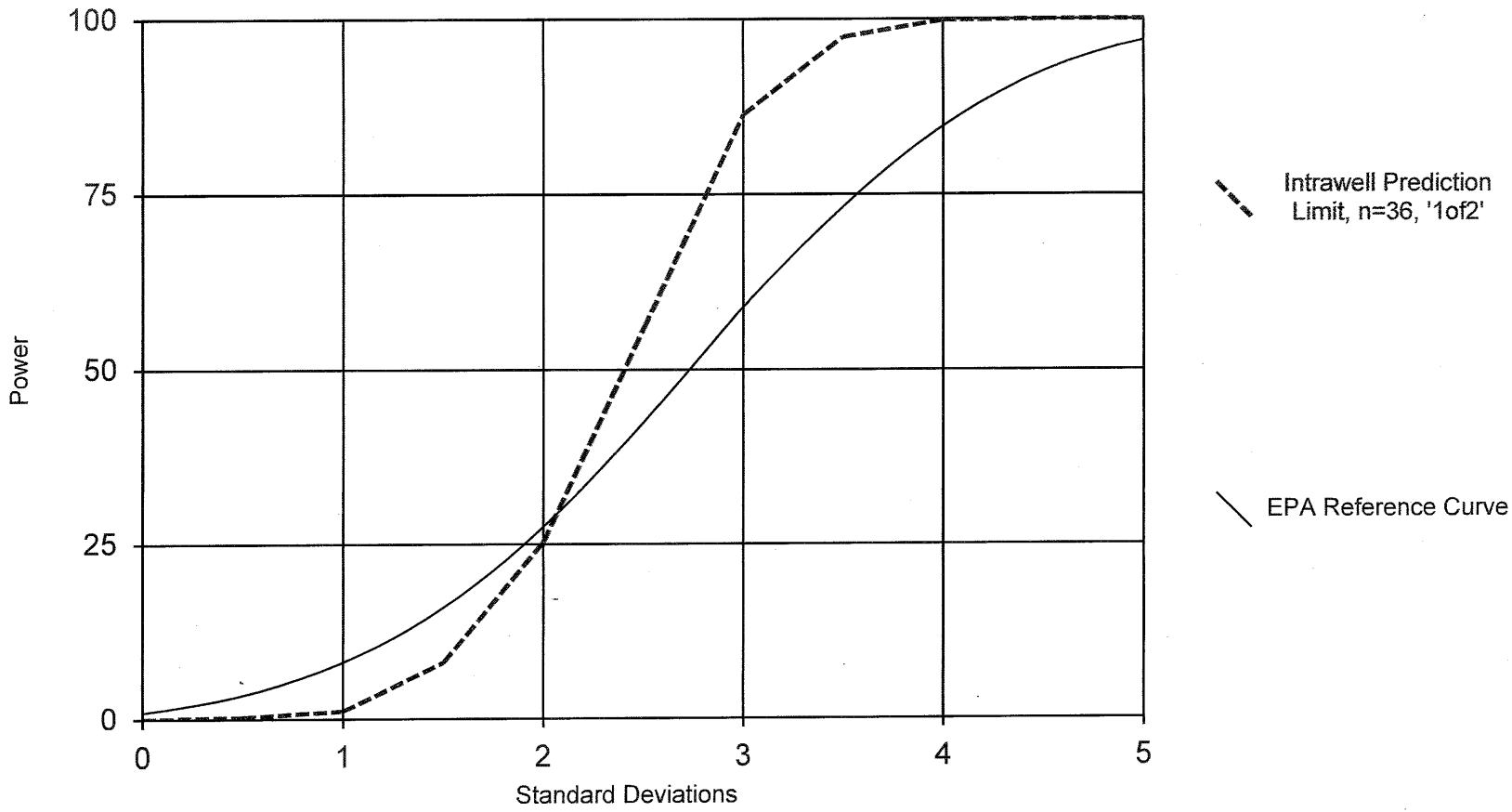
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve



Kappa = 2.654, based on 9 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Original Sample / Duplicate Sample Analysis Comparison

Facility: Bridgeton Landfill

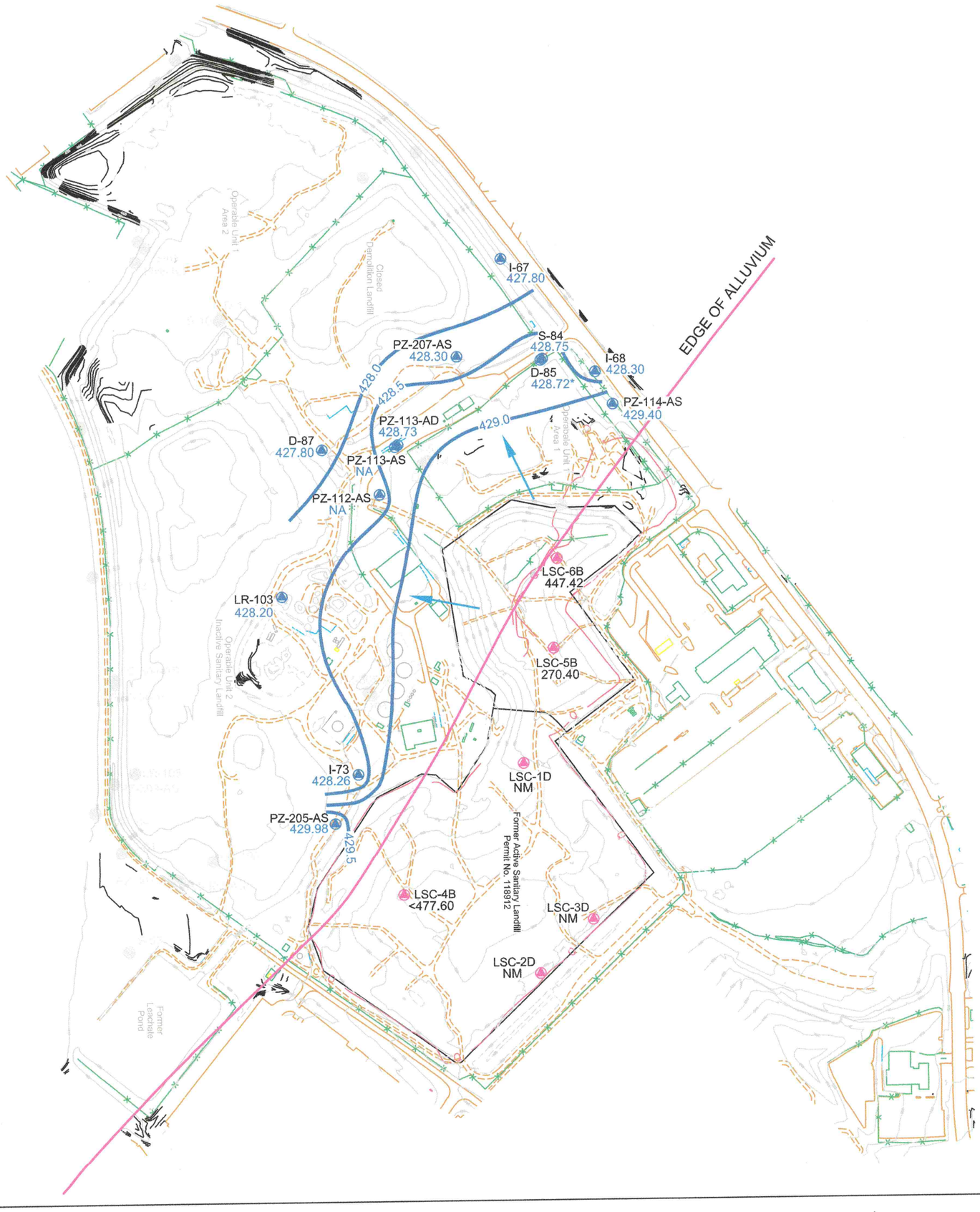
Monitoring Event: February-18

If both results are each greater than or equal to 5 times the Detection Limit, then
Control Limit = ± 20% Relative Percent Difference (RPD)
Where RPD = 100 * (Positive Difference in Concenrations) / (Average of Concentrations)
If either result is less than 5 times the Detection Limit, then
Control Limit = ± Detection Limit

Original / Duplicate Pair: PZ-104-SS / Duplicate

Detected Analyte	Units	Detection Limit	PZ-104-SS	Duplicate	Are both values greater than 5x Detection Limit? Y/N	If Yes, RPD (%)	If No, are both values within ± Detection Limit difference? Y/N
BARIUM, TOTAL	UG/L	10	102	103	Y	1.0%	N/A
BORON, TOTAL	UG/L	100	138	138	N	N/A	Y
CALCIUM, TOTAL	UG/L	500	79100	79500	Y	0.5%	N/A
CHEMICAL OXYGEN DEMAND, TOTAL	MG/L	10	15.2	17.2	N	N/A	Y
CHLORIDE	MG/L	25	4.4	4.4	N	N/A	Y
FLUORIDE	MG/L	0.1	0.83	0.83	Y	0.0%	N/A
IRON, TOTAL	UG/L	50	218	206	N	N/A	Y
MAGNESIUM, TOTAL	UG/L	500	47800	47900	Y	0.2%	N/A
MANGANESE, TOTAL	UG/L	5	25.4	25.6	Y	0.8%	N/A
SODIUM, TOTAL	UG/L	1000	14100	14300	Y	1.4%	N/A
SULFATE	MG/L	2.5	19.7	20.2	Y	2.5%	N/A
TOTAL DISSOLVED SOLIDS	MG/L	10	384	388	Y	1.0%	N/A
TOTAL HARDNESS BY 2340B	UG/L	1000	394000	396000	Y	0.5%	N/A
TOTAL ORGANIC CARBON	MG/L	10	2.5	2.5	N	N/A	Y
BENZENE	UG/L	5	24.2	21.7	N	N/A	Y

APPENDIX B
POTENTIOMETRIC SURFACE MAPS



WELL PREFIX/SUFFIX EXPLANATION

SS = ST. LOUIS UPPER SALEM UNIT
SD = DEEP SALEM UNIT
KS = KEOKUK UNIT
LCS = LEACHATE COLLECTION SUMP

AS = SHALLOW ALLUVIUM
AI = INTERMEDIATE ALLUVIUM
AD = DEEP ALLUVIUM
LR - LEACHATE RISER

Notes: Depth to water measurements collected on 2/14/18 by Feezor Engineering, Inc.
LCS measurements collected on 2/14/18 by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/1/17.

* Denotes D-85 not contoured in the well cluster, due to deeper installation.

Depth to water not available at PZ-112-AS due to an obstruction at 24.20 feet and PZ-113-AS due to dry at top of pump.

LEGEND

LEACHATE COLLECTION SUMP
GROUNDWATER MONITORING WELL
462.17 GROUNDWATER ELEVATION (FMSL)
429.0 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800
Scale in Feet
Graphic Scale: 1 inch = 400 feet

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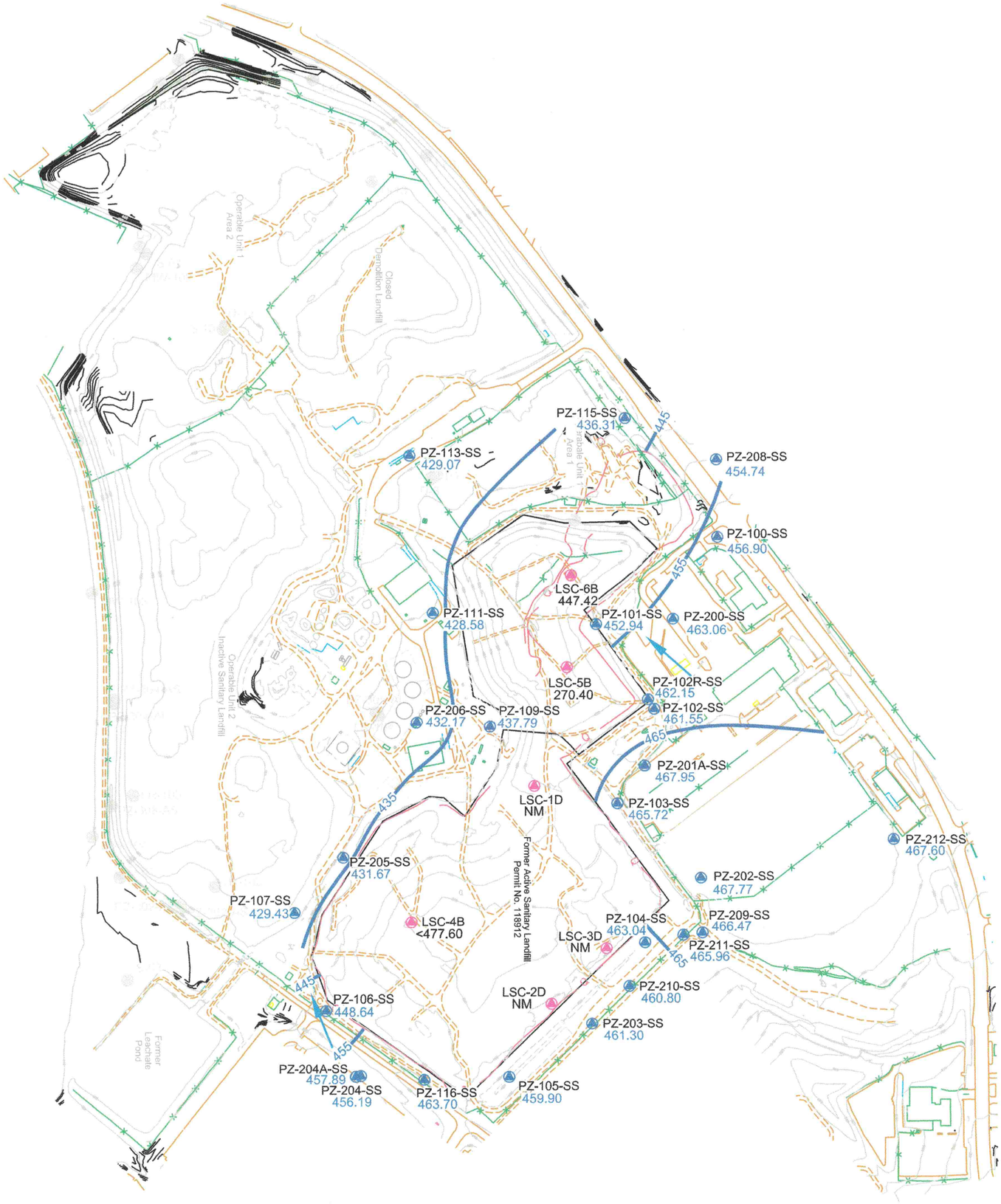
First Quarter 2018
Alluvial Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



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Aerial topography provided Cooper Aerial Surveys Co. dated 12/1/17.

LEGEND

LEACHATE COLLECTION SUMP
GROUNDWATER MONITORING WELL
462.17 GROUNDWATER ELEVATION (FMSL)
455 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800
Scale in Feet
Graphic Scale: 1 inch = 400 feet

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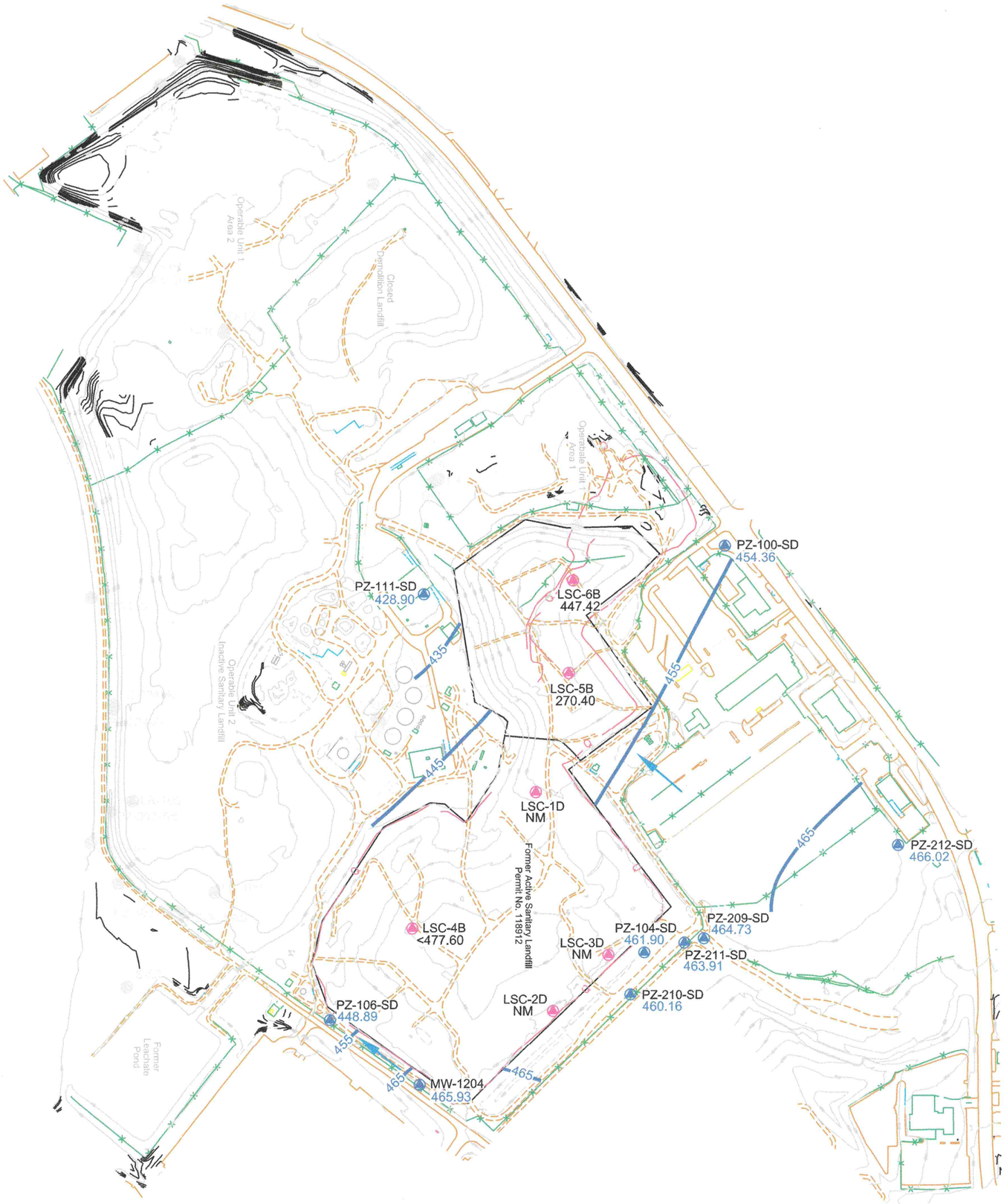
First Quarter 2018
St. Louis/Upper Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



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Notes: Depth to water measurements collected on 2/14/18 by Feezor Engineering, Inc.
LCS measurements collected on 2/14/18 by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/1/17.

LEGEND

LEACHATE COLLECTION SUMP
GROUNDWATER MONITORING WELL
462.17 GROUNDWATER ELEVATION (FMSL)
455 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800
Scale in Feet
Graphic Scale: 1 inch = 400 feet

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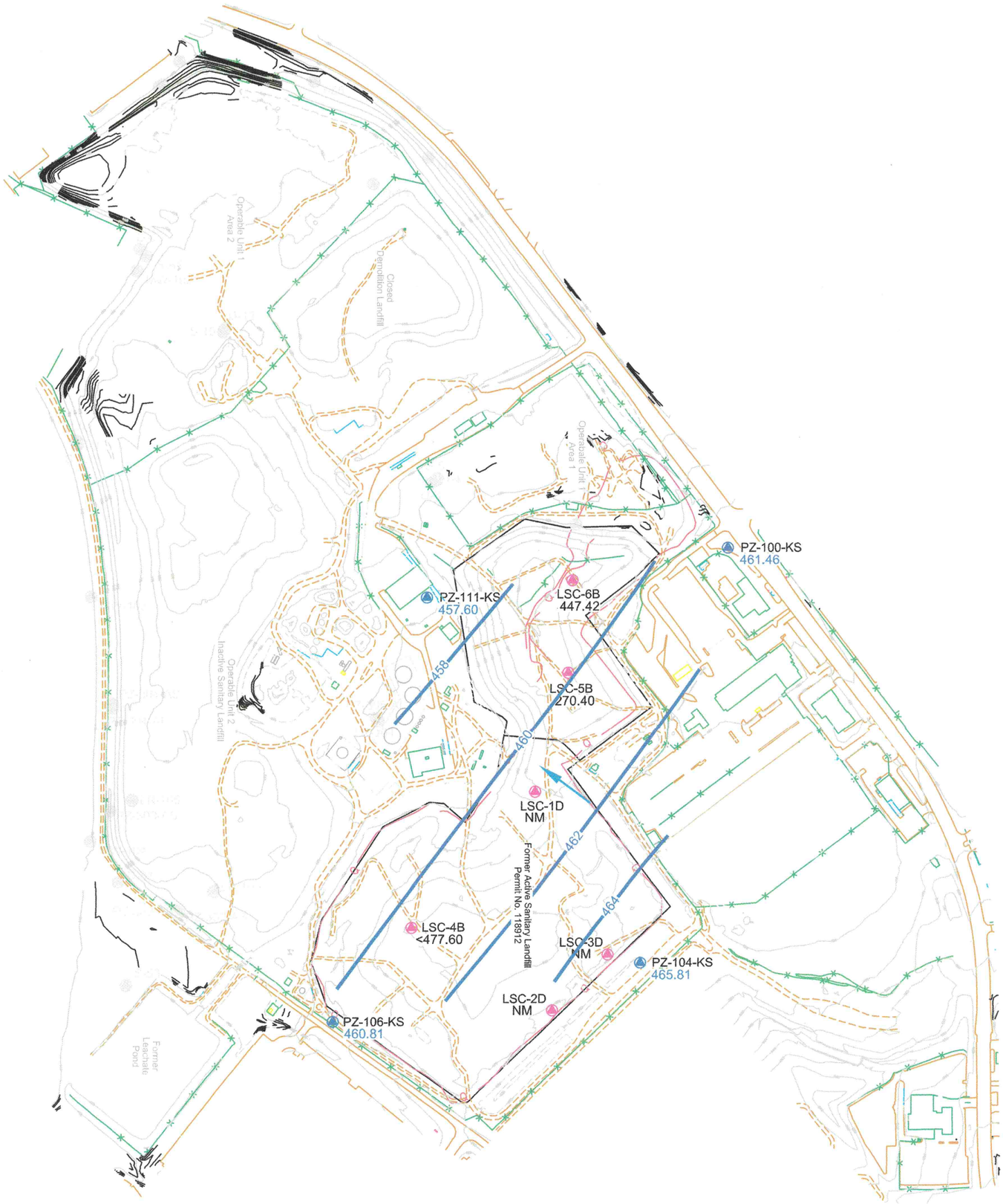
First Quarter 2018
Deep Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

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KS = KEOKUK UNIT
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AD = DEEP ALLUVIUM
LR - LEACHATE RISER

Notes: Depth to water measurements collected on 2/14/18 by Feezor Engineering, Inc.
LCS measurements collected on 2/14/18 by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/1/17.

LEGEND

LEACHATE COLLECTION SUMP
GROUNDWATER MONITORING WELL
462.17 GROUNDWATER ELEVATION (FMSL)
460 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800
Scale in Feet
Graphic Scale: 1 inch = 400 feet

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First Quarter 2018
Keokuk Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri

FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth May 2017 (ft)	Notes
D-85	2/14/2018	1340	28.95	26.44	N/A	76.41	top of pump = 62.54
D-87		0956	36.61	33.88	N/A	115.17	
I-67		1307	13.98	11.28	N/A	40.44	
I-68		1310	22.30	19.62	N/A	40.46	top of pump = 32.10
I-73		1130	33.70	31.01	N/A	50.57	Top of pump = 42.12
LR-103		1150	42.44	39.64	N/A	49.82	
MW-1204		1107	12.11	10.90	N/A	215.21	Top of pump = 60.30 TD is from Feb 2017
PZ-100-SS		1326	29.65	29.30	N/A	89.33 (Top of Pump)	
PZ-100-SD		1325	32.13	31.06	N/A	96.21 (Top of Pump)	
PZ-100-KS		1324	24.90	23.89	N/A	383.68	TD is from Nov 2016
PZ-101-SS		1007	40.14	38.83	N/A	157.11	Top of pump = 148.91
PZ-102-SS		1011	23.10	22.19	N/A	91.27	Top of pump = 82.93
PZ-102R-SS		1013	26.41	24.98	N/A	94.02	Top of pump = 85.80
PZ-103-SS		1018	18.49	16.15	N/A	149.65	Top of pump = 141.62
PZ-104-SS		1025	20.96	20.27	N/A	140.29 (Top of Pump)	
PZ-104-SD		1024	22.25	21.45	N/A	120.62 (Top of Pump)	
PZ-104-KS		1022	18.79	17.83	N/A	93.29 (Top of Pump)	
PZ-105-SS		1103	24.14	23.49	N/A	144.82 (Top of Pump)	
PZ-106-SS		1114	14.47	14.02	N/A	161.39 (Top of Pump)	
PZ-106-SD		1113	14.95	14.52	N/A	196.45 (Top of Pump)	
PZ-106-KS		1112	3.92	3.00	N/A	375.00	TD is from Nov 2016
PZ-107-SS		1117	35.98	33.19	N/A	103.67	Top of pump = 95.40
PZ-109-SS		1141	22.40	20.89	N/A	130.98 (Top of Pump)	
PZ-111-SS		1144	36.05	33.40	N/A	111.43 (Top of Pump)	
PZ-111-SD		1145	37.67	35.27	N/A	197.08 (Top of Pump)	
PZ-111-KS		1146	8.20	7.33	N/A	374.61	TD is from Nov 2016
PZ-112-AS		1001	>24.20 ft	31.57	N/A	38.45	Obstruction @ 24.20 ft
PZ-113-AD		1257	53.51	30.84	N/A	109.95	top of pump = 101.80
PZ-113-AS	2/14/2018	~~1257~~ 1259	~~53.51~~ >32.80	30.10	N/A	39.22	top of pump = 32.80

No water detected above top of pump.

* unable to sink probe tip past blockage @24.20 ft TOC.

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FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth May 2017 (ft)	Notes
PZ-113-SS	2/14/2018	1254	33.59	30.96	N/A	160.28	top of pump = 152.00
PZ-114-AS		1314	22.74	20.15	N/A	26.04 (Top of Pump)	
PZ-115-SS		1313	16.59	15.07	N/A	81.03 (Top of Pump)	
PZ-116-SS		1106	14.51	13.65	N/A	142.87 (Top of Pump)	
PZ-200-SS		1329	23.17	22.30	N/A	99.35	Labeled as GMP-7
PZ-201A-SS		1332	14.38	12.59	N/A	86.28 (Top of Pump)	
PZ-202-SS		1041	14.05	13.04	N/A	85.19 (Top of Pump)	
PZ-203-SS		1059	25.89	24.98	N/A	111.29	Top of pump = 76.33
PZ-204-SS		1123	9.09	8.72	N/A	87.98	
PZ-204A-SS		1124	5.20	5.17	N/A	84.74	Top of pump = 45.75
PZ-205-AS		1133	34.79	32.60	N/A	53.85	Top of pump = 45.60
PZ-205-SS		1132	33.51	30.95	N/A	93.00 (Top of Pump)	Top of Pump is from Aug 2017
PZ-206-SS		1348	31.25	29.09	N/A	129.85	
PZ-207-AS		1302	34.35	31.58	N/A	38.94	top of pump = 35.85
PZ-208-SS		1336	20.45	19.98	N/A	100.35	
PZ-209-SS		1038	23.21	22.19	N/A	99.89 (Top of Pump)	
PZ-209-SD		1037	24.85	23.93	N/A	101.40 (Top of Pump)	
PZ-210-SS		1057	26.10	25.42	N/A	101.46 (Top of Pump)	
PZ-210-SD		1056	26.84	26.12	N/A	101.60 (Top of Pump)	
PZ-211-SS		1054	21.45	20.53	N/A	98.12 (Top of Pump)	
PZ-211-SD		1053	23.55	23.65	N/A	99.02 (Top of Pump)	
PZ-212-SS		1049	15.19	14.80	N/A	93.89 (Top of Pump)	
PZ-212-SD		1048	16.70	15.64	N/A	92.76 (Top of Pump)	
S-84	2/14/2018	1342	28.70	26.16	N/A	32.71	Top of pump = 29.70

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Groundwater Elevation Summary Table
Bridgeton Landfill, LLC

Well	Top of PVC Casing Elevation[1] (fmsl)	Depth to Water[2] (ft)	Groundwater Elevation (fmsl)
Alluvial Zone			
D-85	457.67	28.95	428.72
D-87*	464.41	36.61	427.80
I-67*	441.78	13.98	427.80
I-68	450.60	22.30	428.30
I-73	461.96	33.70	428.26
LR-103	470.64	42.44	428.20
PZ-112-AS	462.53	>24.20	Obstruction at 24.20
PZ-113-AD	462.24	33.51	428.73
PZ-113-AS	462.19	>32.80	Top of Pump Dry
PZ-114-AS	452.14	22.74	429.40
PZ-205-AS	464.77	34.79	429.98
PZ-207-AS	462.65	34.35	428.30
S-84	457.45	28.70	428.75
St. Louis / Upper Salem Zone			
PZ-100-SS	486.55	29.65	456.90
PZ-101-SS	493.08	40.14	452.94
PZ-102R-SS	488.56	26.41	462.15
PZ-102-SS	484.65	23.10	461.55
PZ-103-SS	484.21	18.49	465.72
PZ-104-SS	484.00	20.96	463.04
PZ-105-SS	484.04	24.14	459.90
PZ-106-SS	463.11	14.47	448.64
PZ-107-SS	465.41	35.98	429.43
PZ-109-SS	460.19	22.40	437.79
PZ-111-SS	464.63	36.05	428.58
PZ-113-SS	462.66	33.59	429.07
PZ-115-SS	452.90	16.59	436.31
PZ-116-SS	478.21	14.51	463.70
PZ-200-SS	486.23	23.17	463.06
PZ-201A-SS	482.33	14.38	467.95
PZ-202-SS	481.82	14.05	467.77
PZ-203-SS	487.19	25.89	461.30
PZ-204A-SS	463.09	5.20	457.89
PZ-204-SS	465.28	9.09	456.19
PZ-205-SS	465.18	33.51	431.67
PZ-206-SS	463.42	31.25	432.17
PZ-208-SS	475.19	20.45	454.74
PZ-209-SS	489.68	23.21	466.47
PZ-210-SS	486.90	26.10	460.80
PZ-211-SS	487.41	21.45	465.96
PZ-212-SS	482.79	15.19	467.60
Deep Salem Zone			
MW-1204	478.04	12.11	465.93
PZ-100-SD	486.49	32.13	454.36
PZ-104-SD	484.15	22.25	461.90
PZ-106-SD	463.84	14.95	448.89
PZ-111-SD	466.57	37.67	428.90
PZ-209-SD	489.58	24.85	464.73
PZ-210-SD	487.00	26.84	460.16
PZ-211-SD	487.46	23.55	463.91
PZ-212-SD	482.72	16.70	466.02
Keokuk Zone			
PZ-100-KS	486.36	24.90	461.46
PZ-104-KS	484.60	18.79	465.81
PZ-106-KS	464.73	3.92	460.81
PZ-111-KS	465.80	8.20	457.60

Notes:

1 - Top of PVC casing elevations are from surveys on 8/13, 8/21-22, 8/29, 8/31/2012; 10/21-10/22/2013; 9/15/2014; 11/12/2014; 4/7/2016; 9/18/2016; 1/30/2017; and 9/6/17.

2 - Depth to water measurements recorded by Feezor Engineering, Inc. on 2/14/2018.

** - Top of PVC casing elevations from Groundwater Monitoring Report, October 2013 Event, West Lake Landfill Operable Unit 1, dated February 21, 2014 by Engineering Management Support Inc.*

Leachate Elevation Summary Table
Bridgeton Landfill, LLC

Sumps Where Depth to Leachate from Surface is Measured					
Leachate Collection Sump	Ground Surface Elevation[1] (fmsl)	Total Depth of Sump[1] (ft)	Depth to Leachate (ft)	Height of Leachate Above Base of Sump (ft)	Elevation of Leachate (fmsl)
LCS-1D	499.22	247.00	NM[4]	NM[4]	NM[4]
LCS-3D	----[3]	140.00	23.60	116.40	NM[3]
LCS-4B	551.60	256.60	> 74.00[2]	< 182.60[2]	< 477.60[2]

Sumps Where Height of Leachate Above Transducer is Measured					
Leachate Collection Sump	Elevation of Base of Sump[1] (fmsl)	Height of Transducer Above Base of Sump (ft)	Height of Leachate Above Transducer (ft)	Height of Leachate Above Base of Sump (ft)	Elevation of Leachate (fmsl)
LCS-2D	235.92	14.40	NM[4]	NM[4]	NM[4]
LCS-5B	235.30	21.90	13.20	35.10	270.40
LCS-6B	429.52	9.40	8.50	17.90	447.42

Notes:
Depths and heights of leachate recorded by Bridgeton Landfill personnel on 2/14/18.
1 - Ground surface elevations, sump total depths, and base of sump elevations are from as-built diagrams unless otherwise noted: LCS-1D - Aquaterra, 10/7/2009; LCS-2D - Aquaterra, 12/19/2008; LCS-4B - Aquaterra, 1/22/2010; LCS-5A - Aquaterra, 11/21/2005; LCS-6B - Aquaterra, 1/4/2010.
2 - Depth to leachate at LCS-4B was greater than the transducer during 2/14/18 event. Exact depths and elevations not available.
3 - LCS-3D not surveyed. As-built not available. Total depth provided by Bridgeton landfill, LLC.
4 - The transducer at LCS-1D and LCS-2D was not operational during the 10/31/17 event. Scheduled for maintenance.

APPENDIX C
STATISTICAL EVALUATIONS
ALLUVIAL ZONE

TREND EVALUATION OF BACKGROUND DATA

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Ammonia as N (mg/L)	**114-AS (bg)**	**0.1801**	**228**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Antimony Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	**114-AS (bg)**	**8.736**	**461**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	114-AS (bg)	-5.956	-105	-201	No	40	0	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	114-AS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	114-AS (bg)	1.752	97	201	No	40	0	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	114-AS (bg)	0	-23	-201	No	40	92.5	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**114-AS (bg)**	**-5729**	**-357**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	114-AS (bg)	1.213	105	201	No	40	7.5	n/a	n/a	0.02	NP
Chloride (mg/L)	114-AS (bg)	0.3415	24	201	No	40	0	n/a	n/a	0.02	NP
Chromium Total (ug/L)	114-AS (bg)	0	-26	-201	No	40	97.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	**114-AS (bg)**	**-0.5659**	**-257**	**-201**	**Yes**	**40**	**37.5**	**n/a**	**n/a**	**0.02**	**NP**
Copper Total (ug/L)	114-AS (bg)	0	-63	-201	No	40	87.5	n/a	n/a	0.02	NP
Fluoride (mg/L)	114-AS (bg)	-0.00...	-78	-186	No	38	18.42	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**114-AS (bg)**	**-21.28**	**-349**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	**114-AS (bg)**	**4003**	**315**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Lead Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	97.5	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**114-AS (bg)**	**-1865**	**-374**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**114-AS (bg)**	**-200.1**	**-316**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Mercury Total (ug/L)	114-AS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	114-AS (bg)	0	-18	-201	No	40	62.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	114-AS (bg)	0	-70	-201	No	40	82.5	n/a	n/a	0.02	NP
pH [Field] (su)	114-AS (bg)	0.009101	132	201	No	40	0	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**114-AS (bg)**	**0.09466**	**401**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Selenium Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Sodium Total (ug/L)	114-AS (bg)	-1530	-101	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	114-AS (bg)	-24.95	-118	-201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**114-AS (bg)**	**-1.916**	**-459**	**-201**	**Yes**	**40**	**37.5**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**114-AS (bg)**	**-0.08238**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**114-AS (bg)**	**-21.33**	**-230**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	114-AS (bg)	0.2132	83	201	No	40	10	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	114-AS (bg)	0	30	201	No	40	95	n/a	n/a	0.02	NP
Zinc Total (ug/L)	114-AS (bg)	0	-135	-201	No	40	90	n/a	n/a	0.02	NP

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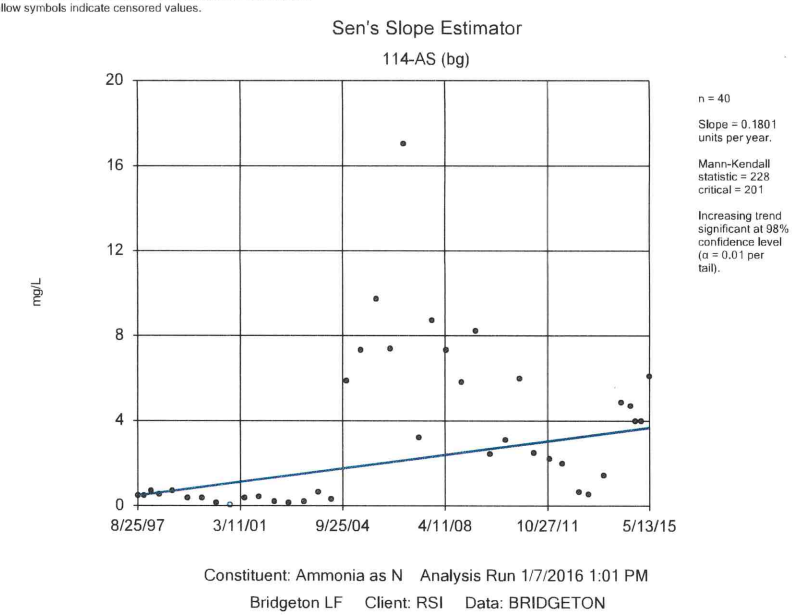
Hollow symbols indicate censored values.



Constituent: Ammonia as N Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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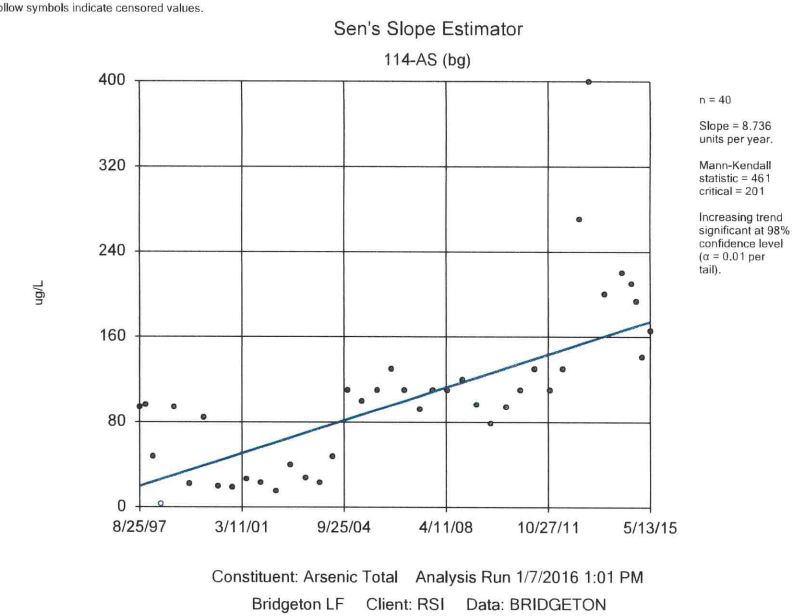
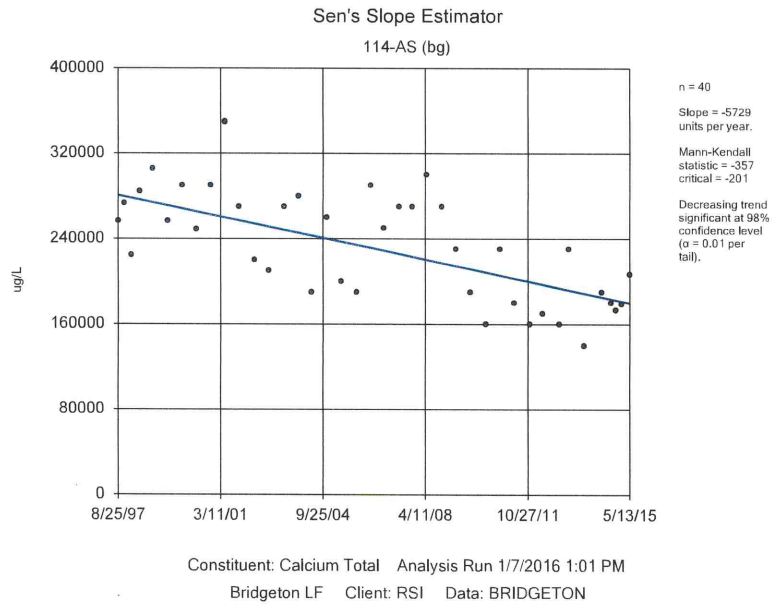
Hollow symbols indicate censored values.



Constituent: Arsenic Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



Constituent: Calcium Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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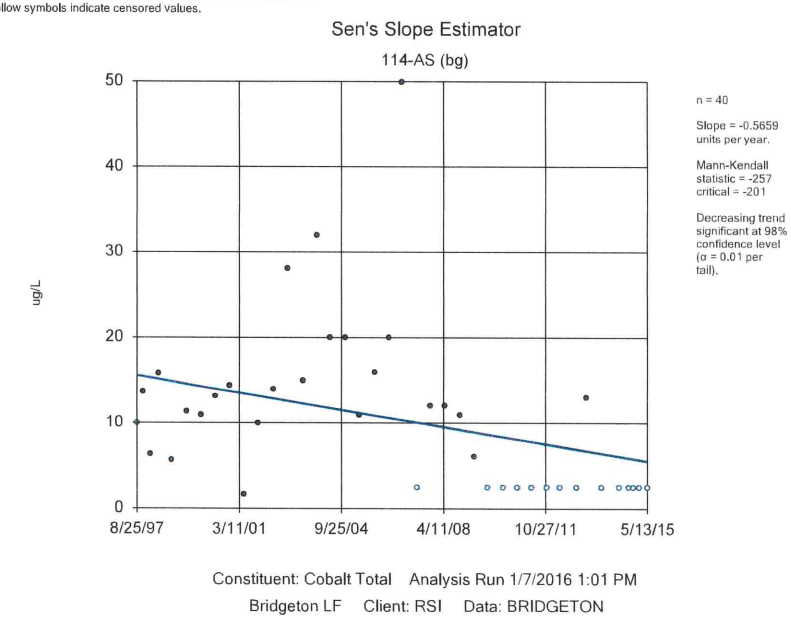
Hollow symbols indicate censored values.



Constituent: Cobalt Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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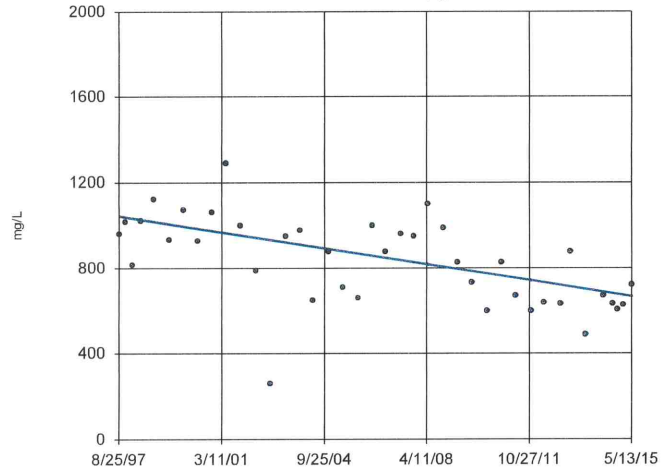
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -21.28 units per year.

Mann-Kendall statistic = -349 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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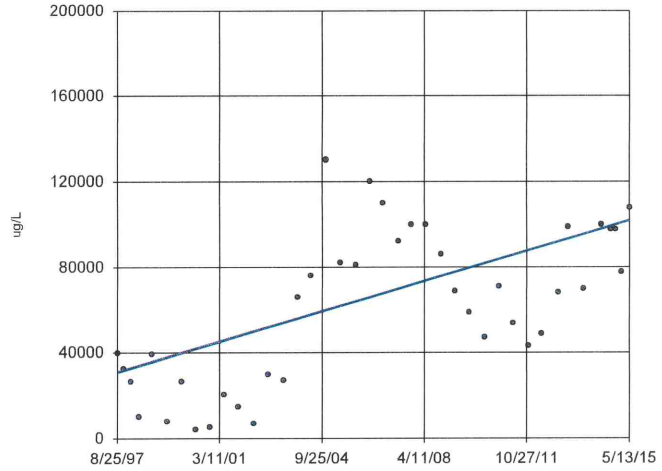
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 4003 units per year.

Mann-Kendall statistic = 315 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Iron Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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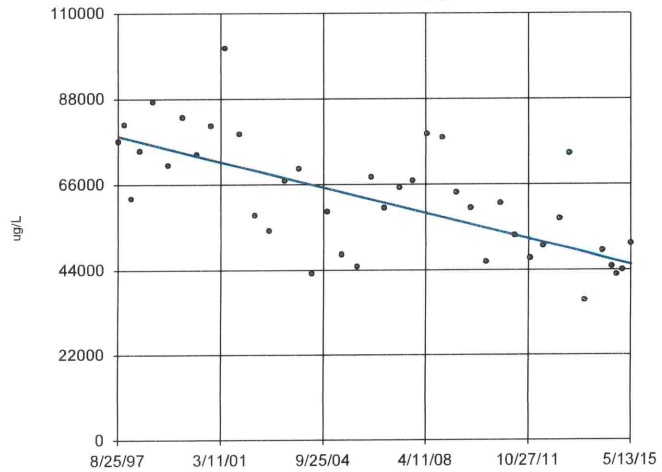
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -1865 units per year.

Mann-Kendall statistic = -374 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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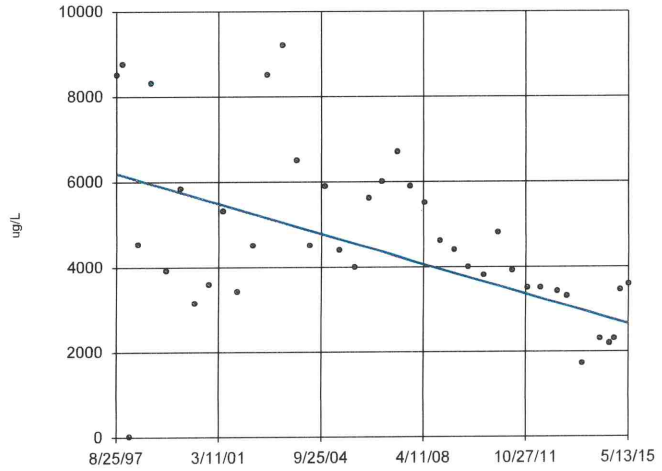
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -200.1 units per year.

Mann-Kendall statistic = -316 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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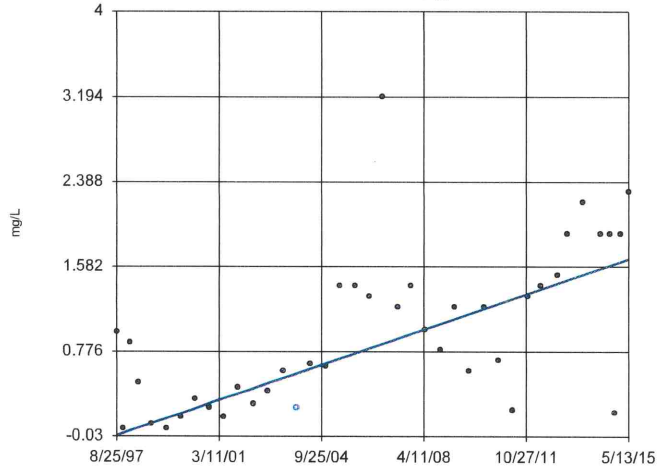
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 0.09466 units per year.

Mann-Kendall statistic = 401 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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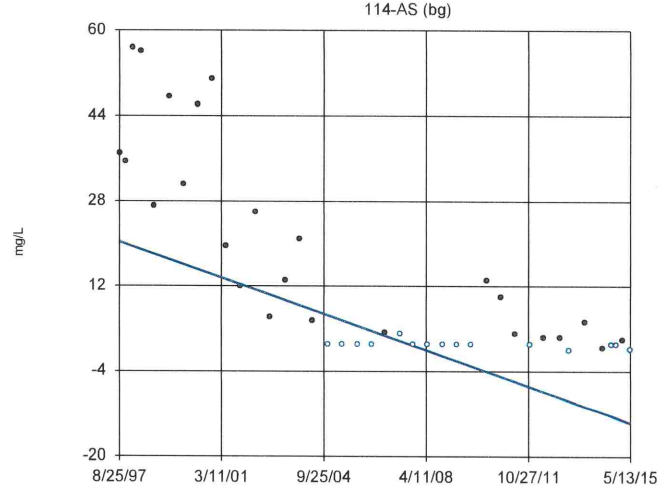
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -1.916 units per year.

Mann-Kendall statistic = -459 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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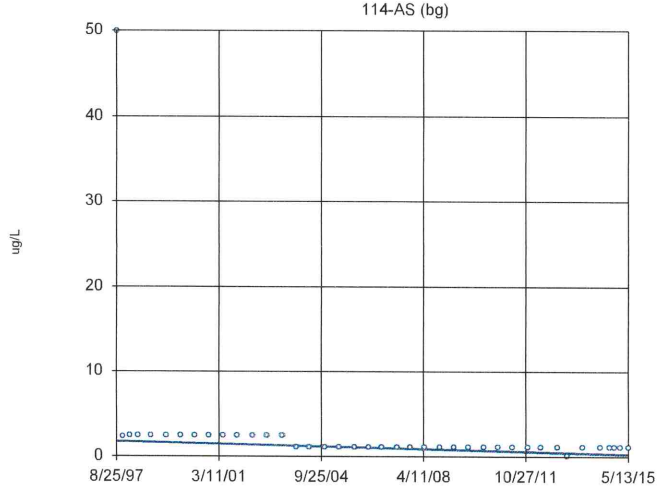
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -0.08238 units per year.

Mann-Kendall statistic = -378 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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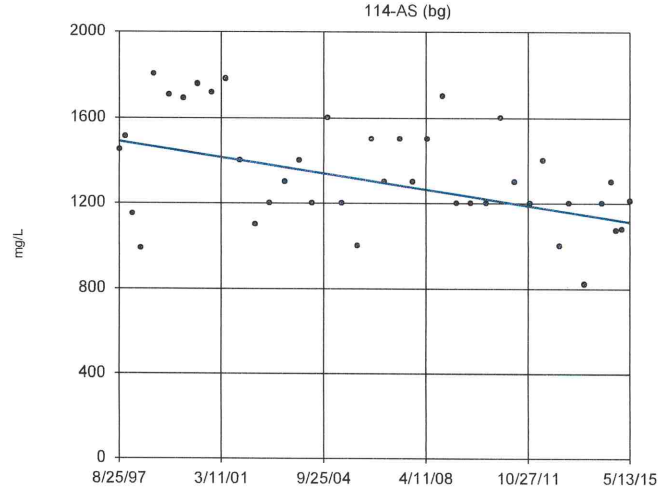
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -21.33 units per year.

Mann-Kendall statistic = -230 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

INTRA-WELL PREDICTION LIMITS

Background data were evaluated for increasing statistical trends (or either increasing or decreasing trends for field pH). In those cases where the background data were determined to exhibit a statistical trend, typically the most recent background data were excluded until the data no longer exhibited a statistical trend. For each of the constituent-well pairs listed below, the specified modified background data period was utilized in the determination of the intra-well prediction limit.

Alluvial Zone

- Ammonia as N at PZ-114-AS (8/97 through 9/14)
- Arsenic (Total) at PZ-114-AS (8/97 through 11/07)
- Iron (Total) at PZ-114-AS (8/97 through 5/06)
- Phosphorus (Total) at PZ-114-AS (8/97 through 11/05)

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/17/2018, 7:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony Total (ug/L)	114-AS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	**114-AS**	**1100**	**n/a**	**2/22/2018**	**1210**	**Yes**	**40**	**6.583**	**0.2171**	**0**	**None**	**ln(x)**	**0.0007744**	**Param Intra 1 of 2**
Beryllium Total (ug/L)	114-AS	2.0	n/a	2/22/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	114-AS	660	n/a	2/22/2018	268	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Cadmium Total (ug/L)	114-AS	5.9	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	114-AS	340000	n/a	2/22/2018	214000	No	40	232475	50510	0	None	No	0.0007744	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	114-AS	250	n/a	2/22/2018	41.5	No	40	3.906	1.151	7.5	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Chloride (mg/L)	114-AS	600	n/a	2/22/2018	325	No	40	18.41	2.965	0	None	sqrt(x)	0.0007744	Param Intra 1 of 2
Chromium Total (ug/L)	114-AS	5.4	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	114-AS	50	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	37.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Copper Total (ug/L)	114-AS	110	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	114-AS	0.45	n/a	2/22/2018	0.16	No	25	0.2589	0.08723	8	None	No	0.0007744	Param Intra 1 of 2
Hardness Total (mg/L)	114-AS	1300	n/a	2/22/2018	806	No	40	828.3	205.5	0	None	No	0.0007744	Param Intra 1 of 2
Lead Total (ug/L)	114-AS	25	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	114-AS	98000	n/a	2/22/2018	65900	No	40	39.5	3.161	0	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Manganese Total (ug/L)	114-AS	10000	n/a	2/22/2018	2680	No	39	8.401	0.3974	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Mercury Total (ug/L)	114-AS	0.20	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	114-AS	84	n/a	2/22/2018	5ND	No	40	n/a	n/a	62.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	114-AS	5.0	n/a	2/22/2018	0.05ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
pH [Field] (su)	114-AS	7	6.2	2/22/2018	6.64	No	37	1.888	0.02947	0	None	ln(x)	0.0003872	Param Intra 1 of 2
Selenium Total (ug/L)	114-AS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	114-AS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	114-AS	330000	n/a	2/22/2018	122000	No	40	12.09	0.2948	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	114-AS	3400	n/a	2/22/2018	2390	No	39	2313	528.9	0	None	No	0.0007744	Param Intra 1 of 2
Sulfate (mg/L)	114-AS	57	n/a	2/22/2018	0.125ND	No	40	n/a	n/a	37.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Thallium Total (ug/L)	114-AS	2.0	n/a	2/22/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	114-AS	2000	n/a	2/22/2018	1310	No	40	7.186	0.1882	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	114-AS	44	n/a	2/22/2018	12.2	No	40	2.244	0.6242	10	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Vanadium Total (ug/L)	114-AS	12	n/a	2/22/2018	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	114-AS	48	n/a	2/22/2018	10ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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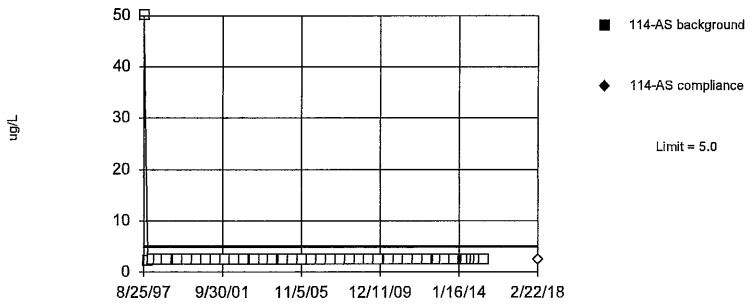
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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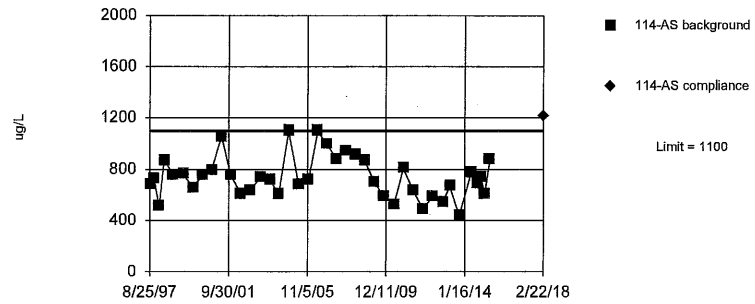
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.583, Std. Dev.=0.2171, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9819, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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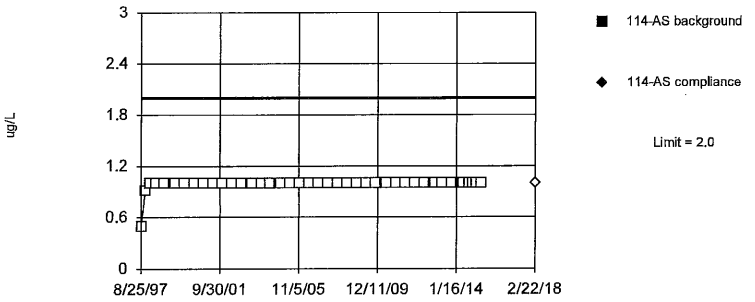
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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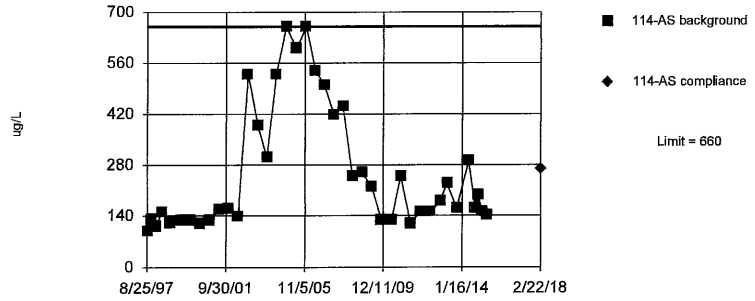
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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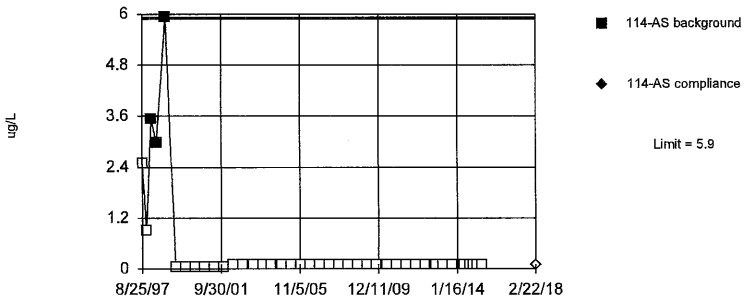
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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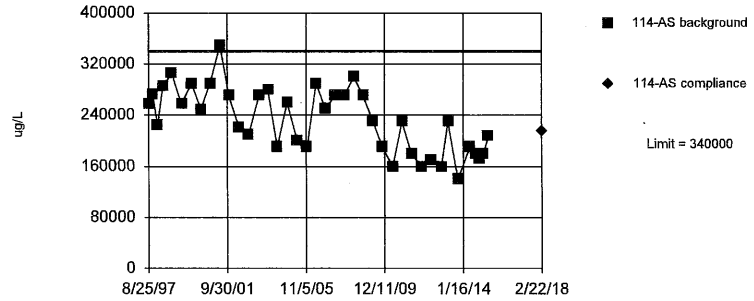
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=232475, Std. Dev.=50510, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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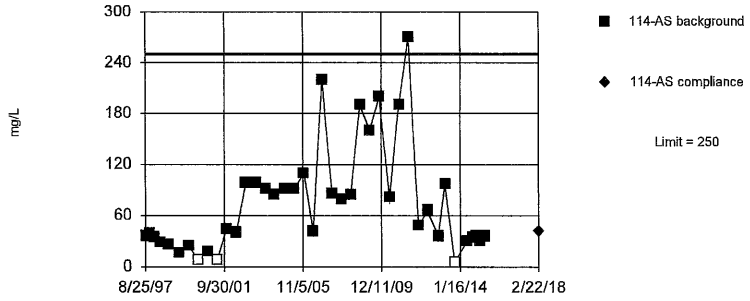
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=3.906, Std. Dev.=1.151, n=40, 7.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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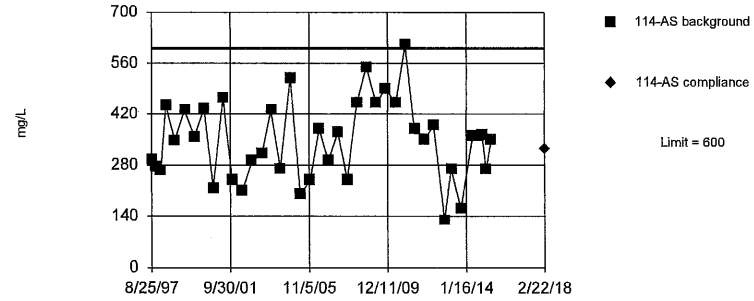
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=18.41, Std. Dev.=2.965, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9847, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

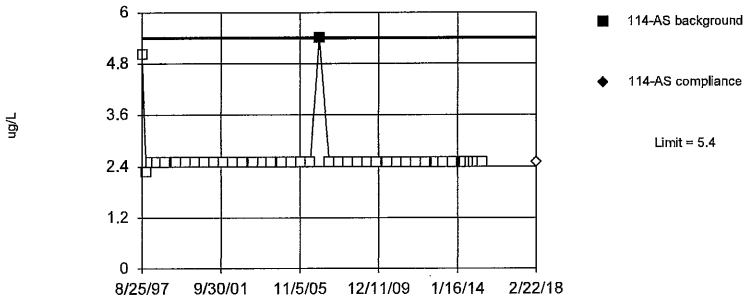
Constituent: Chloride Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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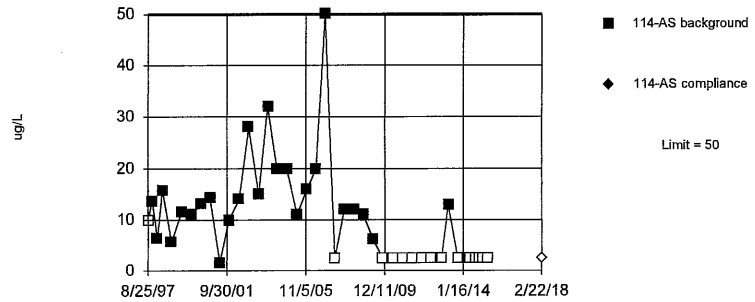
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Cobalt Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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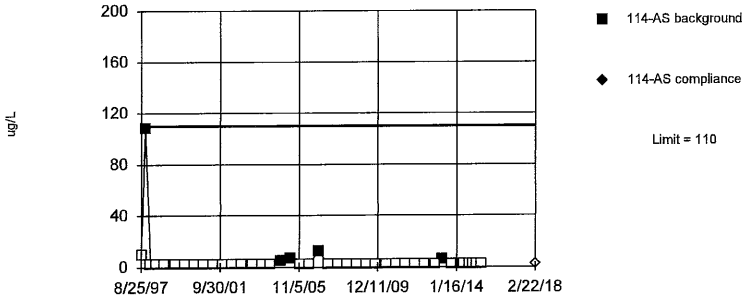
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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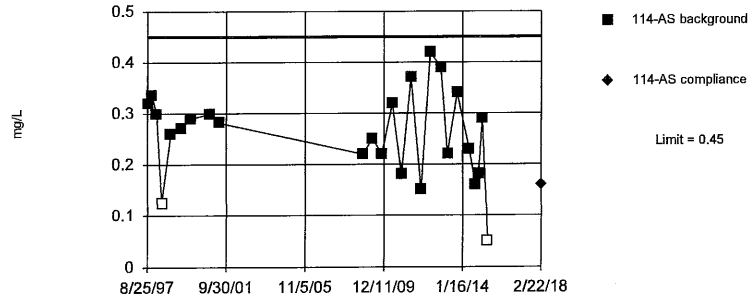
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2589, Std. Dev.=0.08723, n=25, 8% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9851, critical = 0.888. Kappa = 2.19 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. One background outlier was removed: 1.23 (5/23/2000).

Constituent: Fluoride Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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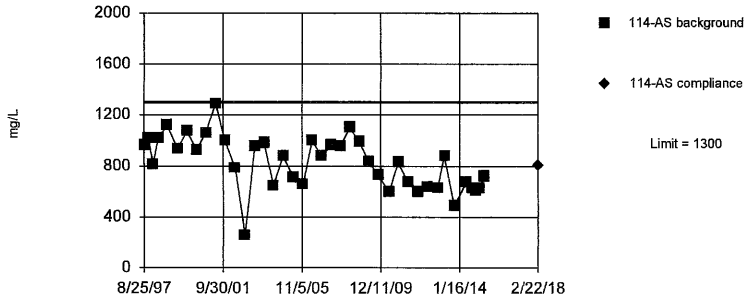
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=828.3, Std. Dev.=205.5, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9694, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Hardness Total Analysis Run 4/17/2018 7:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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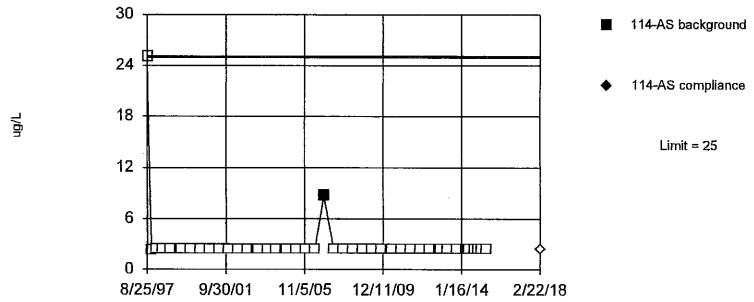
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/17/2018 7:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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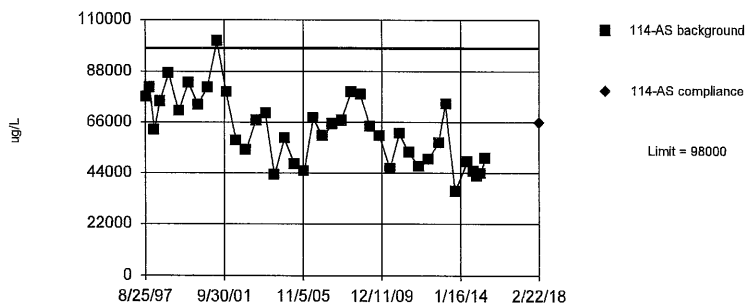
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=39.5, Std. Dev.=3.161, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.974, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 4/17/2018 7:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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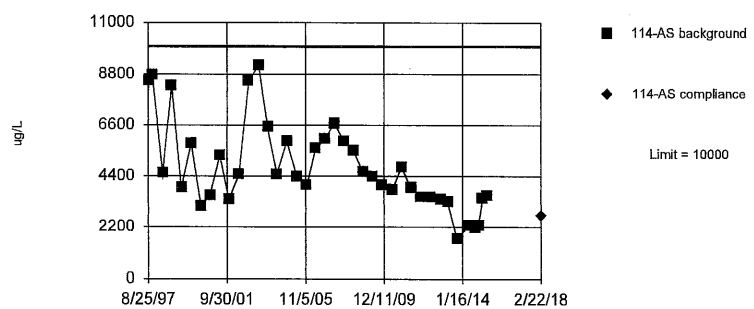
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=8.401, Std. Dev.=0.3974, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.966, critical = 0.917. Kappa = 2.081 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. One background outlier was removed: 6.38 (2/16/1998).

Constituent: Manganese Total Analysis Run 4/17/2018 7:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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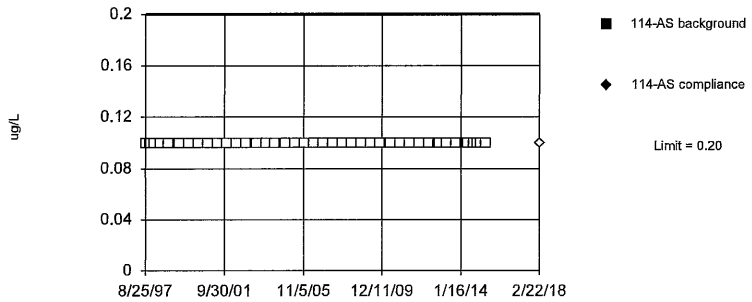
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Mercury Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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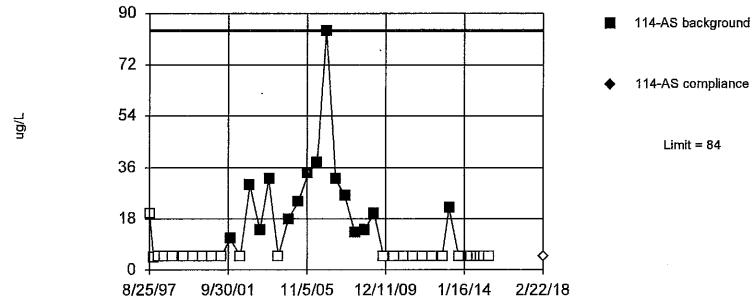
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

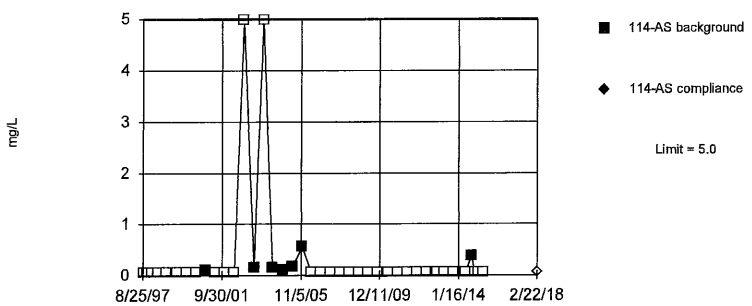
Constituent: Nickel Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

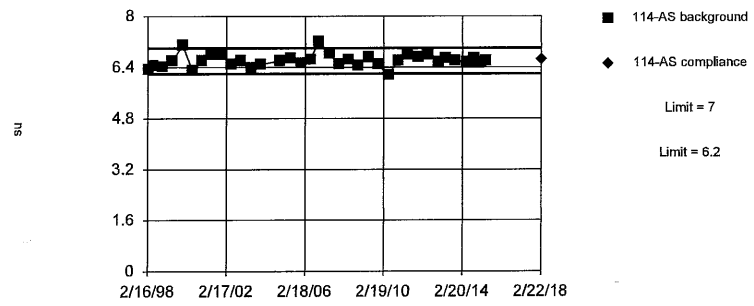
Constituent: Nitrate/Nitrite Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.888, Std. Dev.=0.02947, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9517, critical = 0.914. Kappa = 2.092 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. Three background outliers were removed: 5.8 (8/25/1997); 5.91 (11/10/1997); 7.5 (5/11/2004).

Constituent: pH [Field] Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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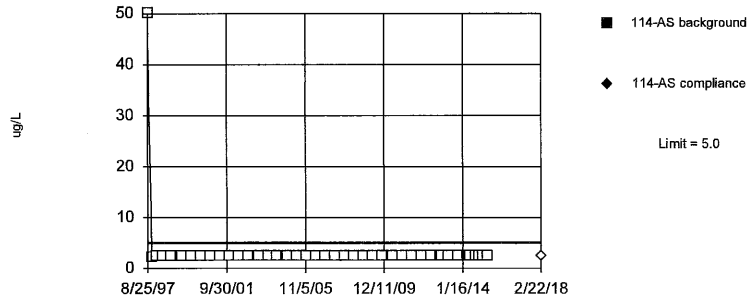
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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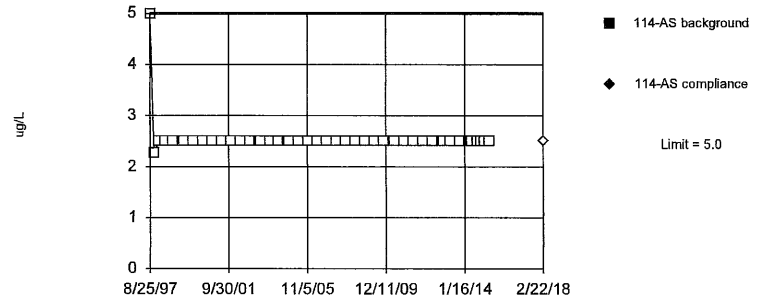
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

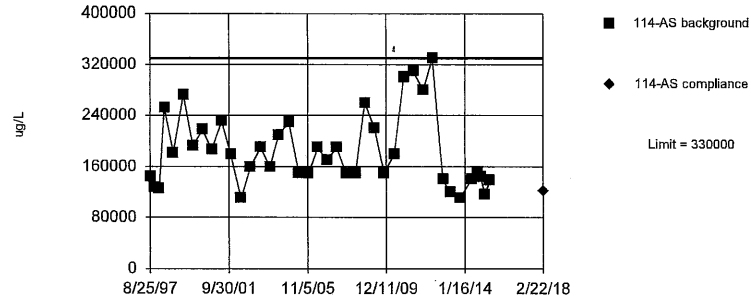
Constituent: Silver Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=12.09, Std. Dev.=0.2948, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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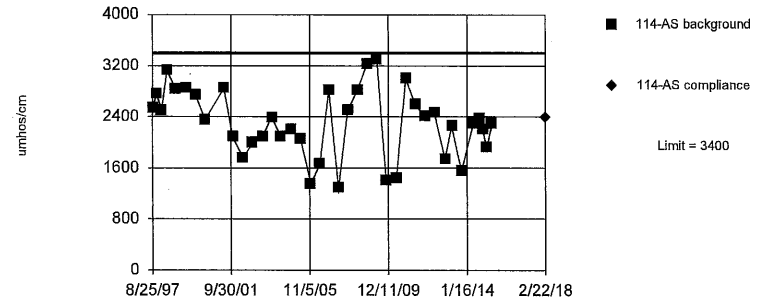
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2313, Std. Dev.=528.9, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9683, critical = 0.917. Kappa = 2.081 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. One background outlier was removed: 280 (11/13/2000).

Constituent: Specific Conductance [Field] Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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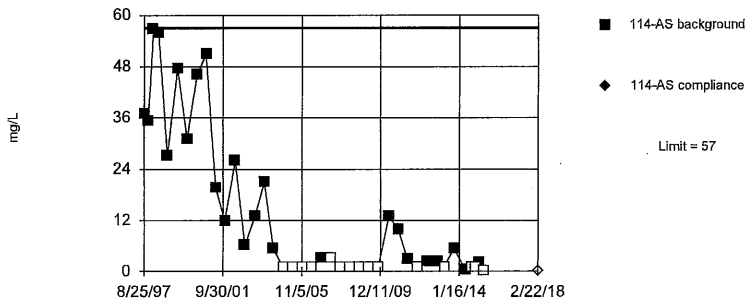
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Sulfate Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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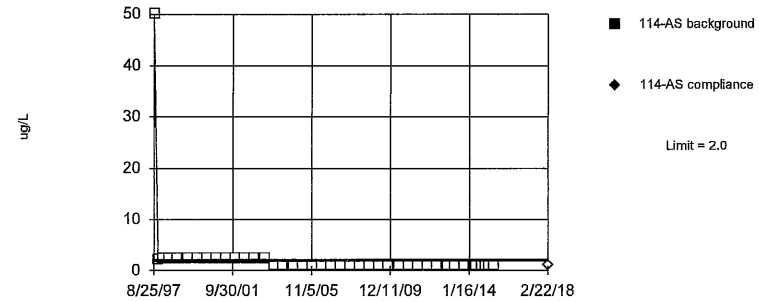
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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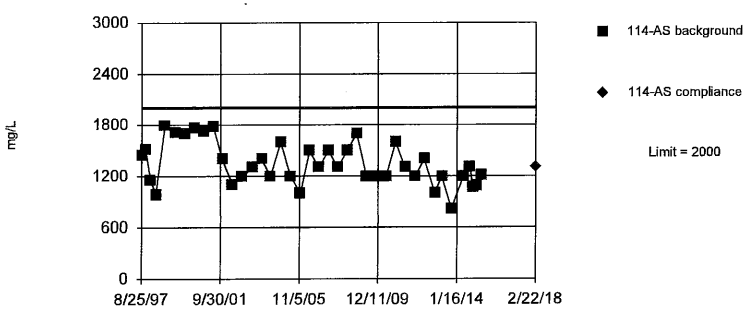
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.186, Std. Dev.=0.1882, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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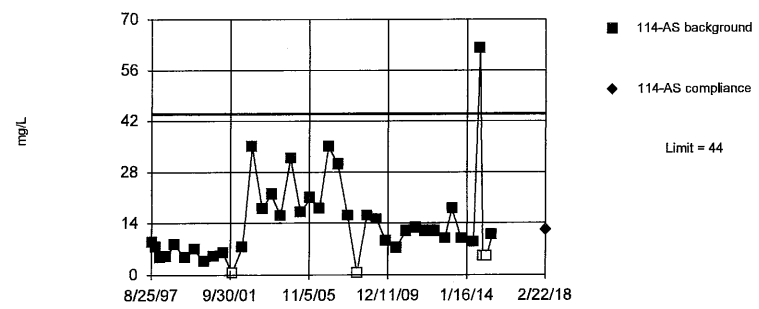
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.244, Std. Dev.=0.6242, n=40, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9684, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

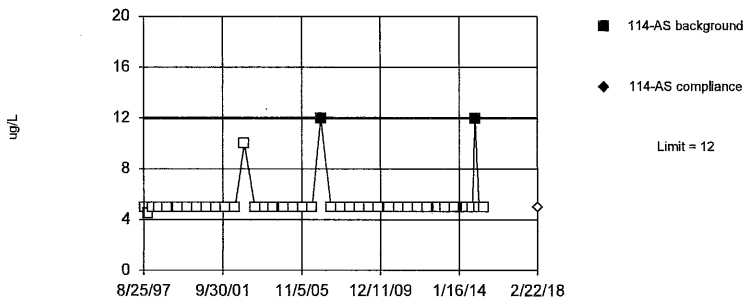
Constituent: Total Organic Carbon [TOC] Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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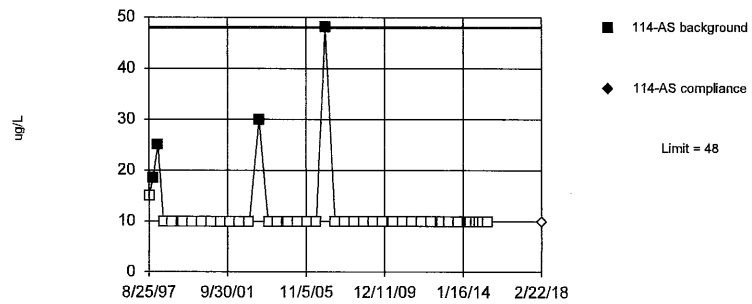
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/17/2018 7:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/17/2018, 7:58 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Ammonia as N (mg/L)	114-AS	31	n/a	2/22/2018	7.6	No	37	0.2618	1.512	2.703	None	ln(x)	0.0007744	Param Intra 1 of 2
Arsenic Total (ug/L)	114-AS	190	n/a	2/22/2018	66.3	No	23	7.394	2.888	4.348	None	sqrt(x)	0.0007744	Param Intra 1 of 2
Iron Total (ug/L)	114-AS	170000	n/a	2/22/2018	67800	No	20	31.84	10.42	0	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Phosphorus Total (mg/L)	**114-AS**	**2**	**n/a**	**2/22/2018**	**2.1**	**Yes**	**19**	**0.7295**	**0.2274**	**5.263**	**None**	**x^(1/3)**	**0.0007744**	**Param Intra 1 of 2**

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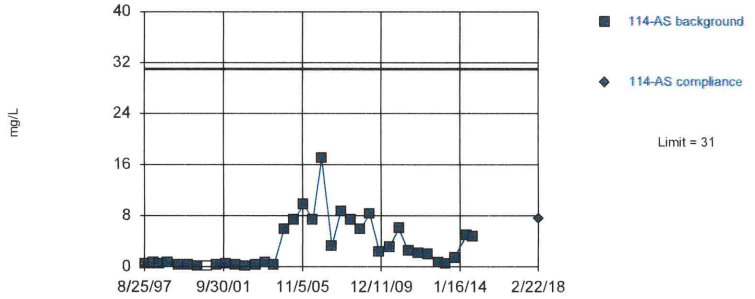
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.2618, Std. Dev.=1.512, n=37, 2.703% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9423, critical = 0.914. Kappa = 2.092 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Ammonia as N Analysis Run 4/17/2018 7:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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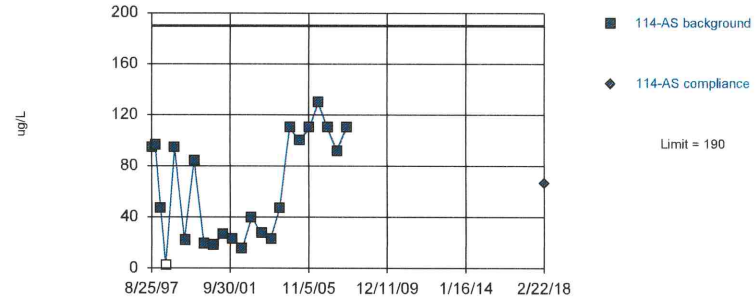
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=7.394, Std. Dev.=2.888, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8921, critical = 0.881. Kappa = 2.224 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 4/17/2018 7:55 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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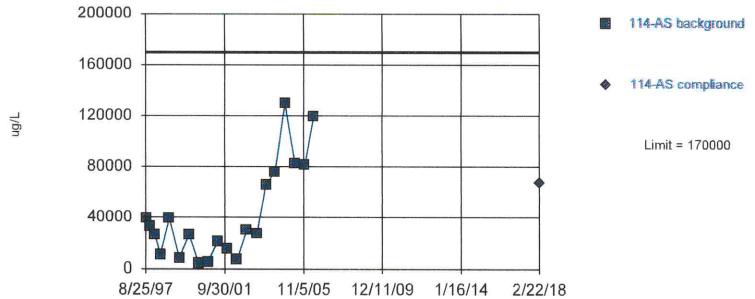
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=31.84, Std. Dev.=10.42, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.954, critical = 0.868. Kappa = 2.274 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/17/2018 7:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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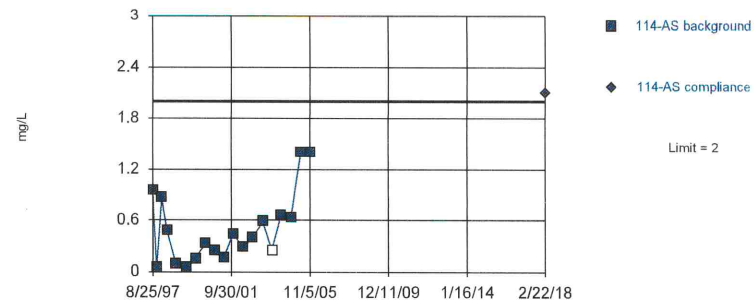
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.7295, Std. Dev.=0.2274, n=19, 5.263% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9712, critical = 0.901. Kappa = 2.302 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 4/17/2018 7:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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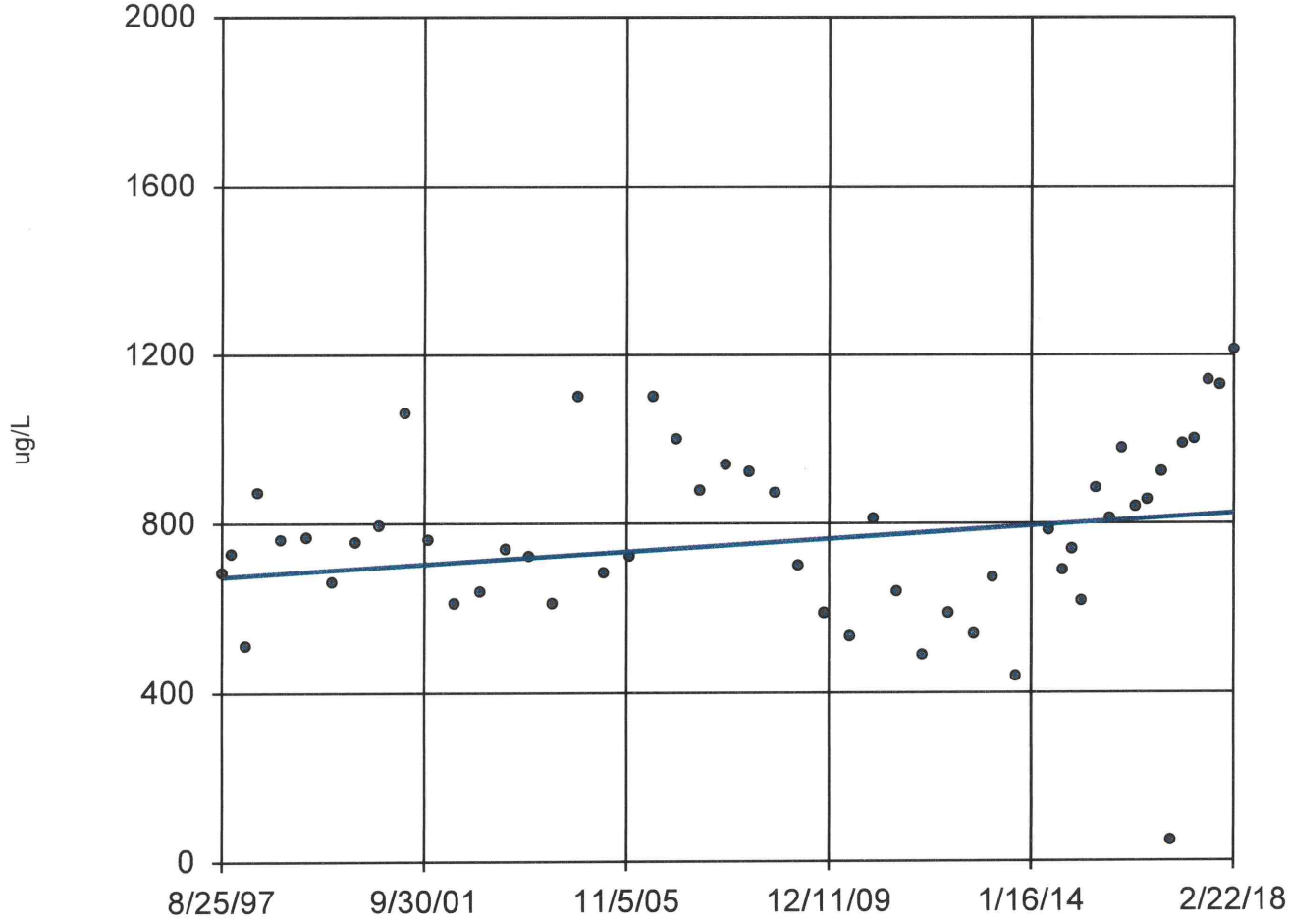
Sen's Slope Estimator

114-AS



n = 51

Slope = 7.329 units per year.

Mann-Kendall normal approx. = 1.6
critical = 2.33

Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 4/17/2018 11:33 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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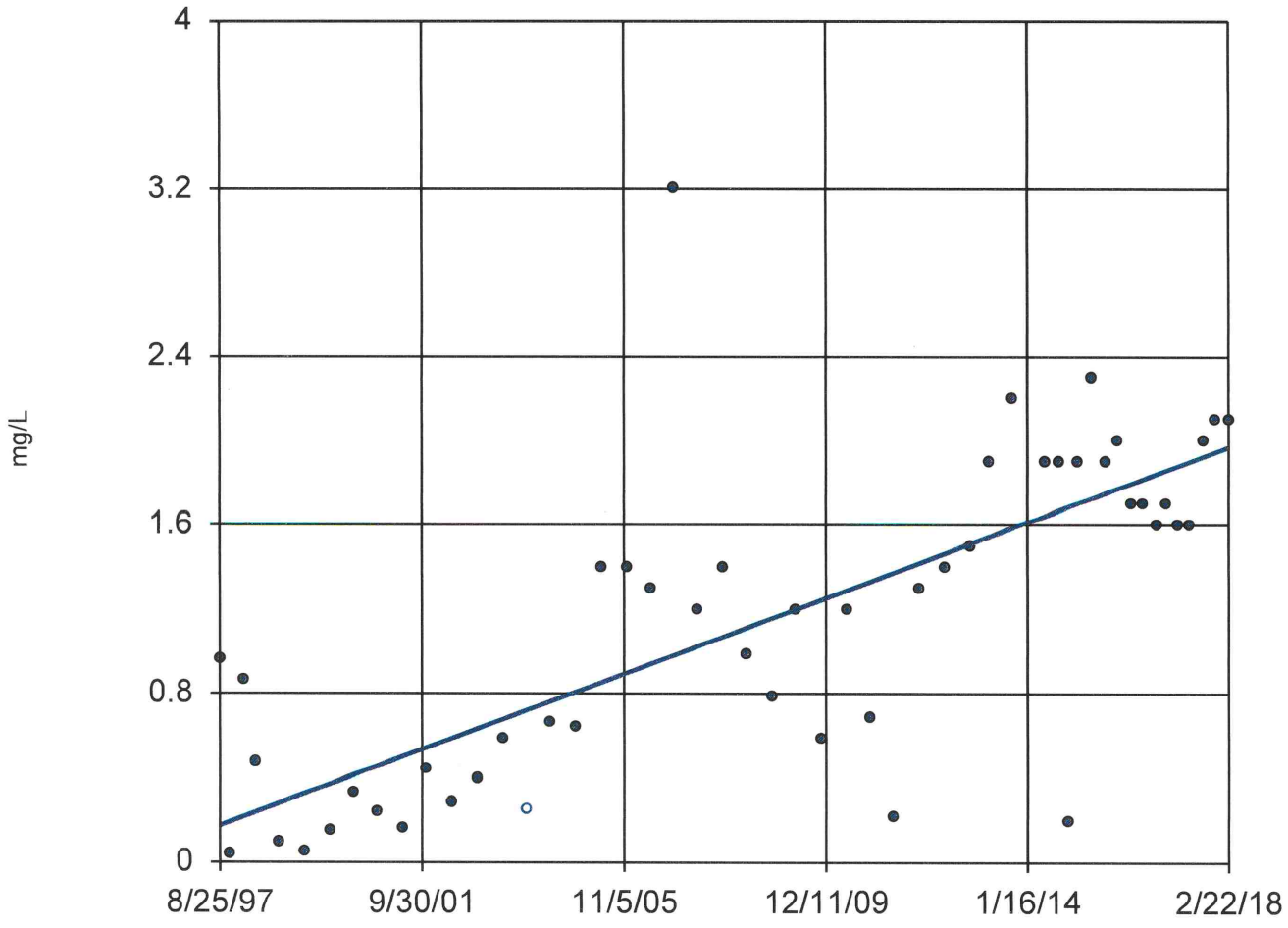
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS



n = 51

Slope = 0.0876 units per year.

Mann-Kendall normal approx. = 5.929
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 4/17/2018 11:33 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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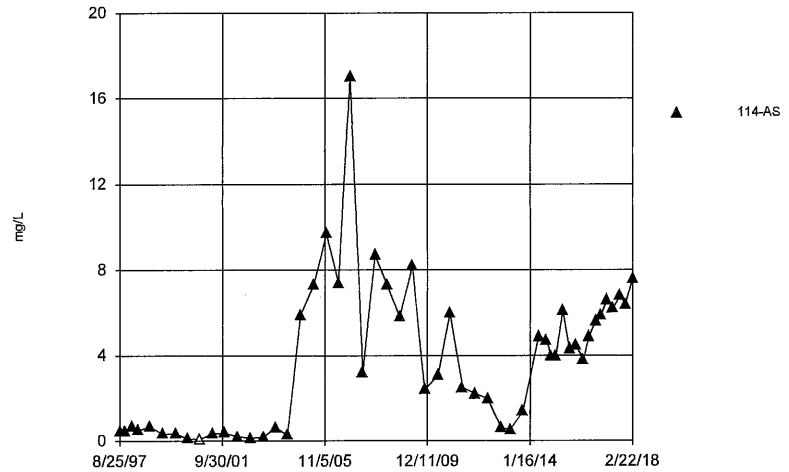
Hollow symbols indicate censored values.

Time Series



Constituent: Ammonia as N Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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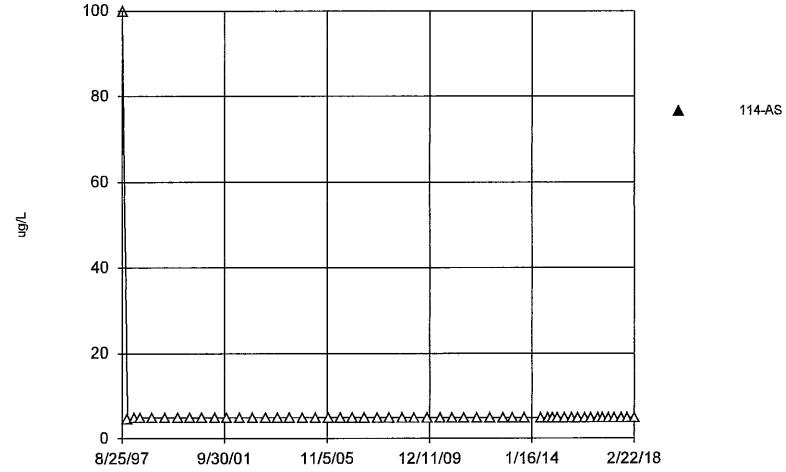
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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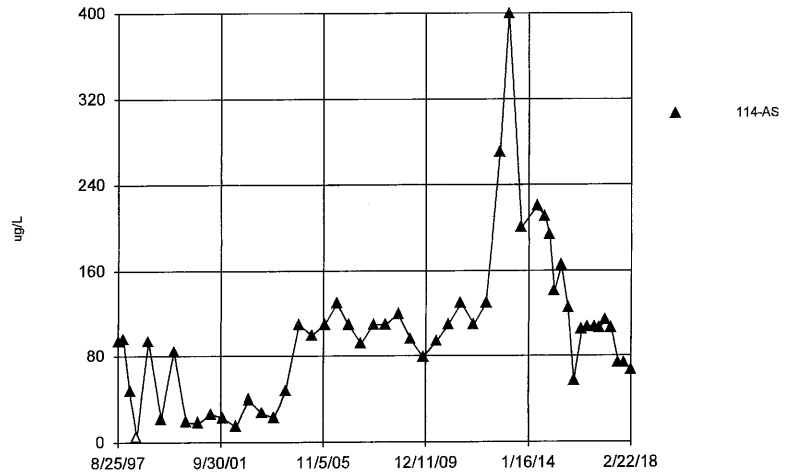
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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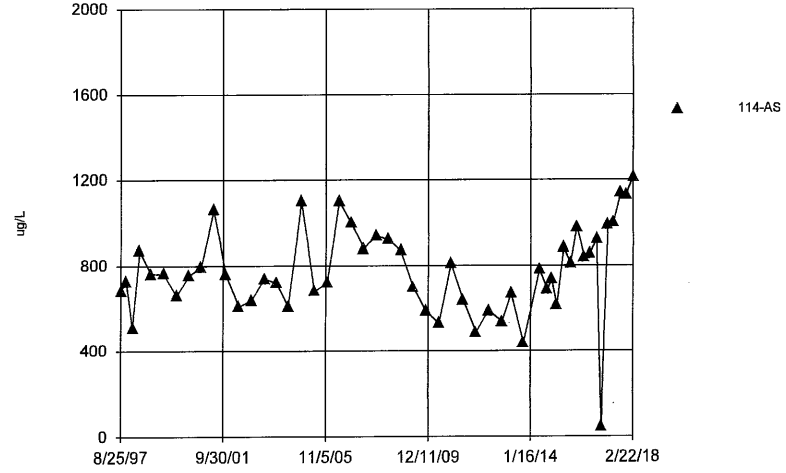
Time Series



Constituent: Barium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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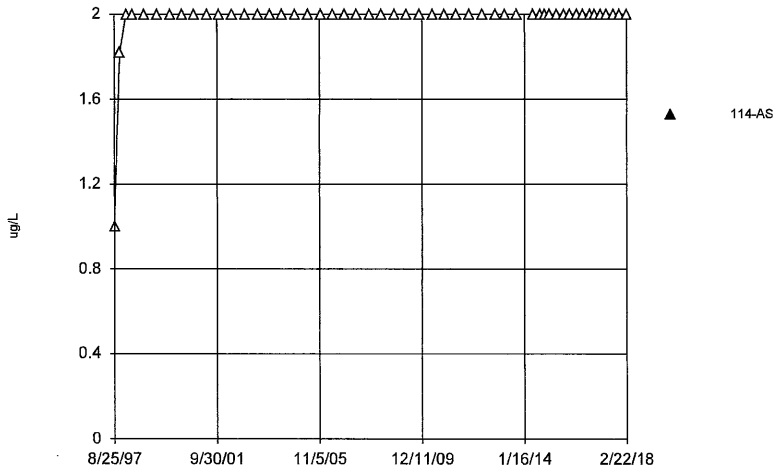
Hollow symbols indicate censored values.

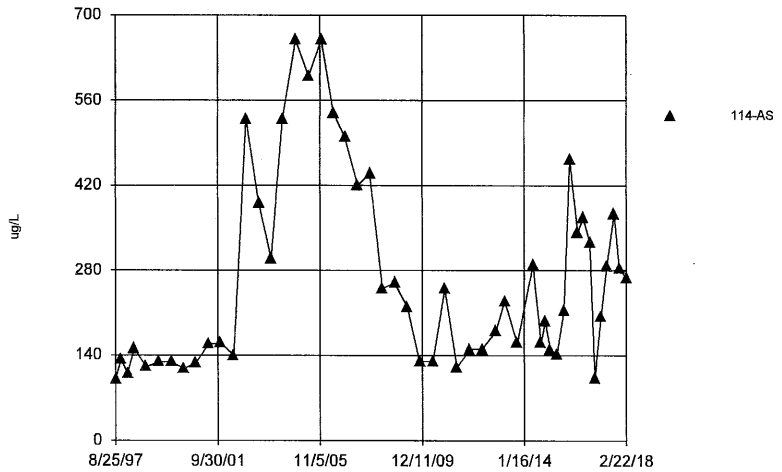
Time Series



Constituent: Beryllium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

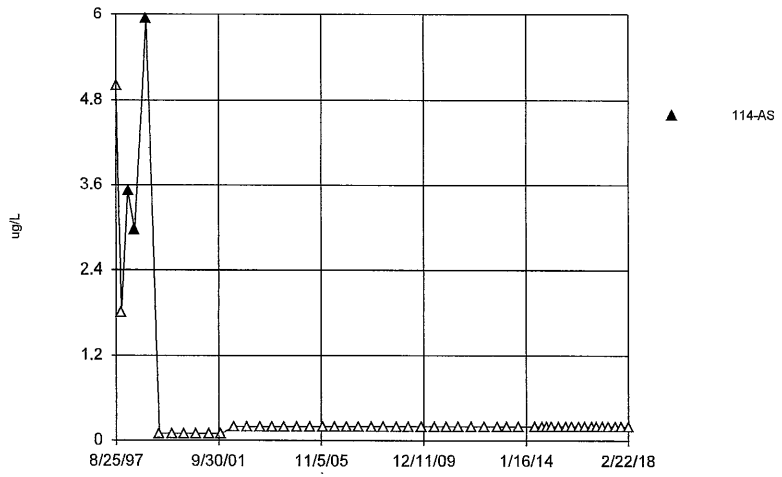
Time Series



Constituent: Boron Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

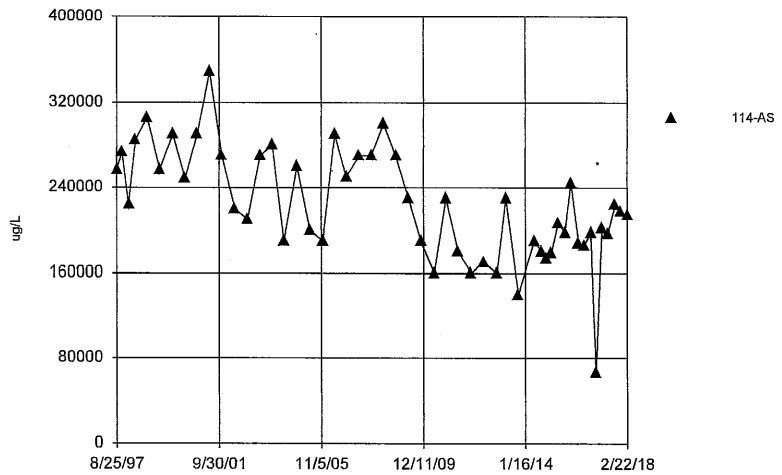
Time Series



Constituent: Cadmium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

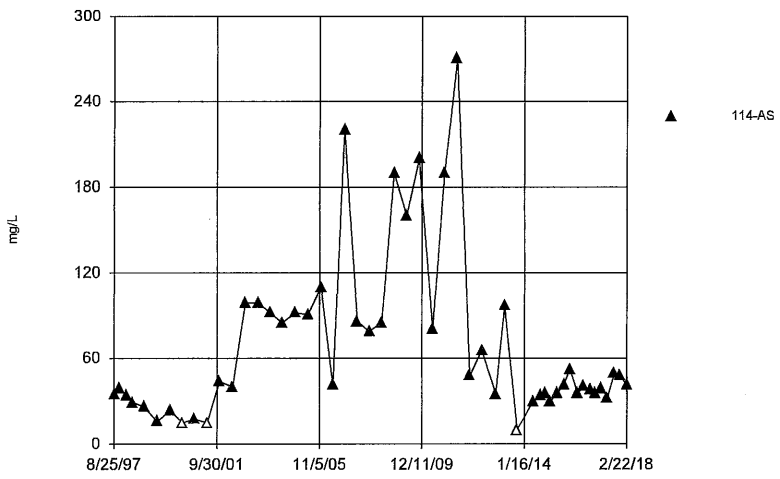
Time Series



Constituent: Calcium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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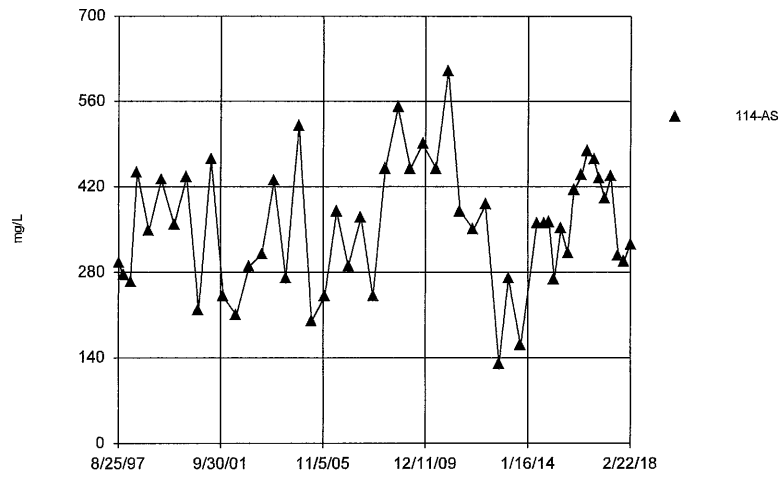
Time Series



Constituent: Chloride Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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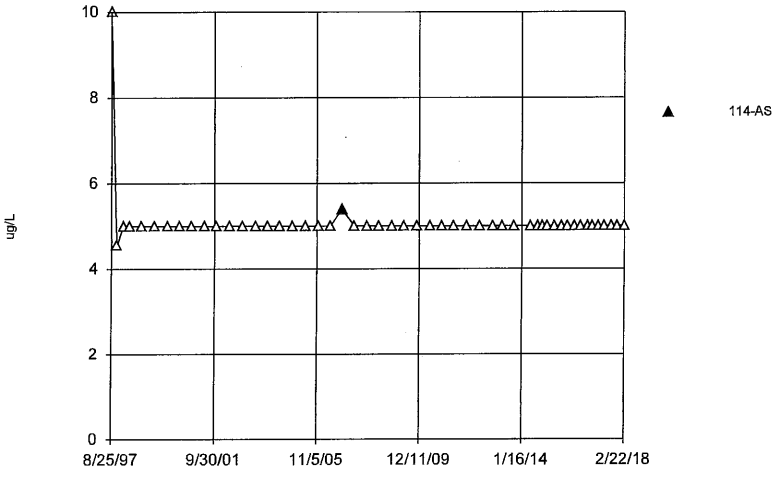
Hollow symbols indicate censored values.

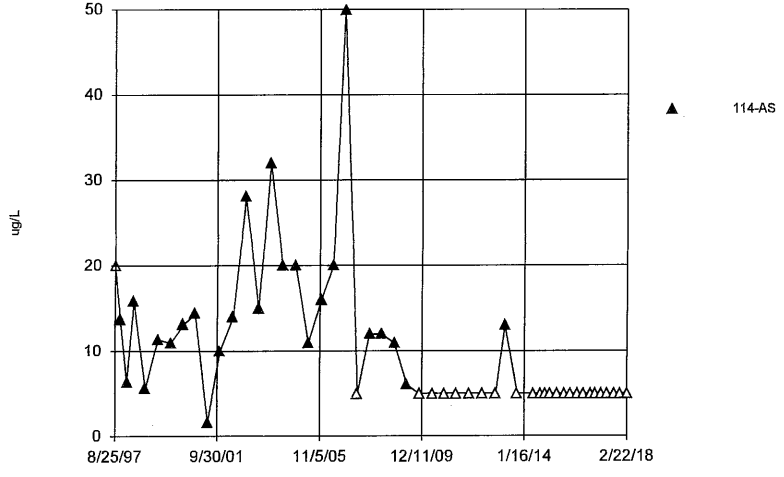
Time Series



Constituent: Chromium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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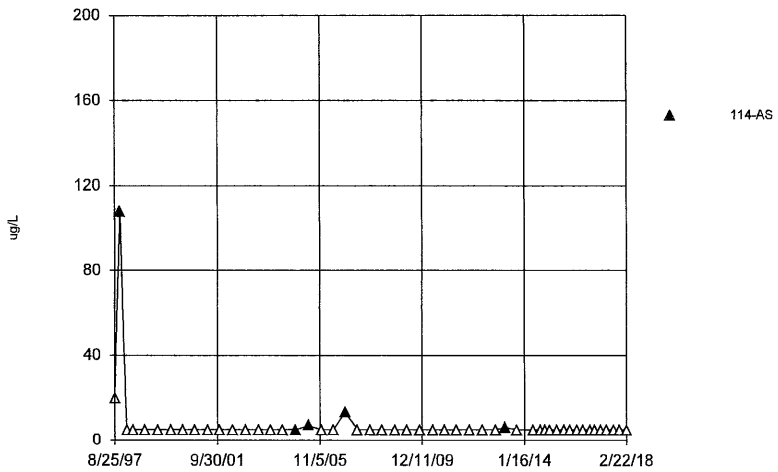
Hollow symbols indicate censored values.

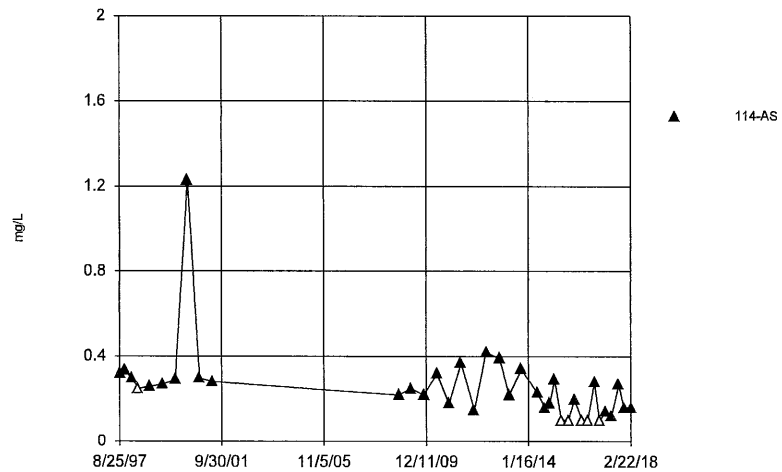
Time Series



Constituent: Copper Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

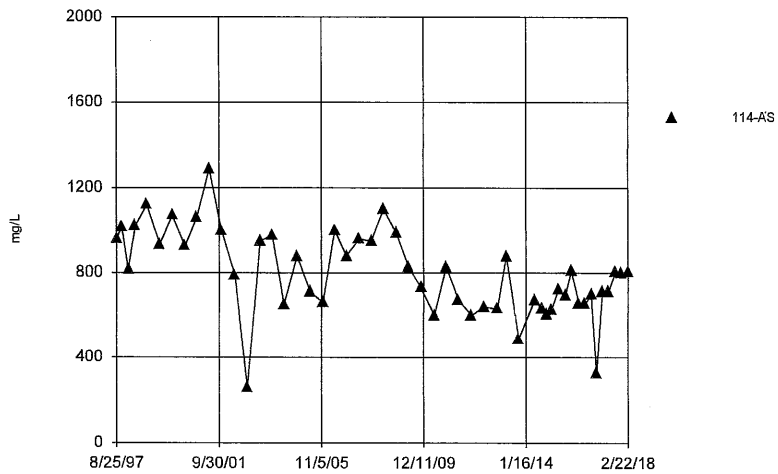
Time Series



Constituent: Fluoride Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

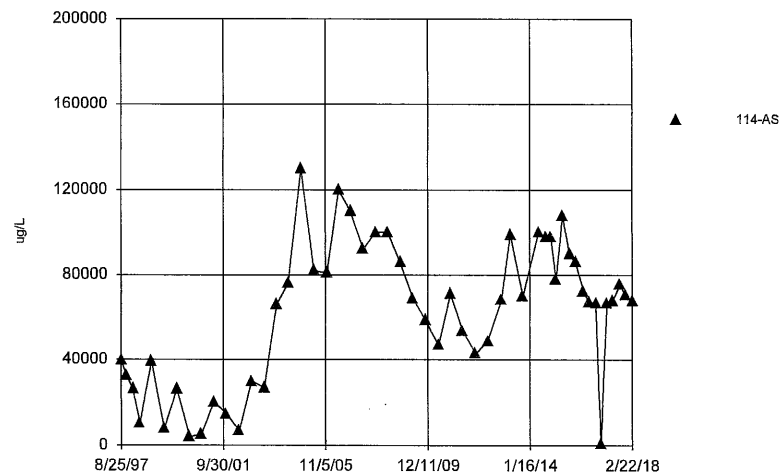
Time Series



Constituent: Hardness Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

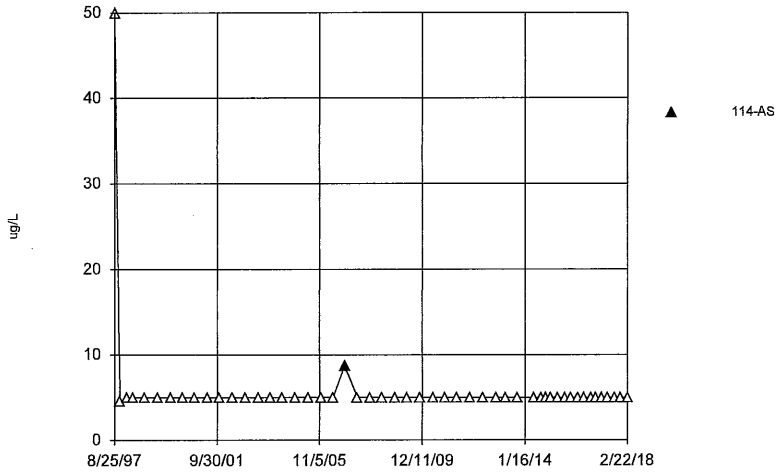
Time Series



Constituent: Iron Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

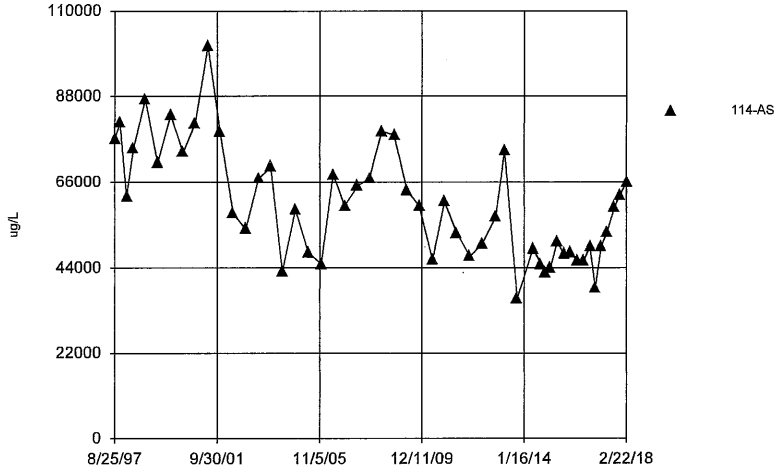
Time Series



Constituent: Lead Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

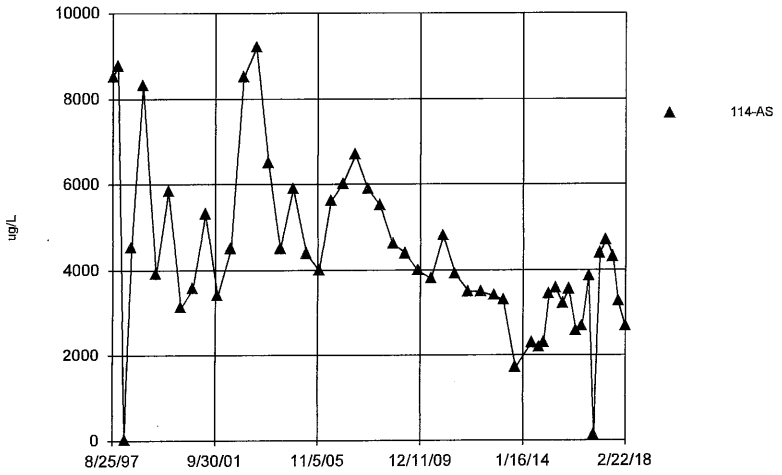
Time Series



Constituent: Magnesium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

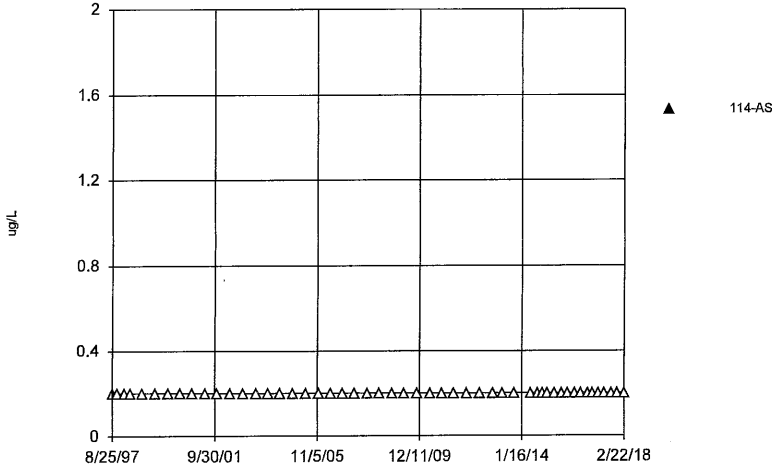
Time Series



Constituent: Manganese Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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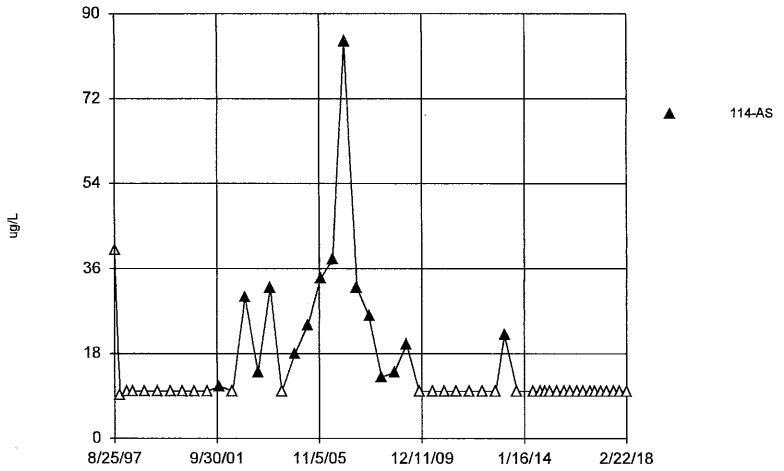
Hollow symbols indicate censored values.

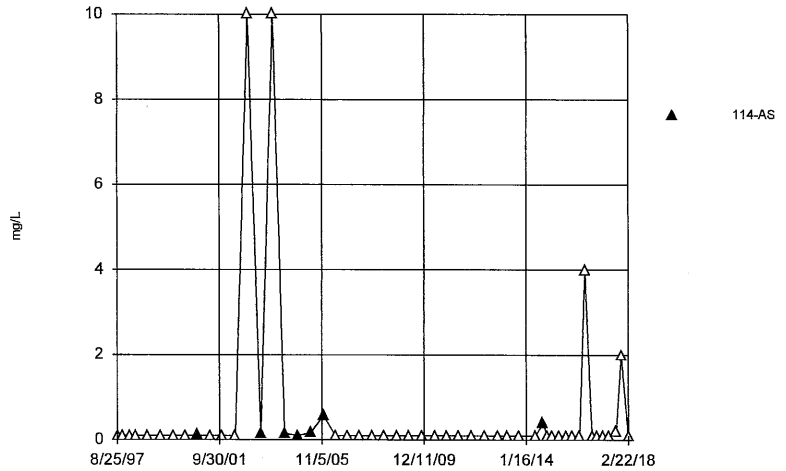
Time Series



Constituent: Nickel Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

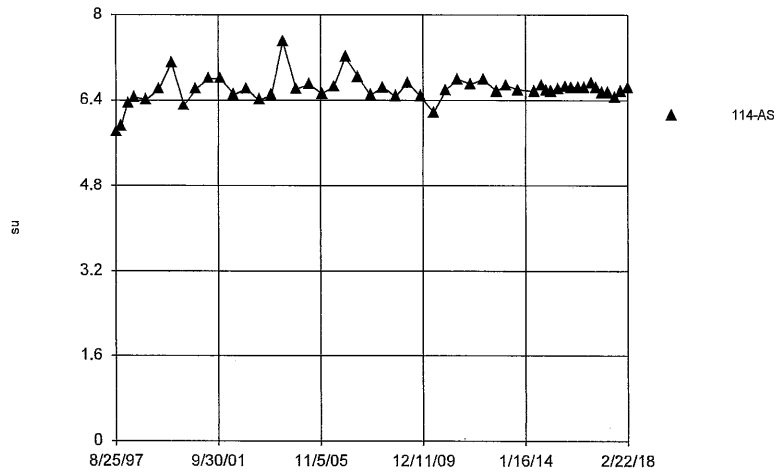
Time Series



Constituent: Nitrate/Nitrite Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

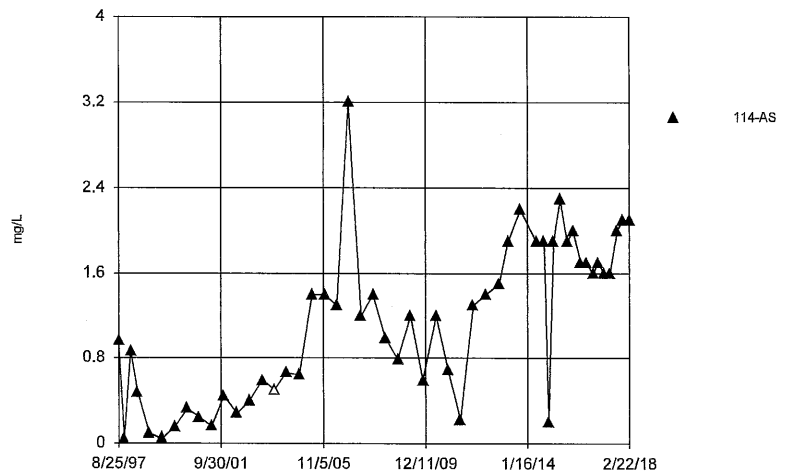
Time Series



Constituent: pH [Field] Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

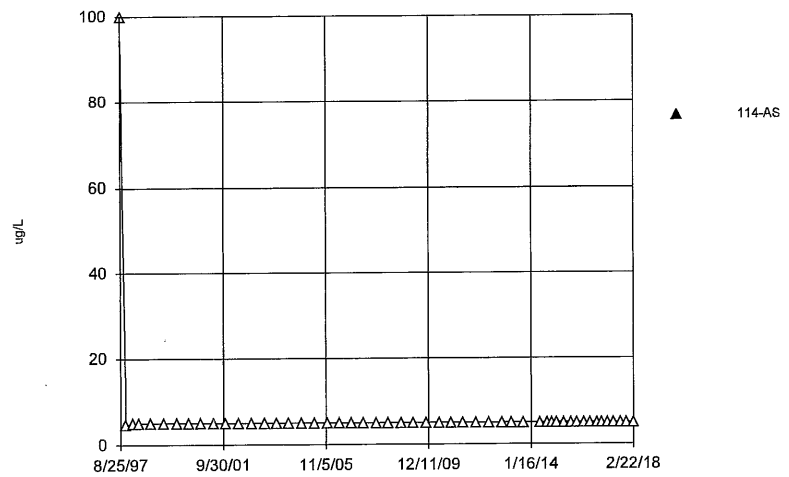
Time Series



Constituent: Phosphorus Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

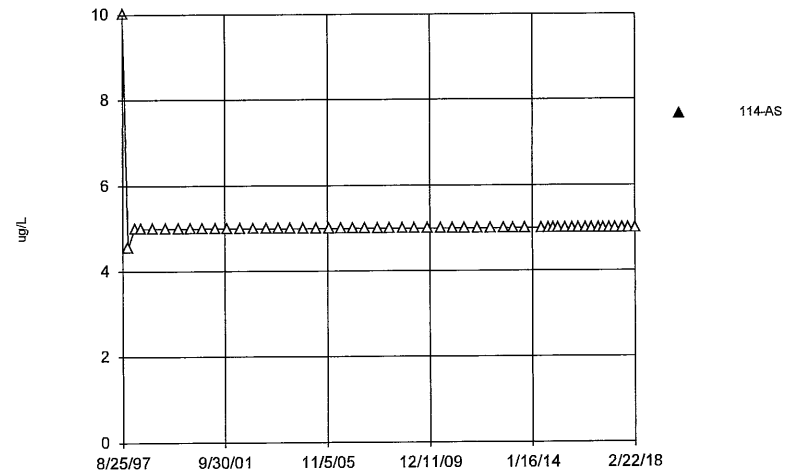
Time Series



Constituent: Selenium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

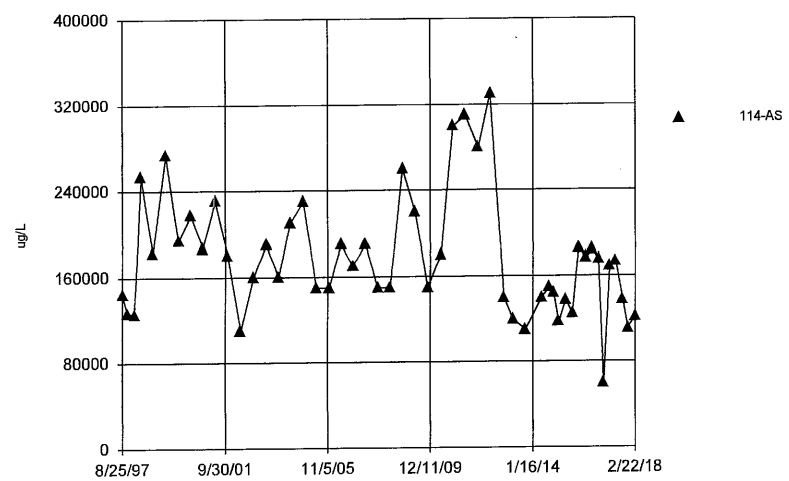
Time Series



Constituent: Silver Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

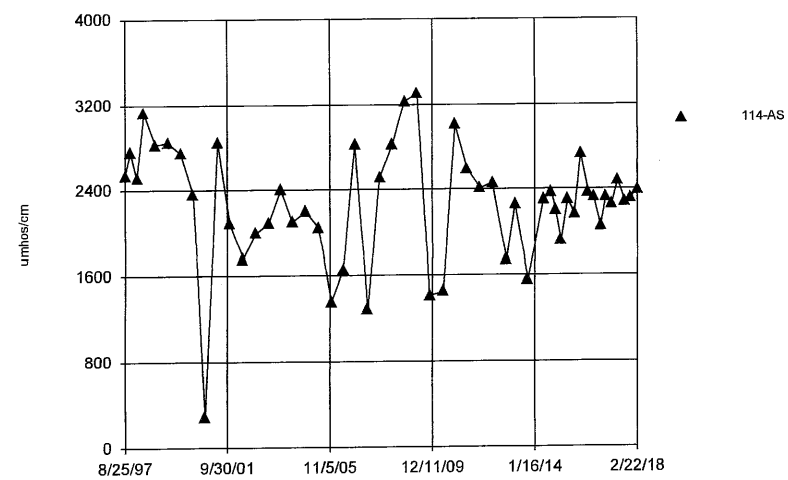
Time Series



Constituent: Sodium Total Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

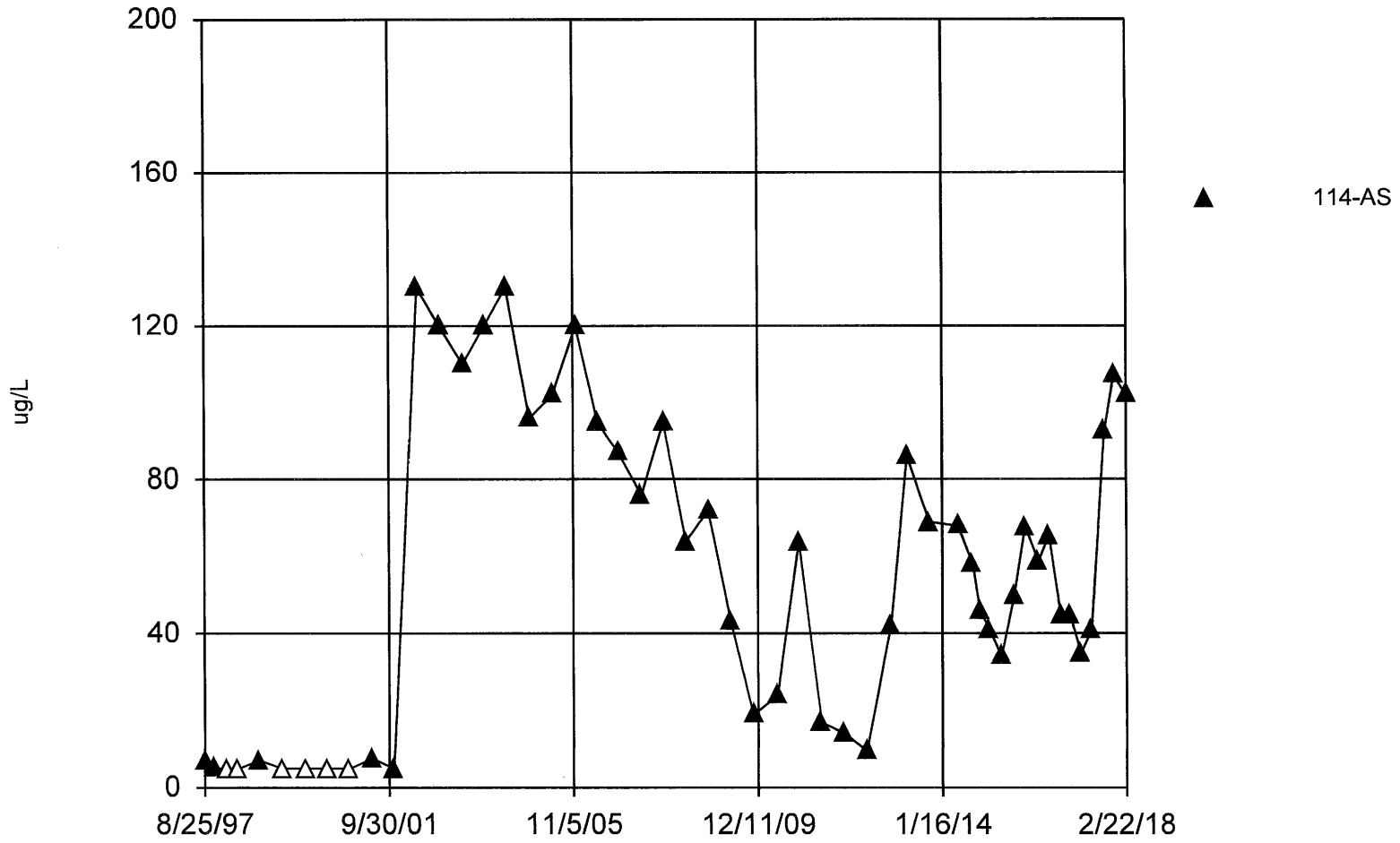
Time Series



Constituent: Specific Conductance [Field] Analysis Run 4/12/2018 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 4/12/2018 12:06 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX D
STATISTICAL EVALUATIONS
ST. LOUIS FORMATION

TREND EVALUATION OF BACKGROUND DATA

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Ammonia as N (mg/L)	100-SS (bg)	0	-51	-201	No	40	92.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	104-SS (bg)	0	110	201	No	40	80	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	105-SS (bg)	0	-138	-201	No	40	85	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	106-SS (bg)	0	51	201	No	40	67.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	109-SS (bg)	0	-62	-201	No	40	87.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	110-SS (bg)	0.004319	82	201	No	40	5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	115-SS (bg)	0	30	201	No	40	67.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	201A-SS (bg)	0	-47	-201	No	40	90	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	205-SS (bg)	0	-95	-201	No	40	90	n/a	n/a	0.02	NP
Antimony Total (ug/L)	100-SS (bg)	0	-22	-201	No	40	97.5	n/a	n/a	0.02	NP
Antimony Total (ug/L)	104-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Antimony Total (ug/L)	110-SS (bg)	0	46	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	115-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	201A-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	100-SS (bg)	0	46	201	No	40	97.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	104-SS (bg)	0	18	201	No	40	92.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	97.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	106-SS (bg)	0	89	201	No	40	55	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	109-SS (bg)	0	-171	-201	No	40	90	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	110-SS (bg)	0	-96	-201	No	40	92.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	**115-SS (bg)**	**0.01852**	**211**	**201**	**Yes**	**40**	**55**	**n/a**	**n/a**	**0.02**	**NP**
Arsenic Total (ug/L)	201A-SS (bg)	0	-85	-201	No	40	87.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	205-SS (bg)	0	-26	-201	No	40	97.5	n/a	n/a	0.02	NP
Barium Total (ug/L)	100-SS (bg)	0.1428	88	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**104-SS (bg)**	**0.8454**	**261**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**105-SS (bg)**	**4.903**	**327**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	106-SS (bg)	0	59	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	109-SS (bg)	0	-35	-201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**110-SS (bg)**	**7.415**	**420**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**115-SS (bg)**	**14.74**	**308**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	201A-SS (bg)	0.64	112	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**205-SS (bg)**	**0.4866**	**202**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Beryllium Total (ug/L)	100-SS (bg)	0	116	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	104-SS (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	105-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	106-SS (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	109-SS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	110-SS (bg)	0	116	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	115-SS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	201A-SS (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	205-SS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	**100-SS (bg)**	**1.059**	**234**	**201**	**Yes**	**40**	**10**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	**104-SS (bg)**	**3.228**	**377**	**201**	**Yes**	**40**	**20**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	109-SS (bg)	-0.3624	-57	-201	No	40	0	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron Total (ug/L)	110-SS (bg)	-0.6411	-87	-201	No	40	2.5	n/a	n/a	0.02	NP
Boron Total (ug/L)	**115-SS (bg)**	**12.11**	**266**	**201**	**Yes**	**40**	**27.5**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	201A-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	205-SS (bg)	0	-63	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	100-SS (bg)	0	-61	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	104-SS (bg)	0	-35	-201	No	40	100	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	105-SS (bg)	0	-92	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	106-SS (bg)	0	-63	-201	No	40	95	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	109-SS (bg)	0	-87	-201	No	40	95	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	110-SS (bg)	0	-34	-201	No	40	100	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	115-SS (bg)	0	-89	-201	No	40	95	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	201A-SS (bg)	0	-66	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	205-SS (bg)	0	-165	-201	No	40	87.5	n/a	n/a	0.02	NP
Calcium Total (ug/L)	100-SS (bg)	-114.8	-79	-201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	104-SS (bg)	243.6	118	201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**105-SS (bg)**	**1908**	**403**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**106-SS (bg)**	**584.2**	**291**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	109-SS (bg)	273.8	151	201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**110-SS (bg)**	**3124**	**313**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**115-SS (bg)**	**4611**	**259**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**201A-SS (bg)**	**941.3**	**409**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**205-SS (bg)**	**391**	**295**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**100-SS (bg)**	**0**	**-301**	**-201**	**Yes**	**40**	**97.5**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	104-SS (bg)	0	73	201	No	40	75	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	105-SS (bg)	0	-161	-201	No	40	75	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**106-SS (bg)**	**0**	**-339**	**-201**	**Yes**	**40**	**90**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**109-SS (bg)**	**0**	**-268**	**-201**	**Yes**	**40**	**95**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	110-SS (bg)	0.5451	88	201	No	40	0	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	115-SS (bg)	1.334	147	201	No	40	30	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**201A-SS (bg)**	**0**	**-366**	**-201**	**Yes**	**40**	**95**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**205-SS (bg)**	**0**	**-229**	**-201**	**Yes**	**40**	**90**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**100-SS (bg)**	**-0.1805**	**-260**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**104-SS (bg)**	**0.1496**	**335**	**201**	**Yes**	**40**	**40**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**105-SS (bg)**	**4.592**	**437**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**106-SS (bg)**	**0.9369**	**452**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**109-SS (bg)**	**-0.09448**	**-319**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**110-SS (bg)**	**2.339**	**204**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**115-SS (bg)**	**11.58**	**248**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**201A-SS (bg)**	**0.1287**	**491**	**201**	**Yes**	**40**	**30**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**205-SS (bg)**	**0.7123**	**329**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Chromium Total (ug/L)	100-SS (bg)	0	-157	-201	No	40	90	n/a	n/a	0.02	NP
Chromium Total (ug/L)	104-SS (bg)	0	-180	-201	No	40	95	n/a	n/a	0.02	NP
Chromium Total (ug/L)	105-SS (bg)	0	-82	-201	No	40	97.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	106-SS (bg)	0	-83	-201	No	40	90	n/a	n/a	0.02	NP
Chromium Total (ug/L)	109-SS (bg)	0	-192	-201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	110-SS (bg)	0	-190	-201	No	40	95	n/a	n/a	0.02	NP
Chromium Total (ug/L)	115-SS (bg)	0	-46	-201	No	40	97.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	201A-SS (bg)	0	-126	-201	No	40	92.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	205-SS (bg)	0	-132	-201	No	40	85	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	100-SS (bg)	0	-100	-201	No	40	100	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt Total (ug/L)	104-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	106-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	109-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	110-SS (bg)	0	-170	-201	No	40	97.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	115-SS (bg)	0.262	172	201	No	40	42.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	201A-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	205-SS (bg)	0	-102	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	100-SS (bg)	0	-164	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	104-SS (bg)	0	-136	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	105-SS (bg)	0	-80	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	106-SS (bg)	0	-102	-201	No	40	95	n/a	n/a	0.02	NP
Copper Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	110-SS (bg)	0	-110	-201	No	40	70	n/a	n/a	0.02	NP
Copper Total (ug/L)	115-SS (bg)	0	-72	-201	No	40	82.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	201A-SS (bg)	0	-138	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	205-SS (bg)	0	-25	-201	No	40	90	n/a	n/a	0.02	NP
Fluoride (mg/L)	**100-SS (bg)**	**-0.00...**	**-214**	**-186**	**Yes**	**38**	**2.632**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	104-SS (bg)	0	-1	-186	No	38	2.632	n/a	n/a	0.02	NP
Fluoride (mg/L)	**105-SS (bg)**	**-0.01749**	**-384**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	106-SS (bg)	-0.00...	-94	-186	No	38	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	**109-SS (bg)**	**0.0198**	**264**	**186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**110-SS (bg)**	**-0.01819**	**-375**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**115-SS (bg)**	**-0.05116**	**-340**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**201A-SS (bg)**	**-0.00...**	**-341**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**205-SS (bg)**	**-0.00...**	**-188**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	100-SS (bg)	0	7	201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	104-SS (bg)	1.426	170	201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**105-SS (bg)**	**9.008**	**387**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**106-SS (bg)**	**2.804**	**278**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	109-SS (bg)	1.292	165	201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**110-SS (bg)**	**10.01**	**287**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**115-SS (bg)**	**18.87**	**276**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**201A-SS (bg)**	**4.532**	**349**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**205-SS (bg)**	**3.993**	**352**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	100-SS (bg)	0	-28	-201	No	40	25	n/a	n/a	0.02	NP
Iron Total (ug/L)	**104-SS (bg)**	**-116.2**	**-276**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	105-SS (bg)	-44.5	-178	-201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**106-SS (bg)**	**51.01**	**414**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	**109-SS (bg)**	**-18.82**	**-357**	**-201**	**Yes**	**40**	**5**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	110-SS (bg)	107.5	166	201	No	40	2.5	n/a	n/a	0.02	NP
Iron Total (ug/L)	**115-SS (bg)**	**100.5**	**332**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	201A-SS (bg)	-24.18	-189	-201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	205-SS (bg)	-33.55	-182	-201	No	40	0	n/a	n/a	0.02	NP
Lead Total (ug/L)	100-SS (bg)	0	-93	-201	No	40	95	n/a	n/a	0.02	NP
Lead Total (ug/L)	104-SS (bg)	0	-62	-201	No	40	95	n/a	n/a	0.02	NP
Lead Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Lead Total (ug/L)	110-SS (bg)	0	46	201	No	40	100	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lead Total (ug/L)	115-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	201A-SS (bg)	0	-132	-201	No	40	95	n/a	n/a	0.02	NP
Lead Total (ug/L)	205-SS (bg)	0	-16	-201	No	40	87.5	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	100-SS (bg)	175.4	165	201	No	40	0	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**104-SS (bg)**	**266.6**	**263**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**105-SS (bg)**	**937**	**399**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**106-SS (bg)**	**346.9**	**326**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	109-SS (bg)	96.8	100	201	No	40	0	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**110-SS (bg)**	**851.4**	**291**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**115-SS (bg)**	**1502**	**244**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**201A-SS (bg)**	**642.5**	**444**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**205-SS (bg)**	**484.6**	**412**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**100-SS (bg)**	**0**	**-215**	**-201**	**Yes**	**40**	**57.5**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	104-SS (bg)	-0.9428	-141	-201	No	40	2.5	n/a	n/a	0.02	NP
Manganese Total (ug/L)	105-SS (bg)	-0.6502	-127	-201	No	40	2.5	n/a	n/a	0.02	NP
Manganese Total (ug/L)	106-SS (bg)	0.355	77	201	No	40	2.5	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**109-SS (bg)**	**-0.8628**	**-304**	**-201**	**Yes**	**40**	**42.5**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**110-SS (bg)**	**2.934**	**236**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**115-SS (bg)**	**3.607**	**301**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**201A-SS (bg)**	**-11.65**	**-318**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**205-SS (bg)**	**-0.5884**	**-264**	**-201**	**Yes**	**40**	**30**	**n/a**	**n/a**	**0.02**	**NP**
Mercury Total (ug/L)	100-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	104-SS (bg)	0	-61	-201	No	40	97.5	n/a	n/a	0.02	NP
Mercury Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	109-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	110-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	115-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	201A-SS (bg)	0	-53	-201	No	40	97.5	n/a	n/a	0.02	NP
Mercury Total (ug/L)	205-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	**100-SS (bg)**	**-0.5913**	**-261**	**-201**	**Yes**	**40**	**10**	**n/a**	**n/a**	**0.02**	**NP**
Nickel Total (ug/L)	104-SS (bg)	0	-130	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	105-SS (bg)	0	-54	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	106-SS (bg)	0	-170	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	109-SS (bg)	0	-132	-201	No	40	95	n/a	n/a	0.02	NP
Nickel Total (ug/L)	110-SS (bg)	0	-40	-201	No	40	25	n/a	n/a	0.02	NP
Nickel Total (ug/L)	**115-SS (bg)**	**1.87**	**232**	**201**	**Yes**	**40**	**30**	**n/a**	**n/a**	**0.02**	**NP**
Nickel Total (ug/L)	201A-SS (bg)	0	-126	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	205-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	100-SS (bg)	0	-74	-201	No	40	75	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	104-SS (bg)	0	58	201	No	40	90	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	105-SS (bg)	0	-46	-201	No	40	95	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	106-SS (bg)	0	-64	-201	No	40	92.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	109-SS (bg)	0	76	201	No	40	90	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	110-SS (bg)	0	-19	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	115-SS (bg)	0	-40	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	**201A-SS (bg)**	**0.01**	**364**	**201**	**Yes**	**40**	**50**	**n/a**	**n/a**	**0.02**	**NP**
Nitrate/Nitrite (mg/L)	205-SS (bg)	0	-18	-201	No	40	95	n/a	n/a	0.02	NP
pH [Field] (su)	100-SS (bg)	-0.01736	-196	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**104-SS (bg)**	**-0.0405**	**-277**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**

Trend Test

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Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH [Field] (su)	**105-SS (bg)**	**-0.02251**	**-283**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	**106-SS (bg)**	**-0.02559**	**-255**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	109-SS (bg)	-0.01685	-162	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**110-SS (bg)**	**-0.01825**	**-207**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	115-SS (bg)	-0.02196	-199	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**201A-SS (bg)**	**-0.0296**	**-300**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	**205-SS (bg)**	**-0.01733**	**-228**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	100-SS (bg)	0	-178	-201	No	40	70	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	104-SS (bg)	0	-95	-201	No	40	60	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**105-SS (bg)**	**-0.00...**	**-509**	**-201**	**Yes**	**40**	**50**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	106-SS (bg)	0	-90	-201	No	40	72.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	109-SS (bg)	0	-77	-201	No	40	72.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	110-SS (bg)	-0.00...	-147	-201	No	40	2.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**115-SS (bg)**	**0.009173**	**344**	**201**	**Yes**	**40**	**10**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	**201A-SS (bg)**	**0**	**-217**	**-201**	**Yes**	**40**	**70**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	205-SS (bg)	0	-16	-201	No	40	70	n/a	n/a	0.02	NP
Selenium Total (ug/L)	100-SS (bg)	0	46	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	104-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	109-SS (bg)	0	41	201	No	40	80	n/a	n/a	0.02	NP
Selenium Total (ug/L)	110-SS (bg)	0	45	201	No	40	97.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	115-SS (bg)	0	-62	-201	No	40	97.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	201A-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	100-SS (bg)	0	-100	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	104-SS (bg)	0	-98	-194	No	39	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	106-SS (bg)	0	-61	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	109-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	110-SS (bg)	0	-100	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	115-SS (bg)	0	-58	-201	No	40	97.5	n/a	n/a	0.02	NP
Silver Total (ug/L)	201A-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Sodium Total (ug/L)	**100-SS (bg)**	**-831.9**	**-488**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**104-SS (bg)**	**-502.2**	**-400**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**105-SS (bg)**	**571**	**215**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**106-SS (bg)**	**269.6**	**394**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**109-SS (bg)**	**-794.1**	**-400**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	110-SS (bg)	154.7	33	201	No	40	0	n/a	n/a	0.02	NP
Sodium Total (ug/L)	**115-SS (bg)**	**3767**	**297**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**201A-SS (bg)**	**-1529**	**-493**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**205-SS (bg)**	**-392.5**	**-234**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	100-SS (bg)	-3.436	-194	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	104-SS (bg)	3.086	107	201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**105-SS (bg)**	**17.15**	**333**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	106-SS (bg)	3.452	173	201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	109-SS (bg)	-1.534	-92	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**110-SS (bg)**	**16.95**	**292**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	**115-SS (bg)**	**55.65**	**298**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**

Trend Test

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Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Specific Conductance [Field] (u...	201A-SS (bg)	0.6058	38	201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	205-SS (bg)	1.604	104	201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**100-SS (bg)**	**-1.575**	**-512**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**104-SS (bg)**	**-1.275**	**-505**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**105-SS (bg)**	**3.61**	**428**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	106-SS (bg)	0.1357	84	201	No	40	2.5	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**109-SS (bg)**	**-1.556**	**-397**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**110-SS (bg)**	**-1.606**	**-300**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**115-SS (bg)**	**-1.746**	**-505**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**201A-SS (bg)**	**0.7361**	**205**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	205-SS (bg)	0.3668	130	201	No	40	0	n/a	n/a	0.02	NP
Thallium Total (ug/L)	**100-SS (bg)**	**0**	**-324**	**-201**	**Yes**	**40**	**97.5**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**104-SS (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**105-SS (bg)**	**-0.08868**	**-390**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**106-SS (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**109-SS (bg)**	**-0.08239**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**110-SS (bg)**	**0**	**-304**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**115-SS (bg)**	**-0.08238**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**201A-SS (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**205-SS (bg)**	**-0.08234**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**100-SS (bg)**	**-4.547**	**-362**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	104-SS (bg)	-1.495	-138	-201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	**105-SS (bg)**	**10.47**	**377**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	106-SS (bg)	1.895	188	201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	109-SS (bg)	-2.746	-201	-201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	110-SS (bg)	0	45	201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	**115-SS (bg)**	**20.92**	**246**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	201A-SS (bg)	0	40	201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	205-SS (bg)	0	-29	-201	No	40	0	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	100-SS (bg)	0	51	201	No	40	72.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	104-SS (bg)	0.01062	166	201	No	40	47.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	105-SS (bg)	-0.03496	-95	-201	No	40	17.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	**106-SS (bg)**	**0.02137**	**213**	**201**	**Yes**	**40**	**52.5**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	109-SS (bg)	0	167	201	No	40	52.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	110-SS (bg)	0.3407	163	201	No	40	0	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	115-SS (bg)	0.5685	195	201	No	40	22.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	201A-SS (bg)	0	146	201	No	40	50	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	**205-SS (bg)**	**0.04989**	**246**	**201**	**Yes**	**40**	**45**	**n/a**	**n/a**	**0.02**	**NP**
Vanadium Total (ug/L)	100-SS (bg)	0	5	201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	104-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	109-SS (bg)	0	9	201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	110-SS (bg)	0	38	201	No	40	97.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	115-SS (bg)	0	42	201	No	40	97.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	201A-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	205-SS (bg)	0	44	201	No	40	97.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	100-SS (bg)	0	-167	-201	No	40	92.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	104-SS (bg)	0	-180	-201	No	40	85	n/a	n/a	0.02	NP
Zinc Total (ug/L)	105-SS (bg)	0	-184	-201	No	40	85	n/a	n/a	0.02	NP

Trend Test

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Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Zinc Total (ug/L)	106-SS (bg)	0	-165	-201	No	40	92.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	**109-SS (bg)**	**-3.762**	**-661**	**-201**	**Yes**	**40**	**32.5**	**n/a**	**n/a**	**0.02**	**NP**
Zinc Total (ug/L)	110-SS (bg)	0	-176	-201	No	40	77.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	115-SS (bg)	0	-144	-201	No	40	87.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	201A-SS (bg)	0	-100	-201	No	40	85	n/a	n/a	0.02	NP
Zinc Total (ug/L)	**205-SS (bg)**	**0**	**-254**	**-201**	**Yes**	**40**	**82.5**	**n/a**	**n/a**	**0.02**	**NP**

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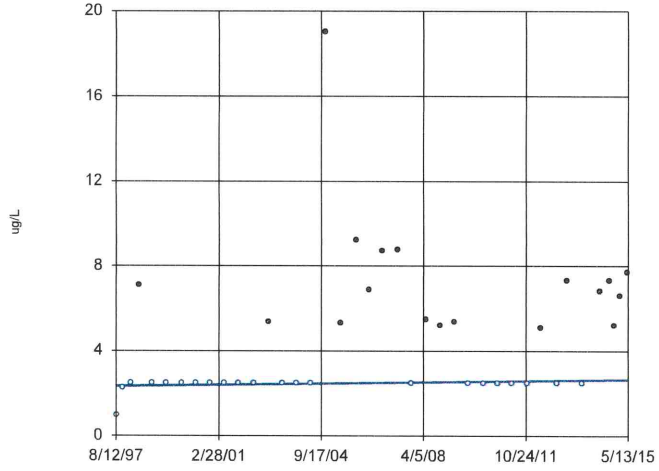
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 0.01852 units per year.

Mann-Kendall statistic = 211
critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Arsenic Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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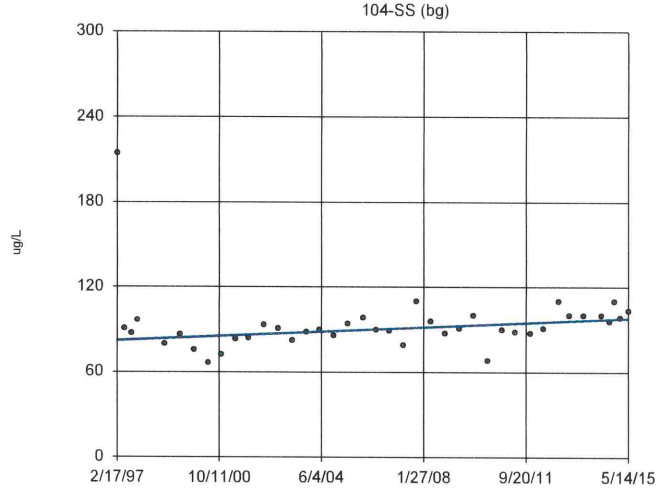
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 0.8454 units per year.

Mann-Kendall statistic = 261
critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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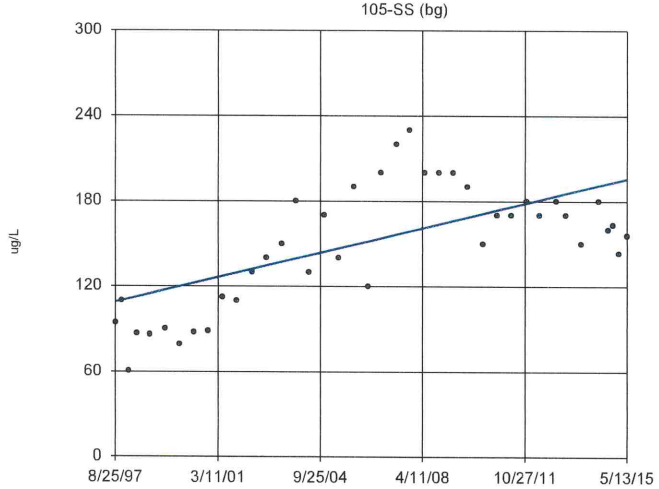
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 4.903 units per year.

Mann-Kendall statistic = 327
critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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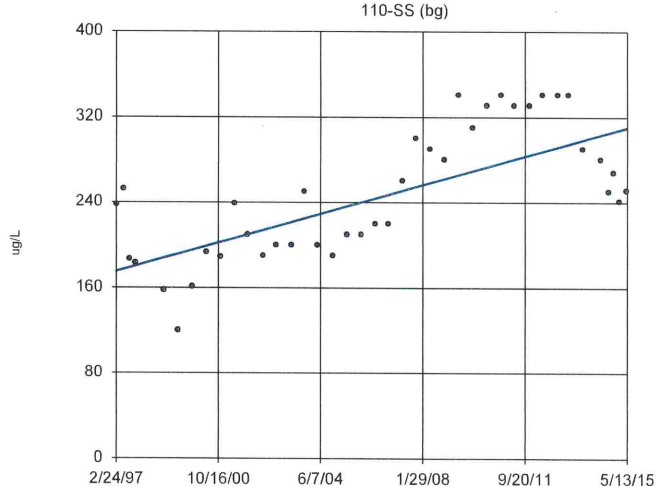
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 7.415 units per year.

Mann-Kendall statistic = 420
critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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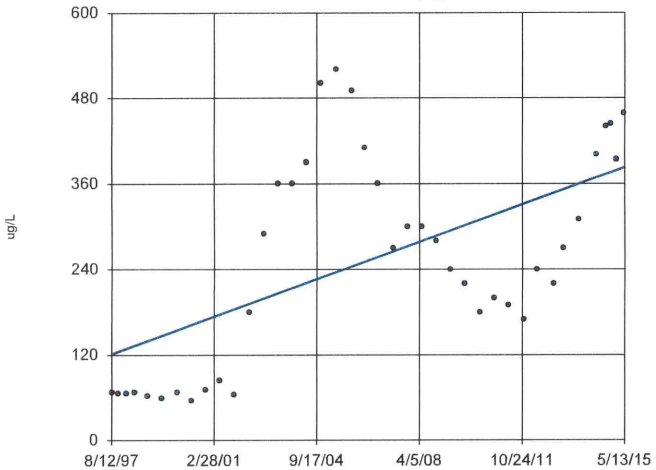
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 14.74 units per year.

Mann-Kendall statistic = 308 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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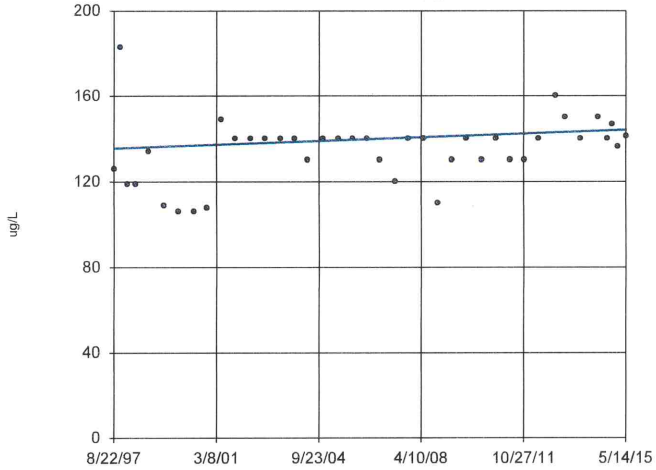
Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0.4866 units per year.

Mann-Kendall statistic = 202 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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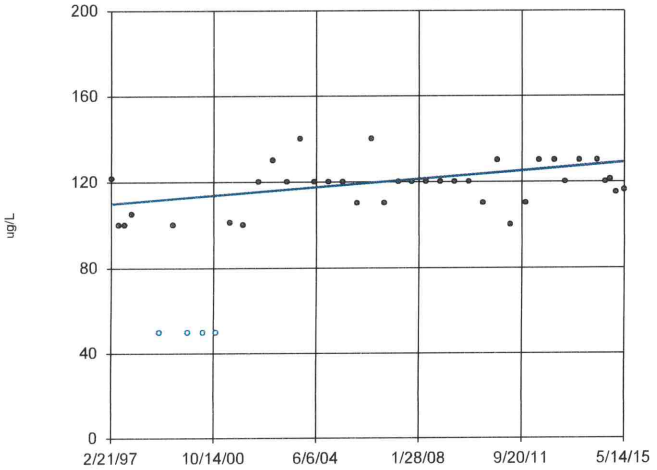
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 1.059 units per year.

Mann-Kendall statistic = 234 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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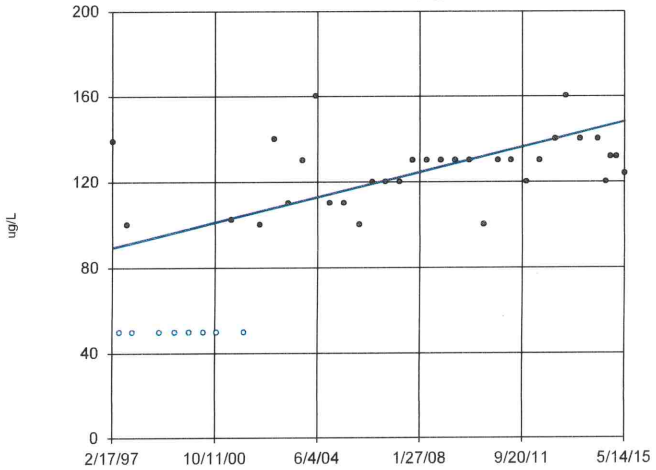
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 3.228 units per year.

Mann-Kendall statistic = 377 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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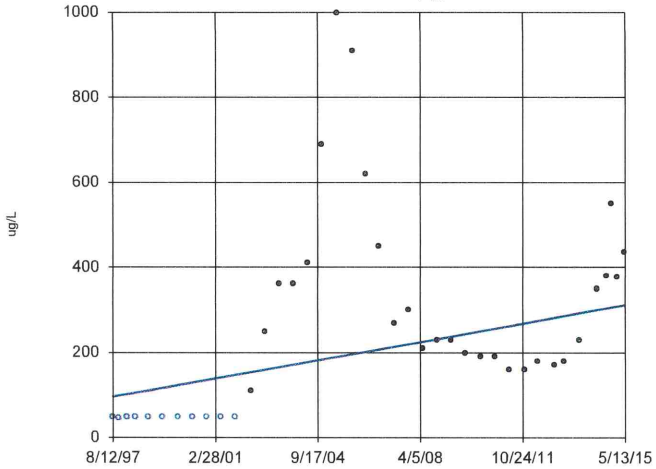
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 12.11 units per year.

Mann-Kendall statistic = 266 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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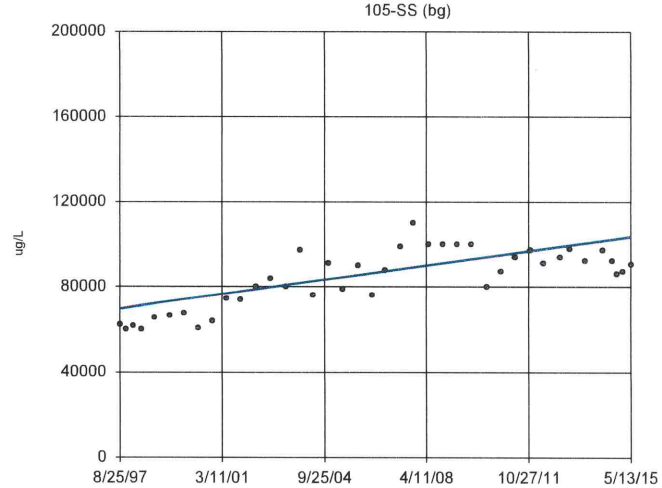
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 1908 units per year.

Mann-Kendall statistic = 403 critical = 201

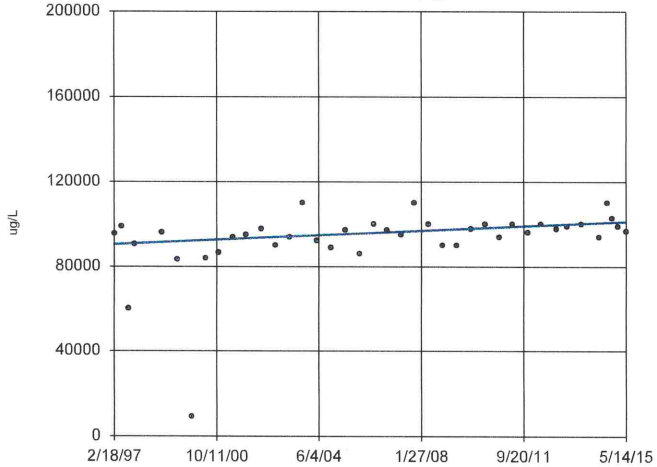
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 584.2 units per year.

Mann-Kendall statistic = 291 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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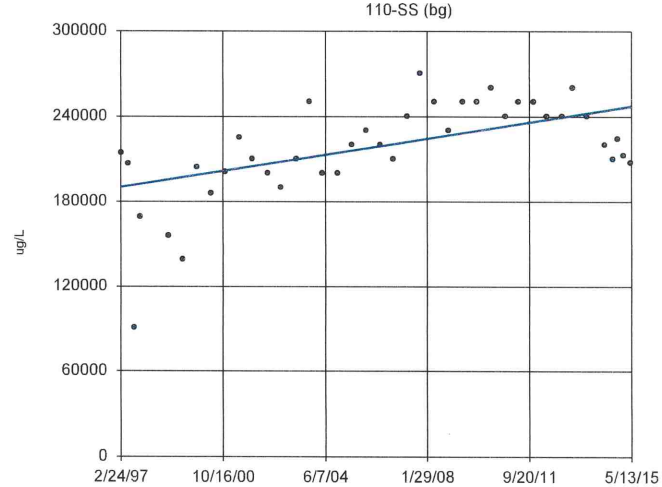
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 3124 units per year.

Mann-Kendall statistic = 313 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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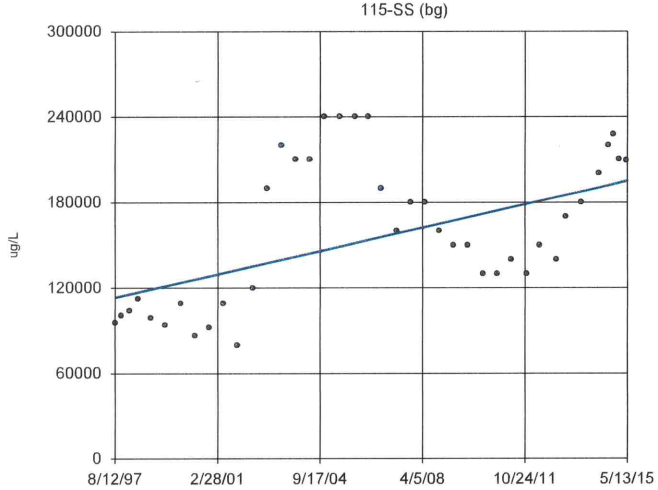
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 4611 units per year.

Mann-Kendall statistic = 259 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

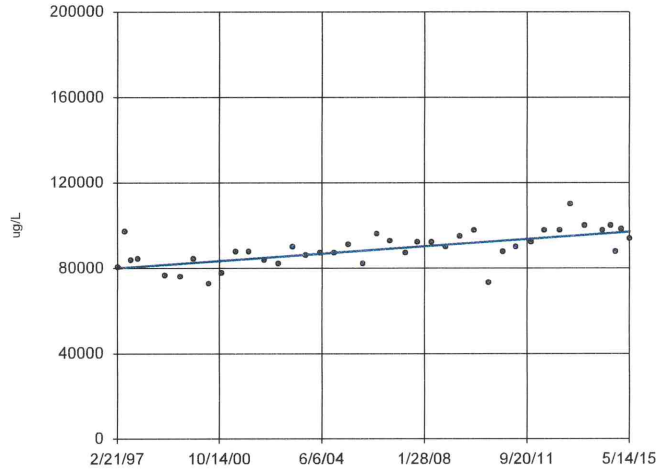
Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 941.3 units per year.

Mann-Kendall statistic = 409 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

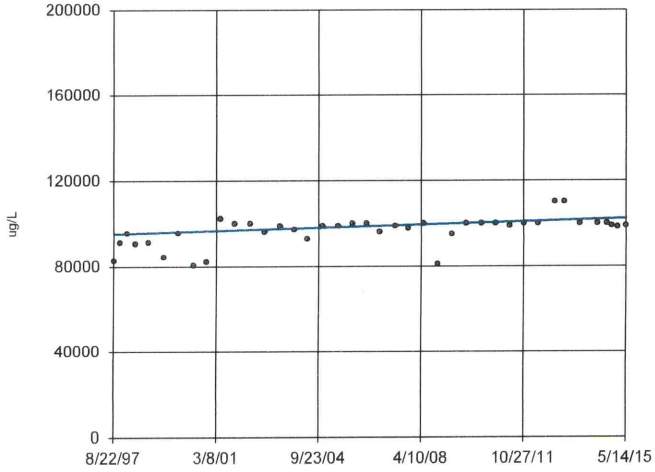
Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 391 units per year.

Mann-Kendall statistic = 295 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM

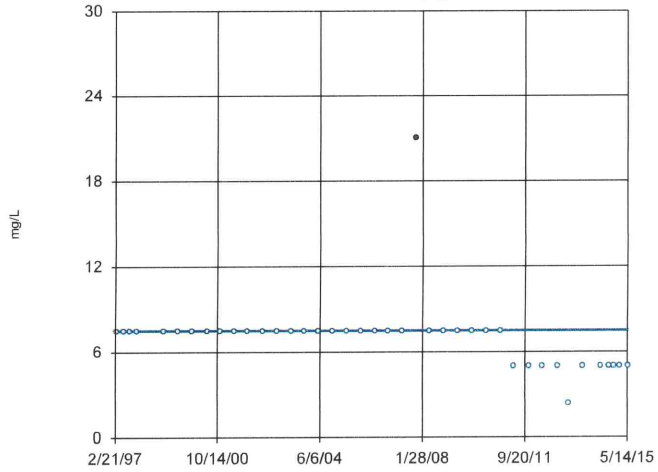
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -301 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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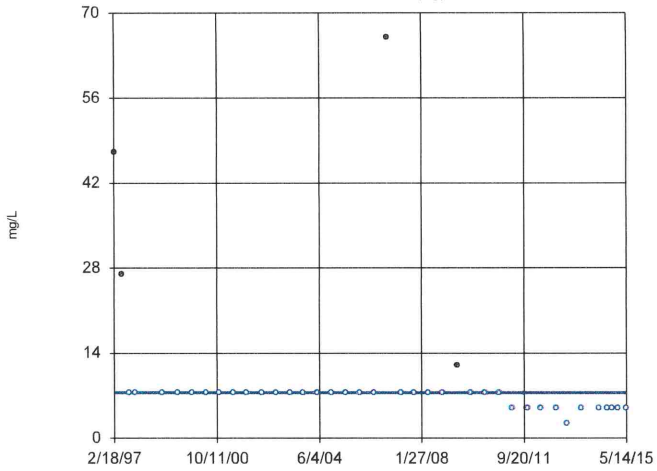
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -339
critical = -201

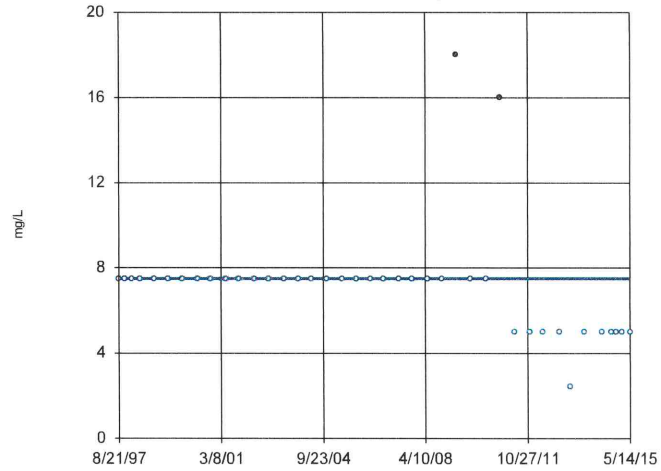
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -268
critical = -201

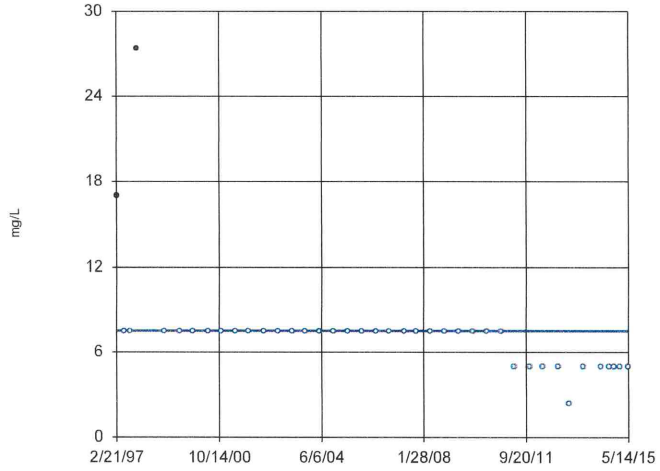
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -366
critical = -201

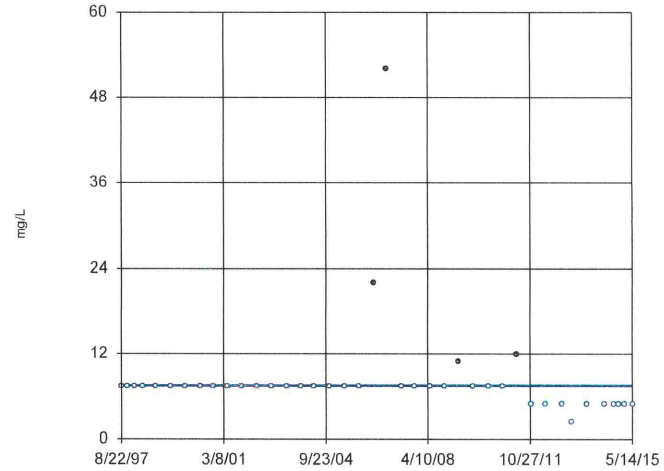
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -229
critical = -201

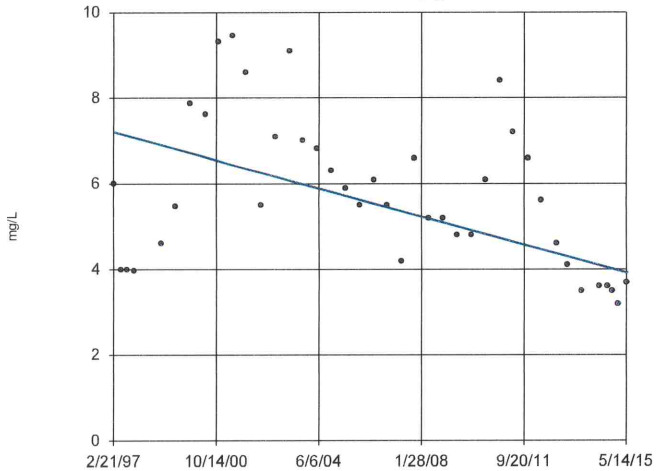
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -0.1805 units per year.

Mann-Kendall statistic = -260 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

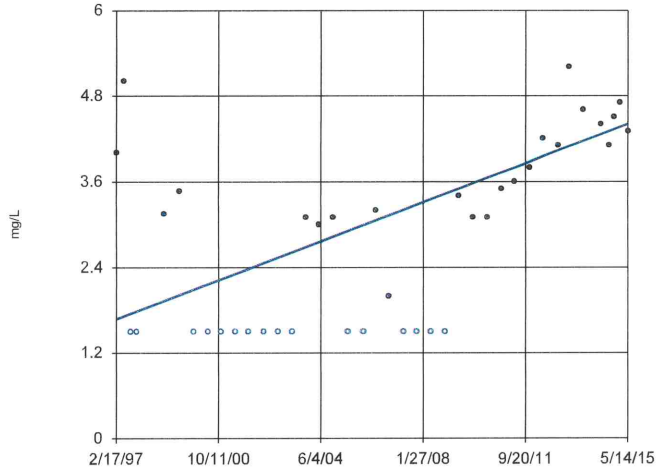
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 0.1496 units per year.

Mann-Kendall statistic = 335 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

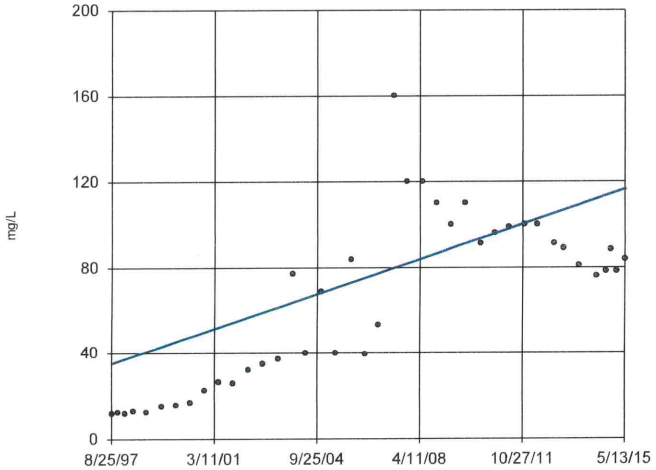
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 4.592 units per year.

Mann-Kendall statistic = 437 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

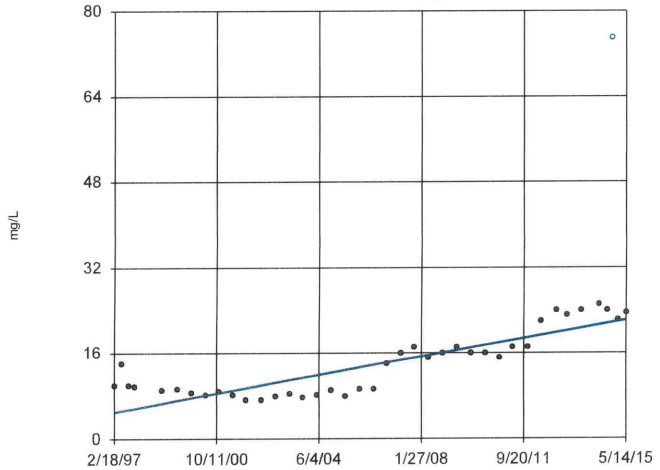
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0.9369 units per year.

Mann-Kendall statistic = 452 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

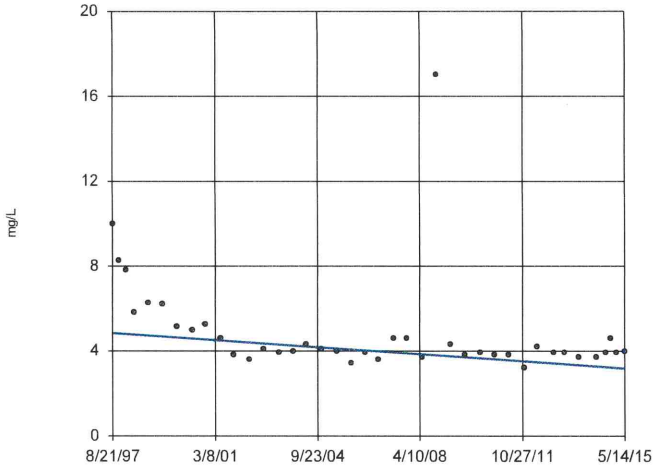
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -0.09448 units per year.

Mann-Kendall statistic = -319 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

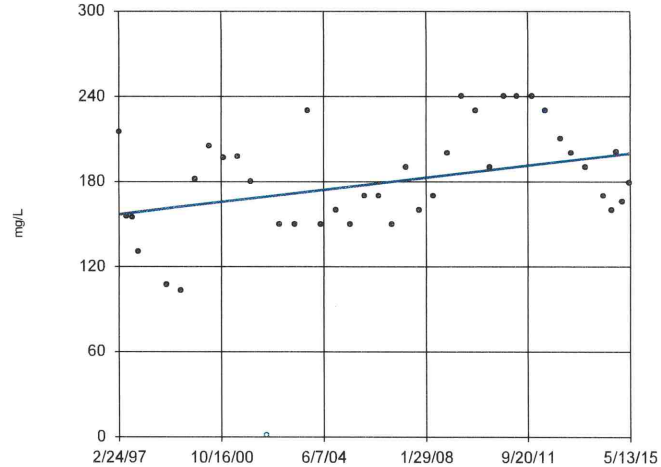
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 2.339 units per year.

Mann-Kendall statistic = 204 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

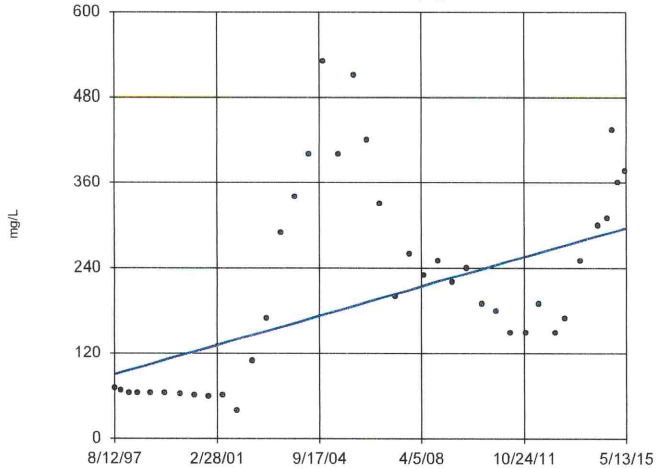
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 11.58 units per year.

Mann-Kendall statistic = 248 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

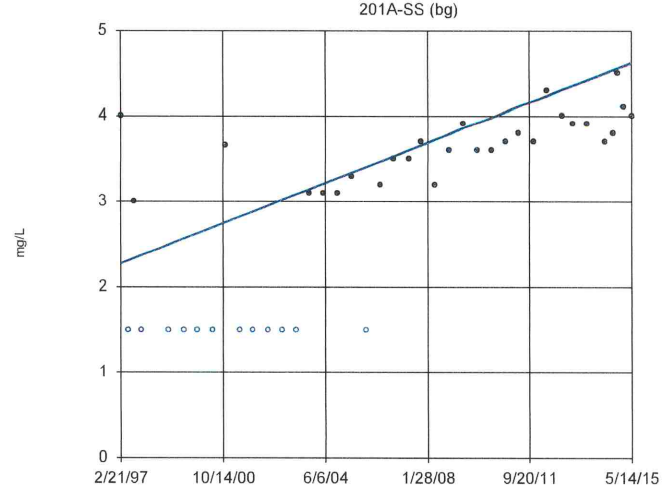
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0.1287 units per year.

Mann-Kendall statistic = 491 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

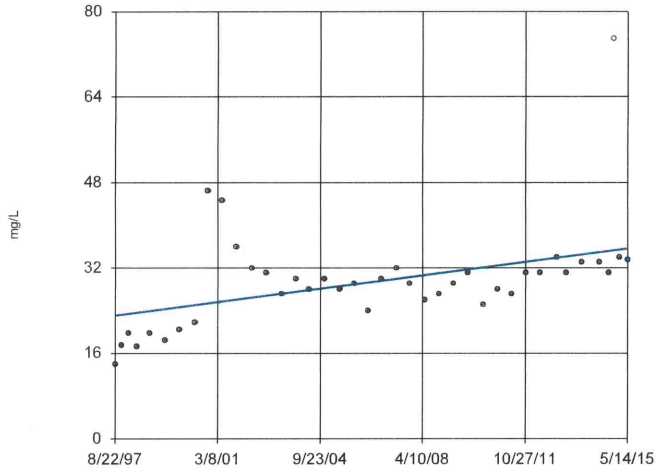
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0.7123 units per year.

Mann-Kendall statistic = 329
critical = 201

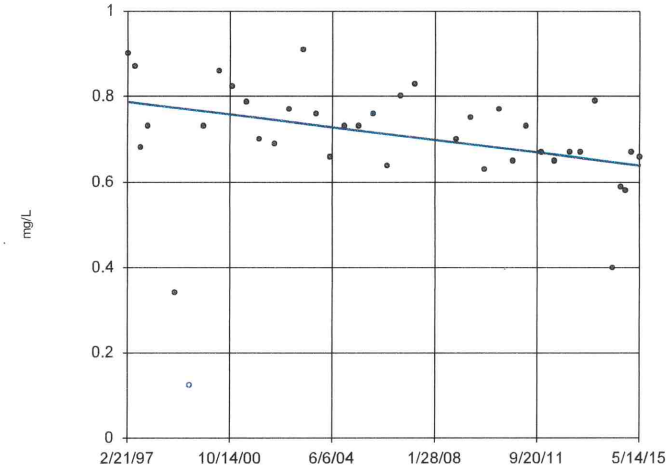
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 38

Slope = -0.008097 units per year.

Mann-Kendall statistic = -214
critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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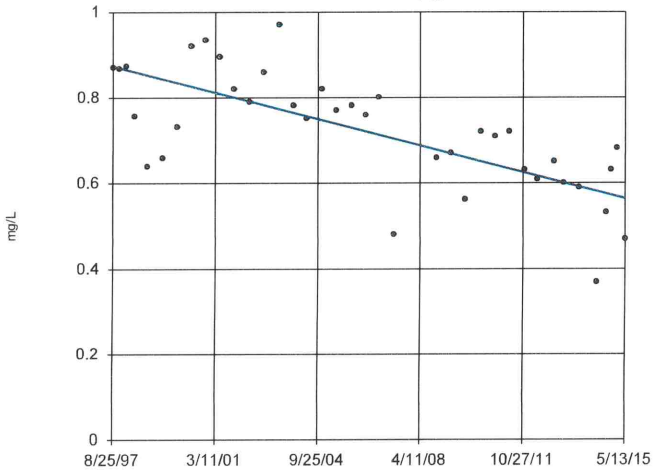
Sen's Slope Estimator

105-SS (bg)



n = 38

Slope = -0.01749 units per year.

Mann-Kendall statistic = -384
critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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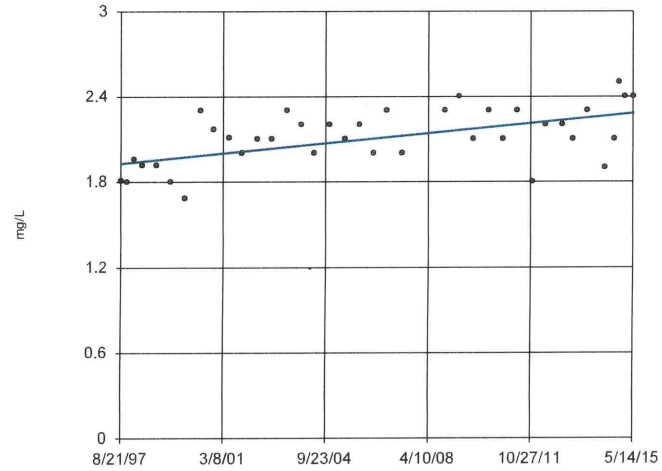
Sen's Slope Estimator

109-SS (bg)



n = 38

Slope = 0.0198 units per year.

Mann-Kendall statistic = 264
critical = 186

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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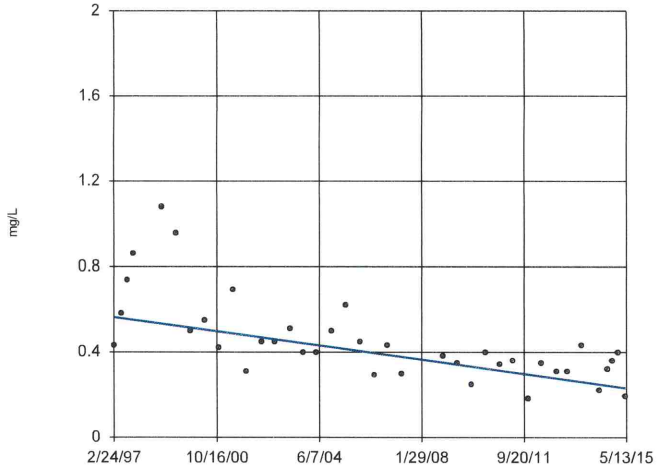
Sen's Slope Estimator

110-SS (bg)



n = 38

Slope = -0.01819 units per year.

Mann-Kendall statistic = -375 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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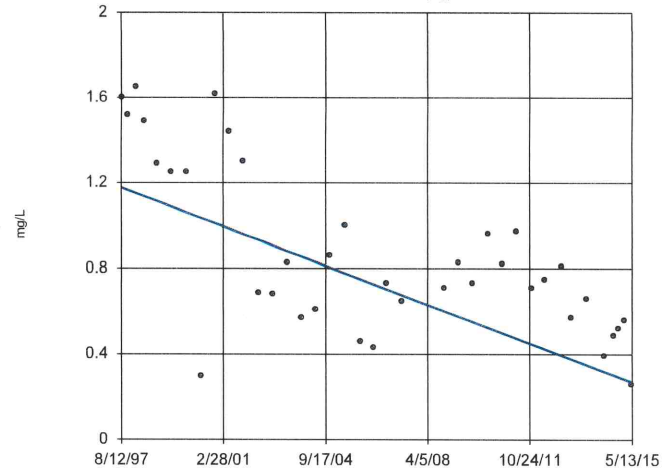
Sen's Slope Estimator

115-SS (bg)



n = 38

Slope = -0.05116 units per year.

Mann-Kendall statistic = -340 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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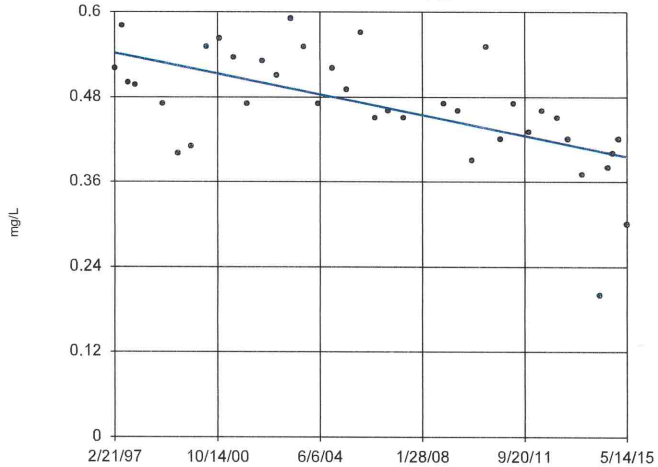
Sen's Slope Estimator

201A-SS (bg)



n = 38

Slope = -0.008016 units per year.

Mann-Kendall statistic = -341 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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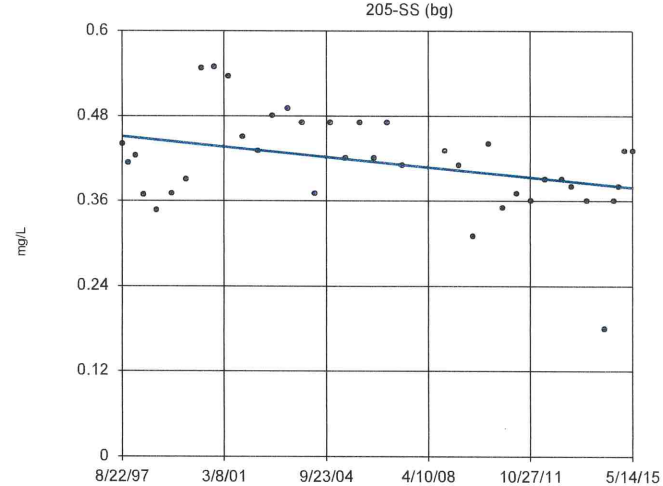
Sen's Slope Estimator

205-SS (bg)



n = 38

Slope = -0.004092 units per year.

Mann-Kendall statistic = -188 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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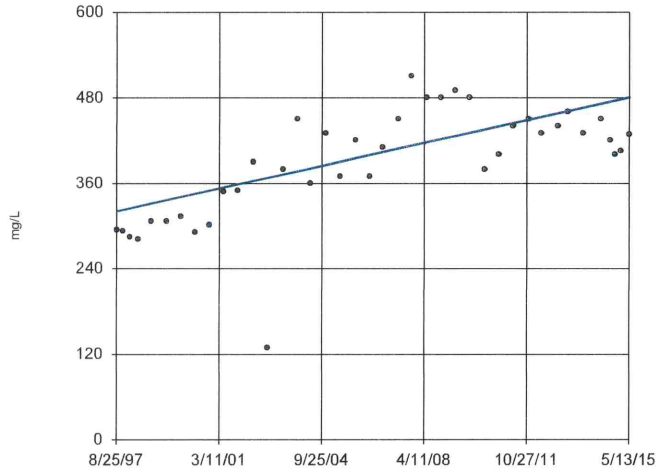
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 9.008 units per year.

Mann-Kendall statistic = 387 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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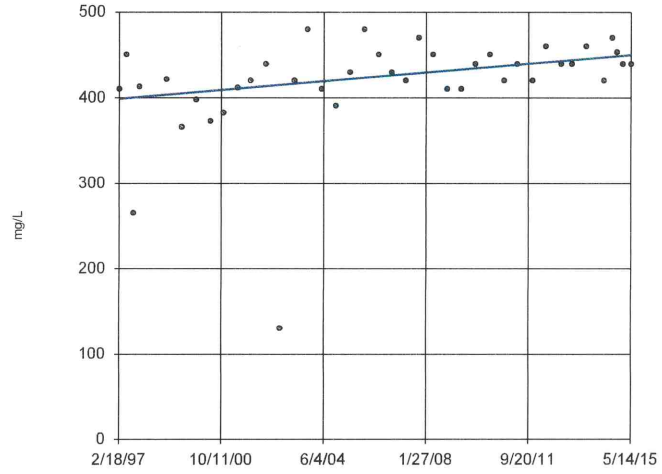
Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 2.804 units per year.

Mann-Kendall statistic = 278 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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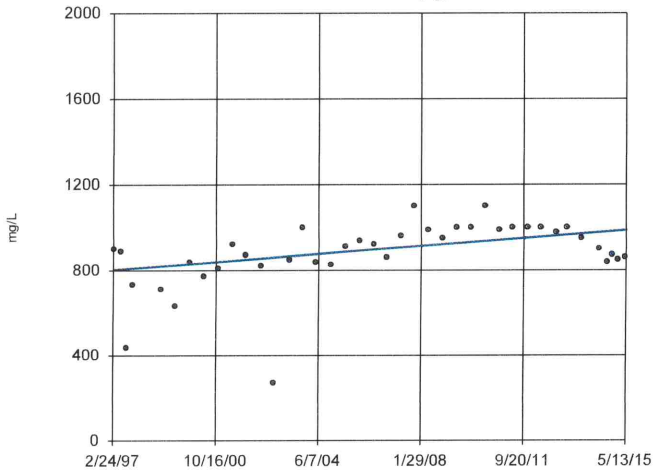
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 10.01 units per year.

Mann-Kendall statistic = 287 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

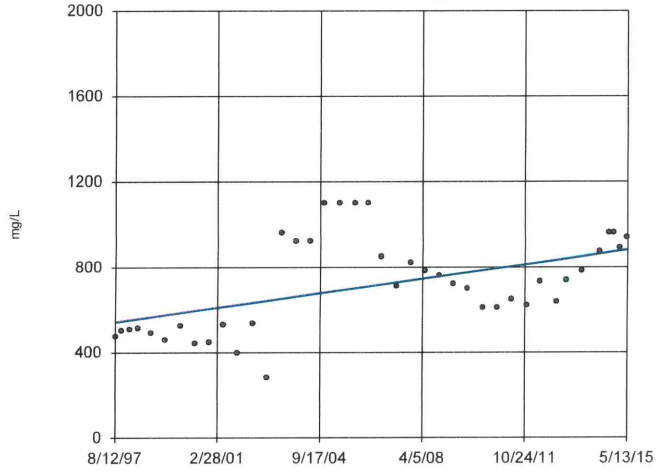
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 18.87 units per year.

Mann-Kendall statistic = 276 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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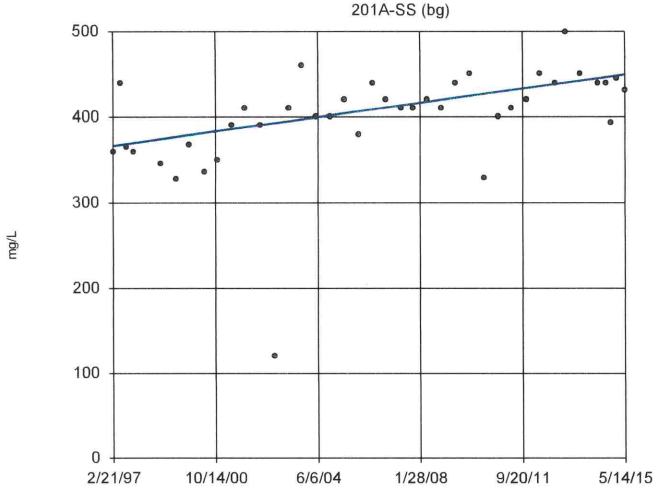
Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 4.532 units per year.

Mann-Kendall statistic = 349 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

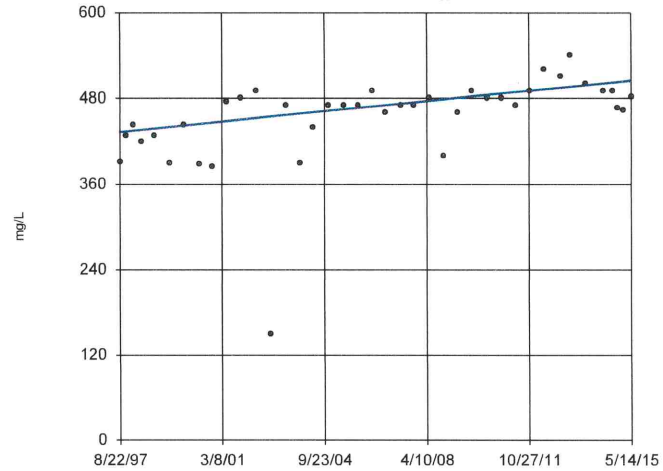
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 3.993 units per year.

Mann-Kendall statistic = 352 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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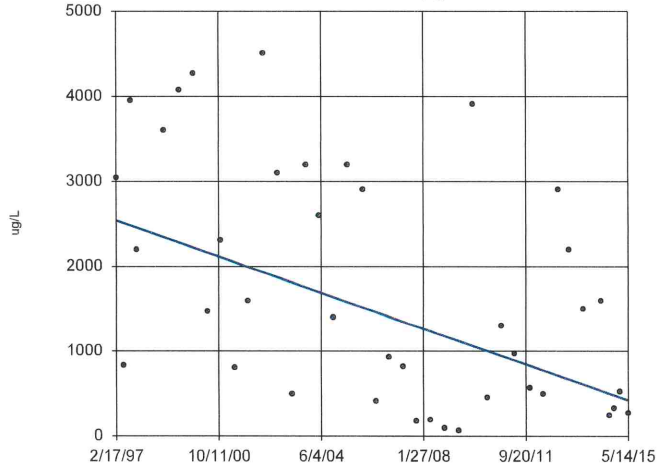
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -116.2 units per year.

Mann-Kendall statistic = -276 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

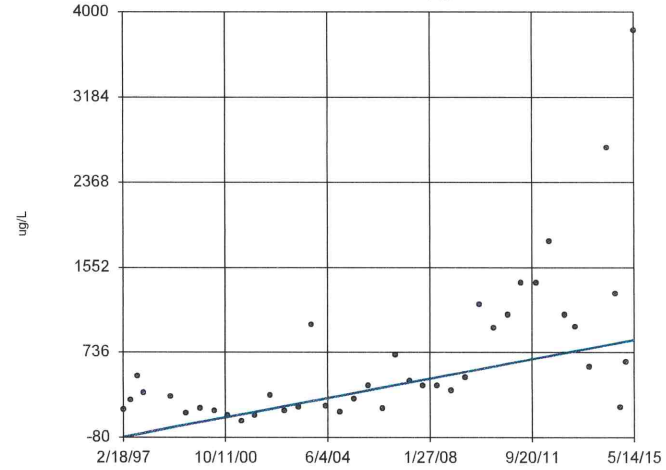
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 51.01 units per year.

Mann-Kendall statistic = 414 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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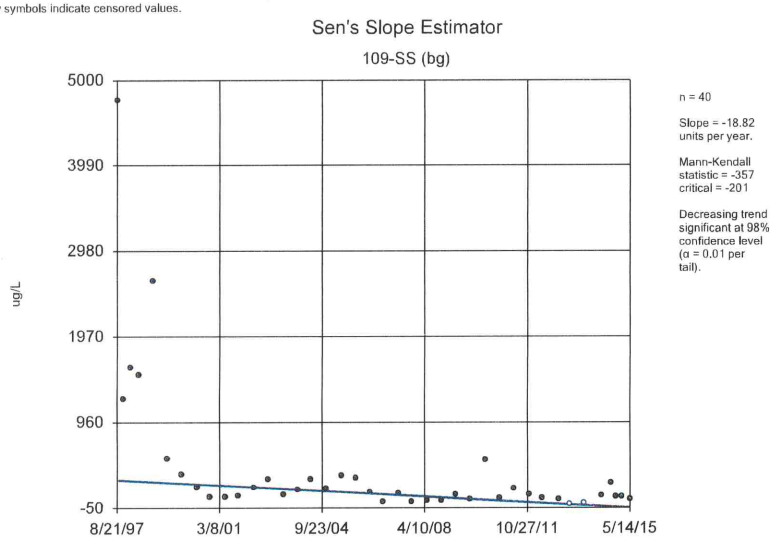
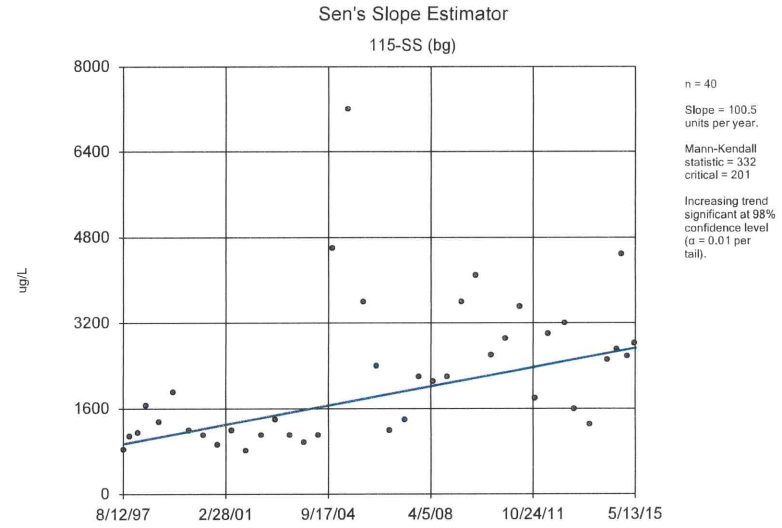
Hollow symbols indicate censored values.



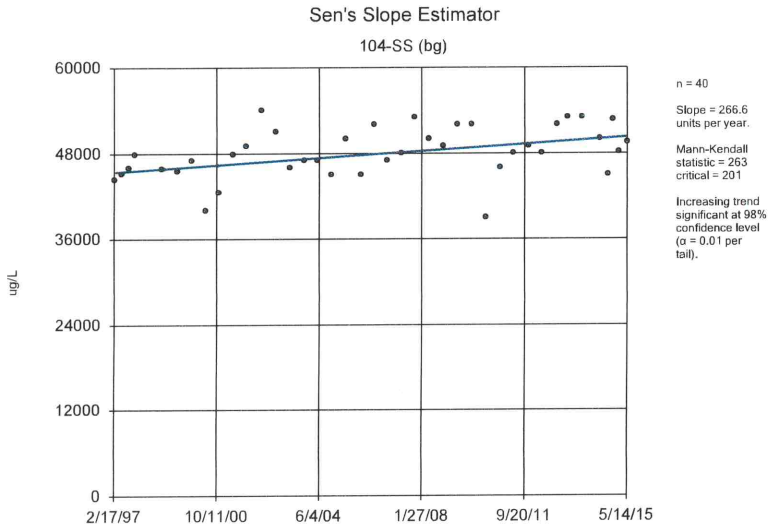
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG



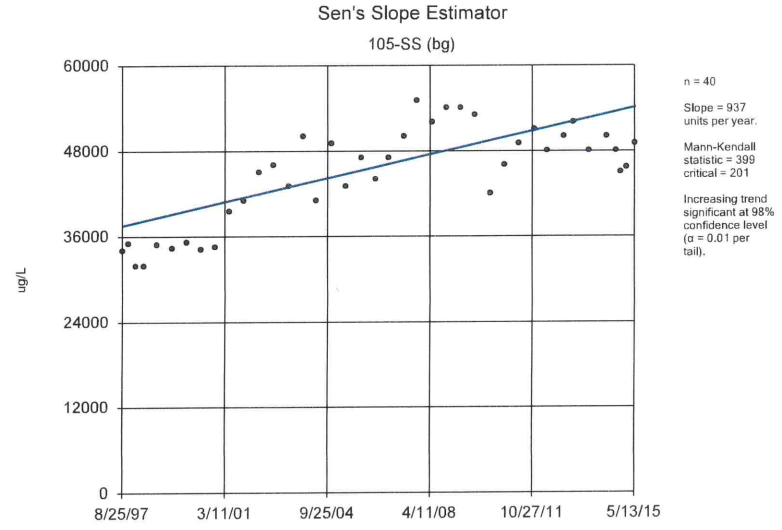
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG



Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

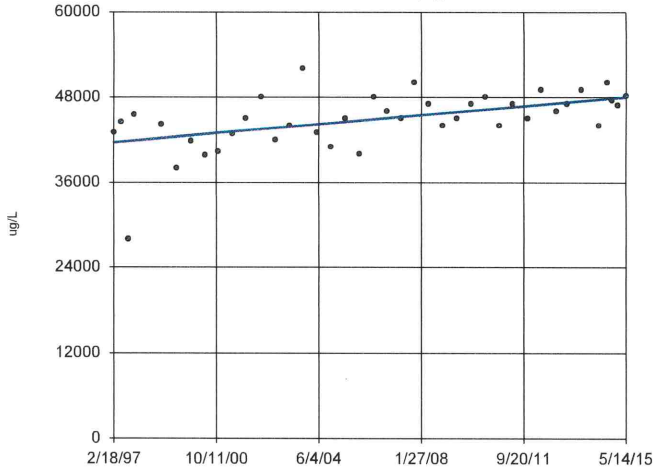


Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 346.9 units per year.

Mann-Kendall statistic = 326 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

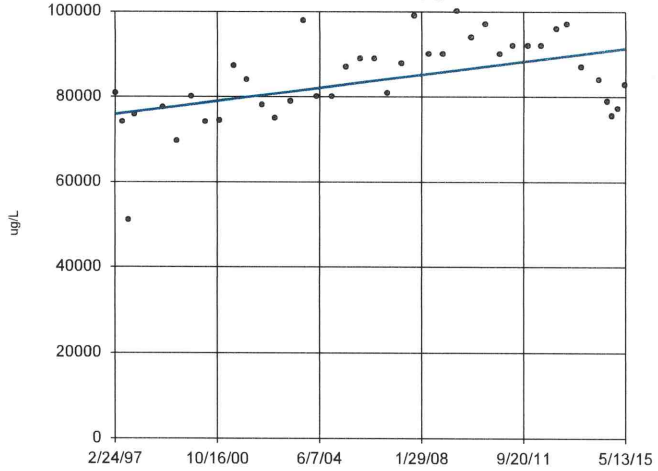
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 851.4 units per year.

Mann-Kendall statistic = 291 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

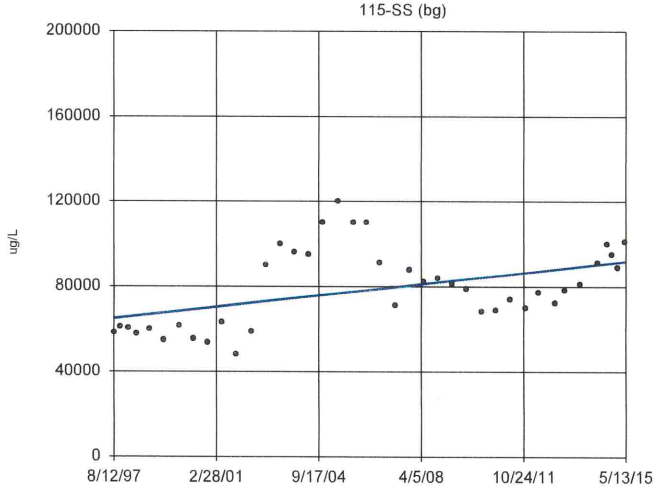
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 1502 units per year.

Mann-Kendall statistic = 244 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

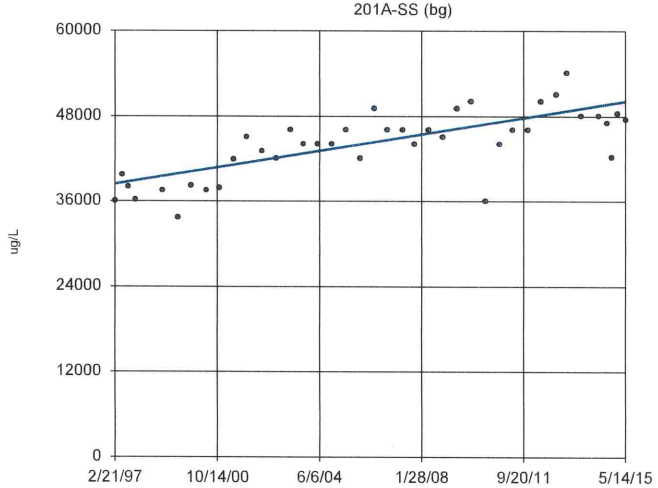
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 642.5 units per year.

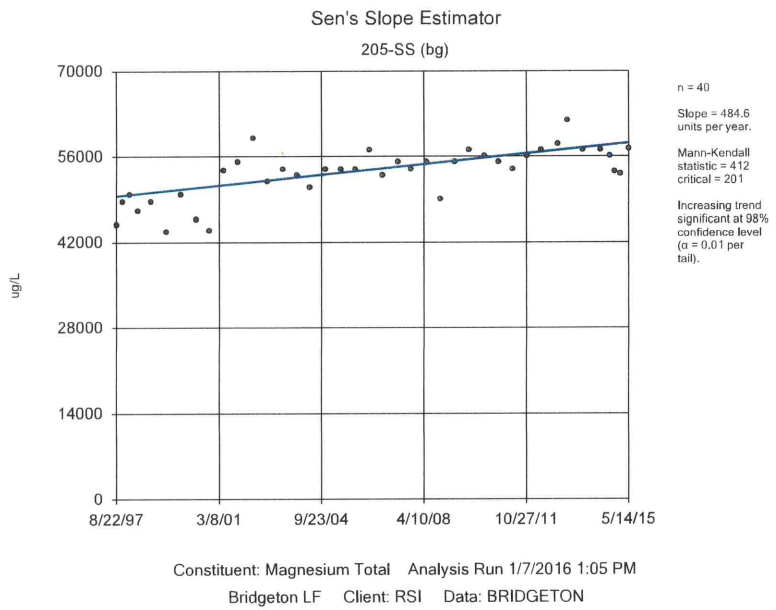
Mann-Kendall statistic = 444 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

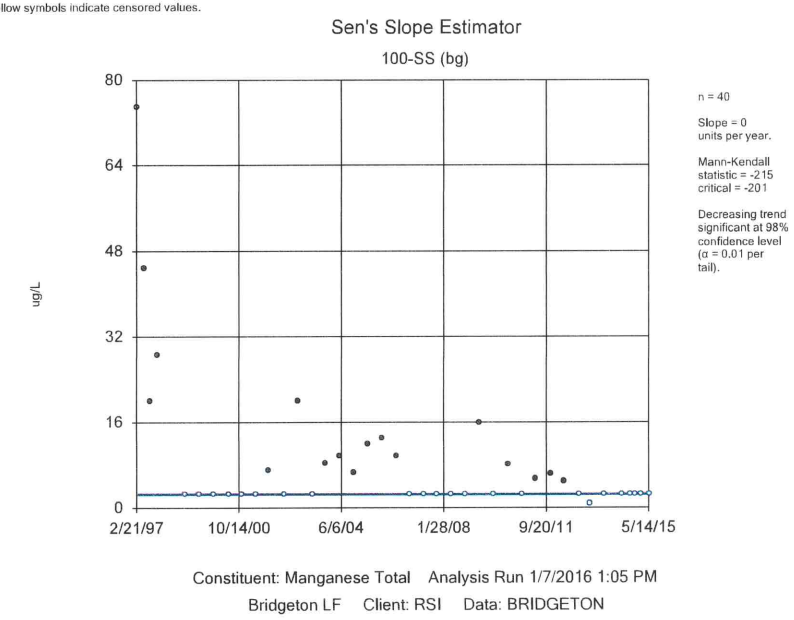
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



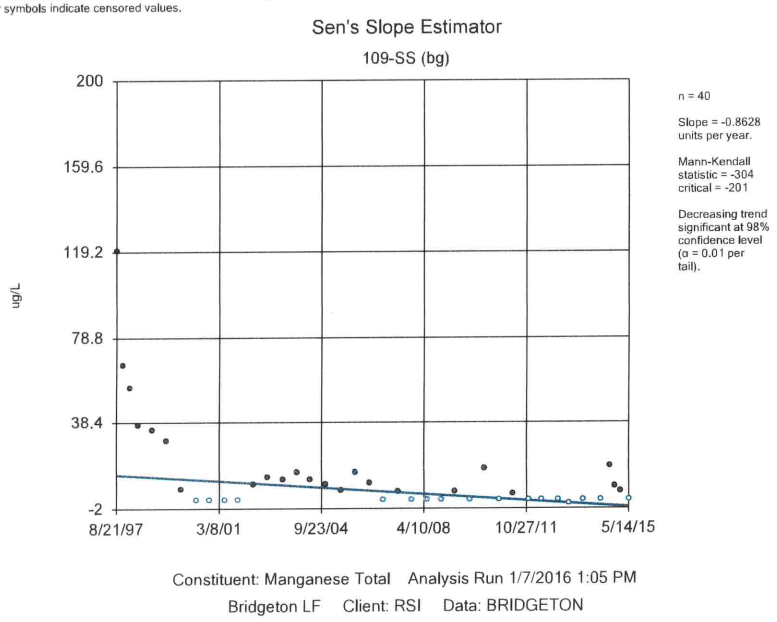
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



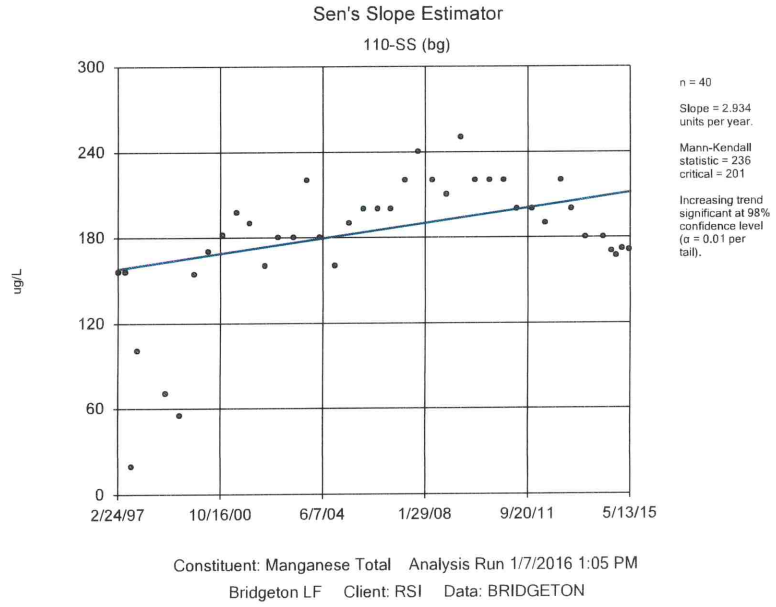
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

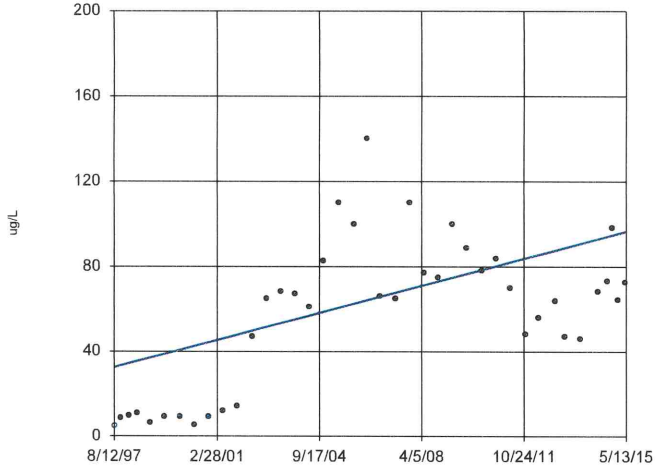


Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 3.607 units per year.

Mann-Kendall statistic = 301
critical = 201

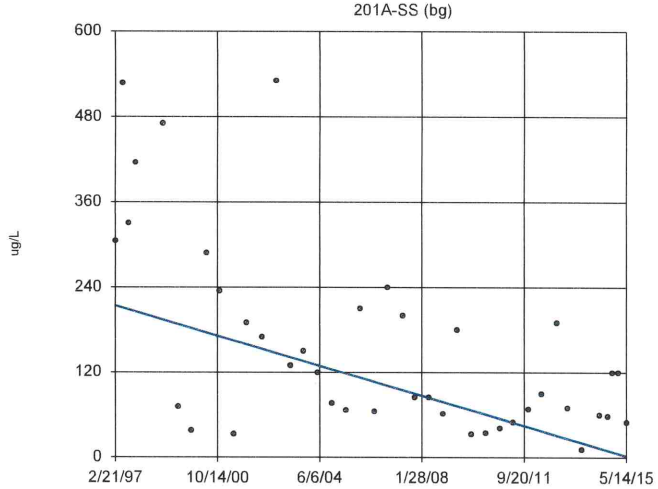
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -11.65 units per year.

Mann-Kendall statistic = -318
critical = -201

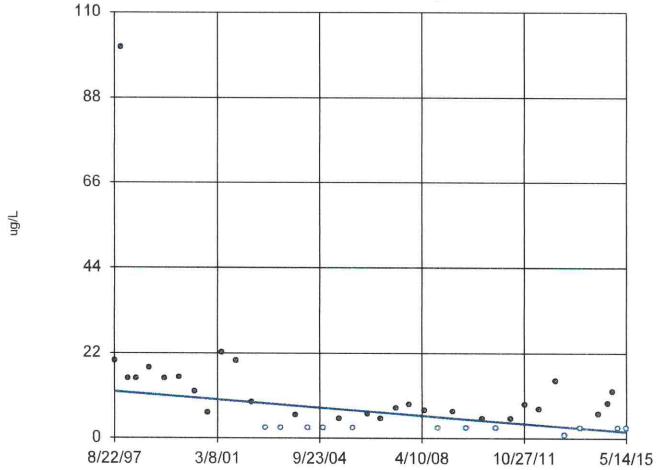
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -0.5884 units per year.

Mann-Kendall statistic = -264
critical = -201

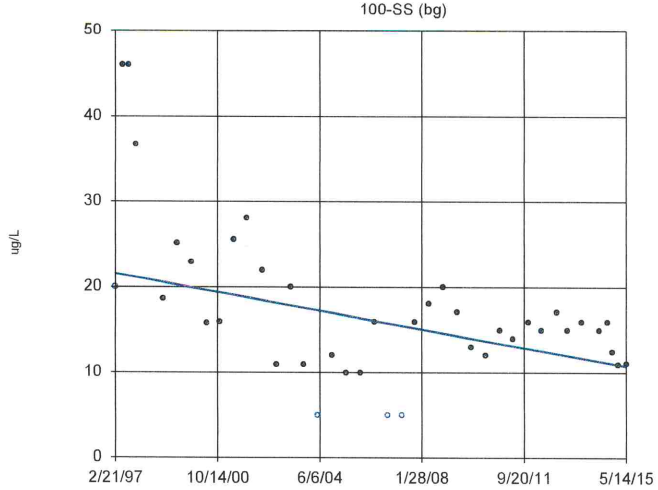
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -0.5913 units per year.

Mann-Kendall statistic = -261
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nickel Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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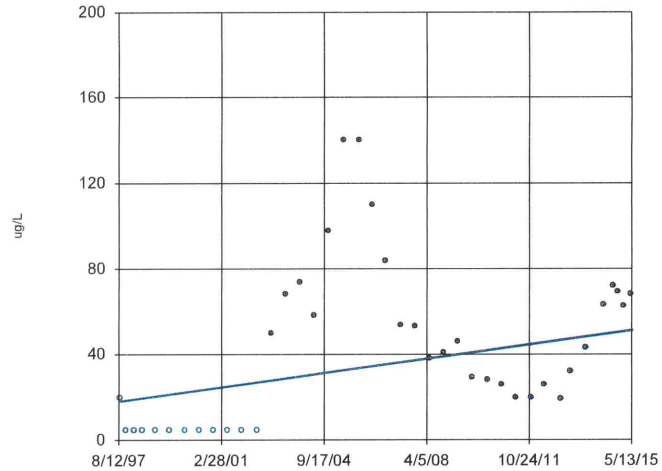
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 1.87 units per year.

Mann-Kendall statistic = 232 critical = 201

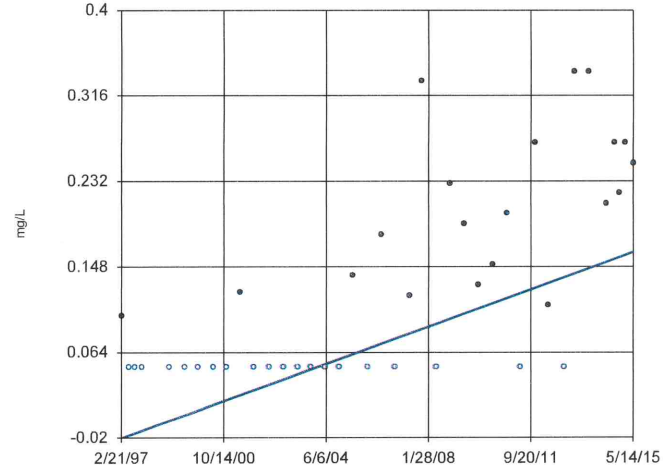
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nickel Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0.01 units per year.

Mann-Kendall statistic = 364 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nitrate/Nitrite Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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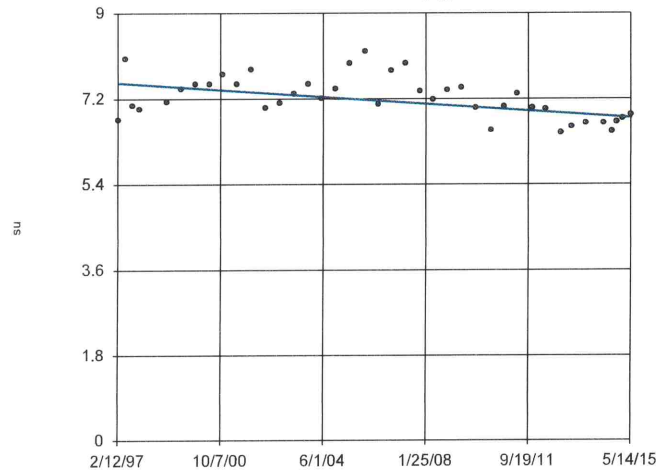
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -0.0405 units per year.

Mann-Kendall statistic = -277 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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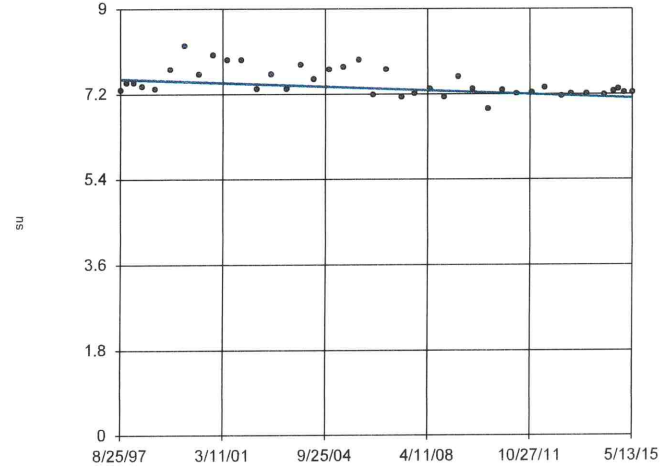
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.02251 units per year.

Mann-Kendall statistic = -283 critical = -201

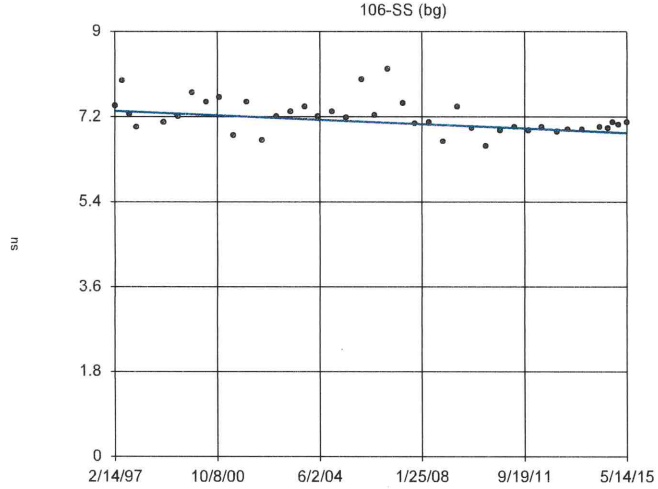
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = -0.02559 units per year.

Mann-Kendall statistic = -255 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

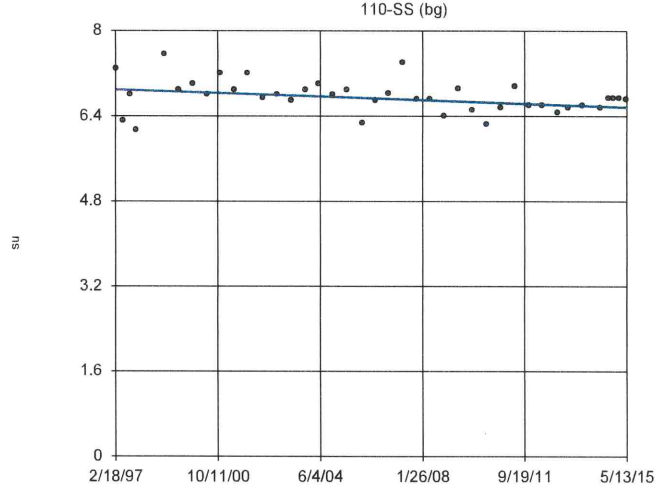
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = -0.01825 units per year.

Mann-Kendall statistic = -207 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

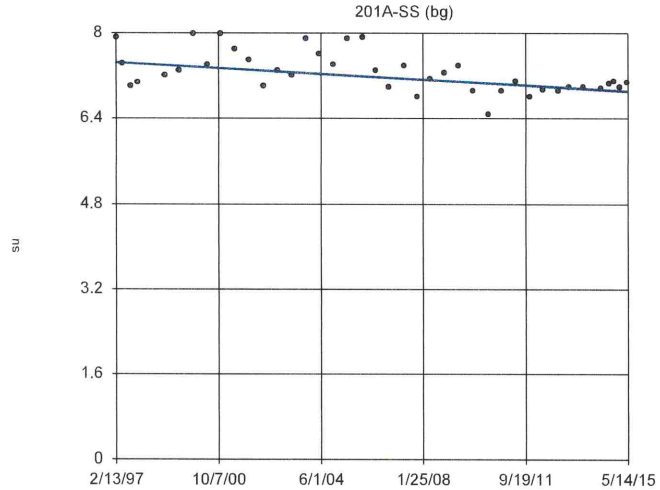
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -0.0296 units per year.

Mann-Kendall statistic = -300 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

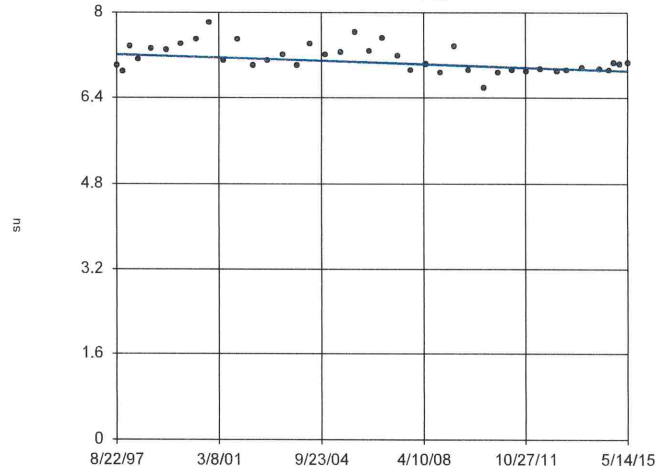
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -0.01733 units per year.

Mann-Kendall statistic = -228 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

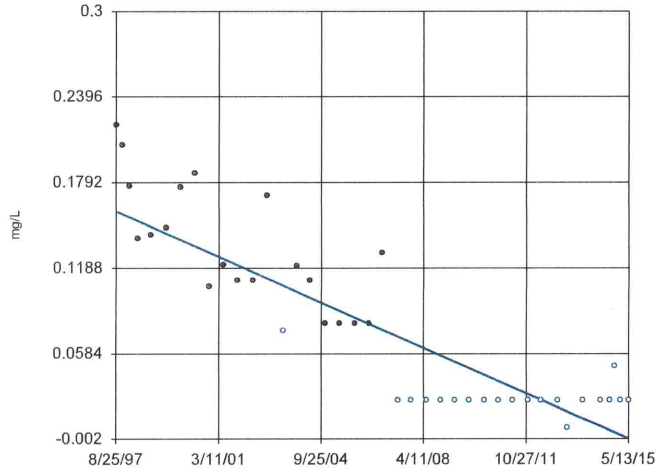
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.009051 units per year.

Mann-Kendall statistic = -509 critical = -201

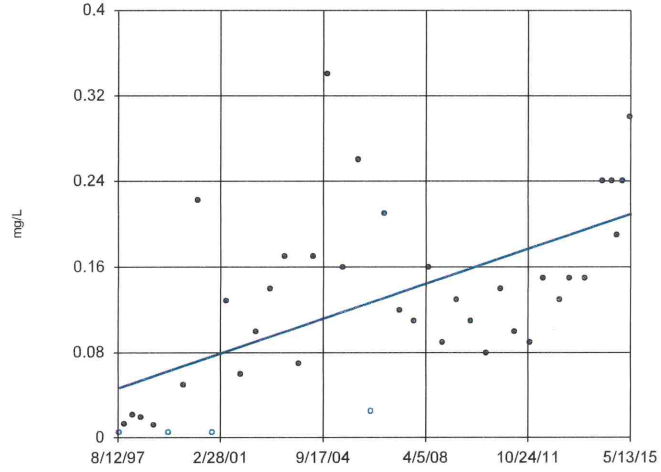
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 0.009173 units per year.

Mann-Kendall statistic = 344 critical = 201

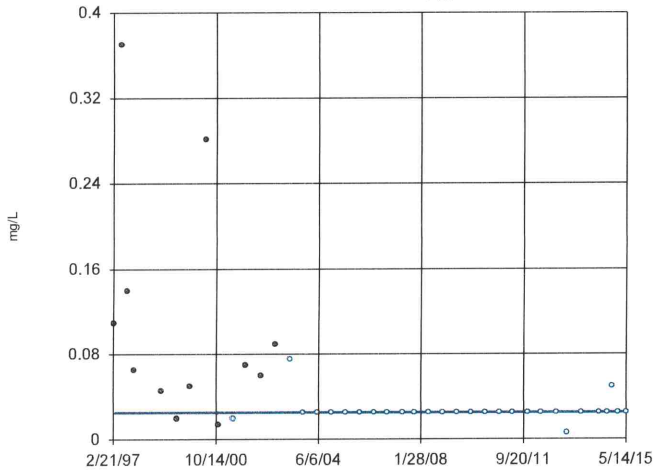
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -217 critical = -201

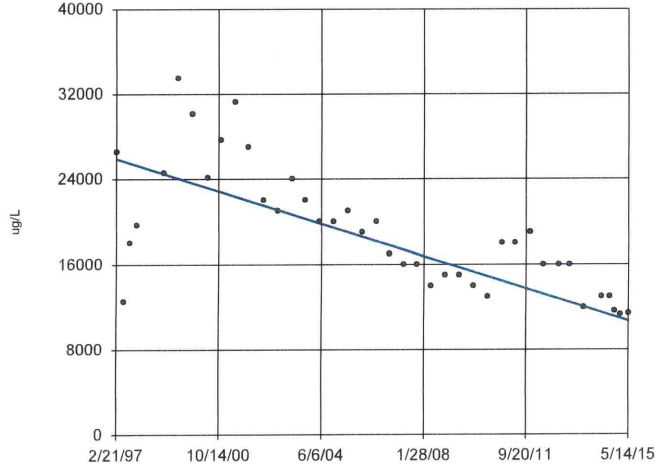
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -831.9 units per year.

Mann-Kendall statistic = -488 critical = -201

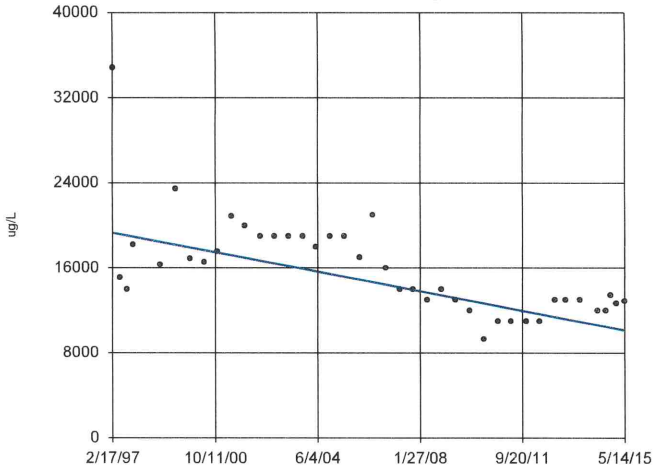
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -502.2 units per year.

Mann-Kendall statistic = -400 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

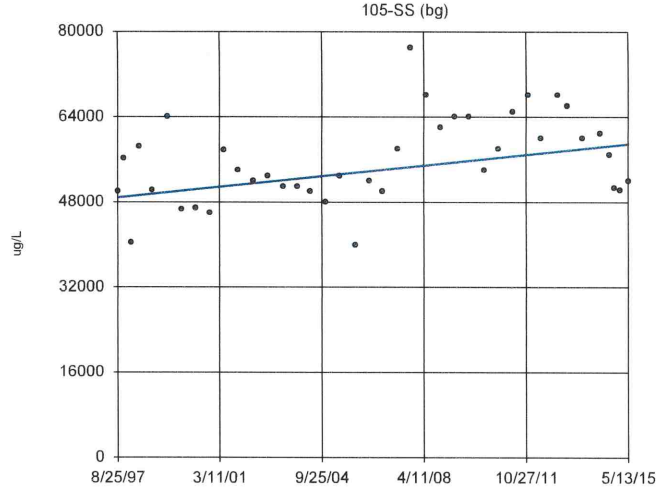
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 571 units per year.

Mann-Kendall statistic = 215 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

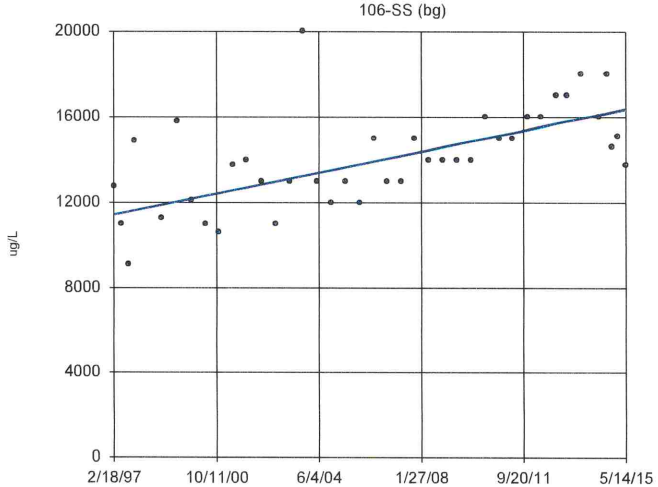
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 269.6 units per year.

Mann-Kendall statistic = 394 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

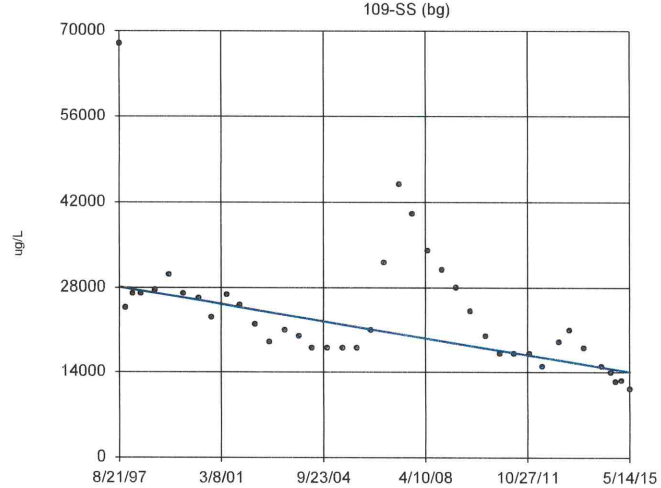
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -794.1 units per year.

Mann-Kendall statistic = -400 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

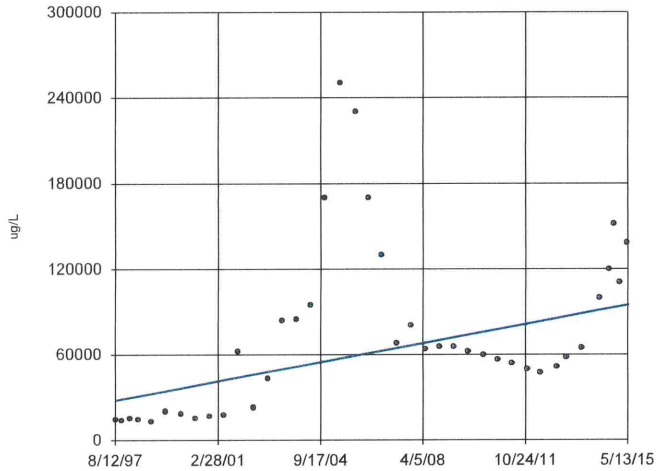
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 3767 units per year.

Mann-Kendall statistic = 297 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

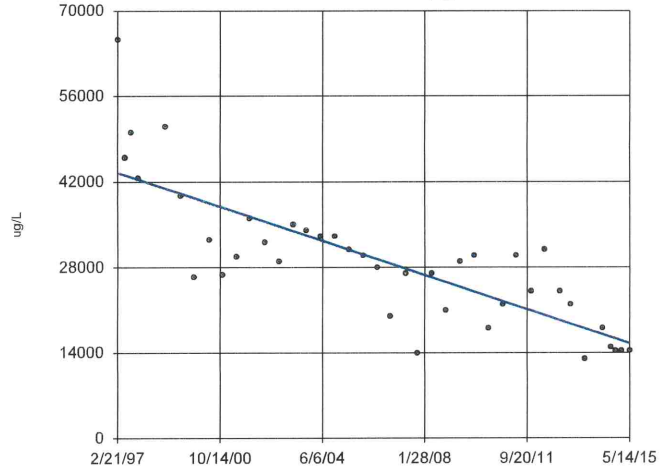
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -1529 units per year.

Mann-Kendall statistic = -493 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

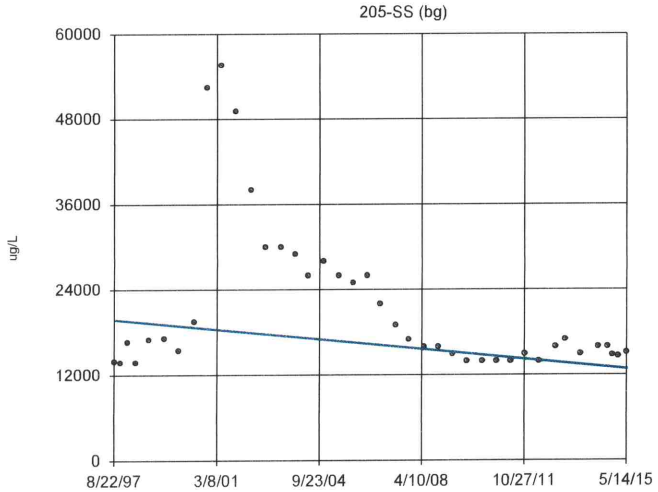
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -392.5 units per year.

Mann-Kendall statistic = -234 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

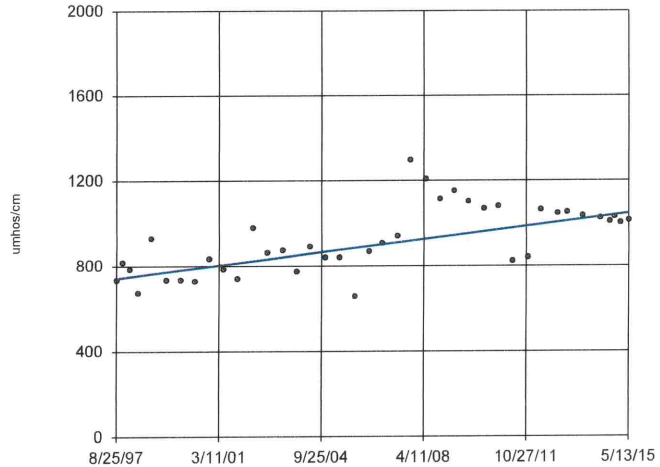
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 17.15 units per year.

Mann-Kendall statistic = 333 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

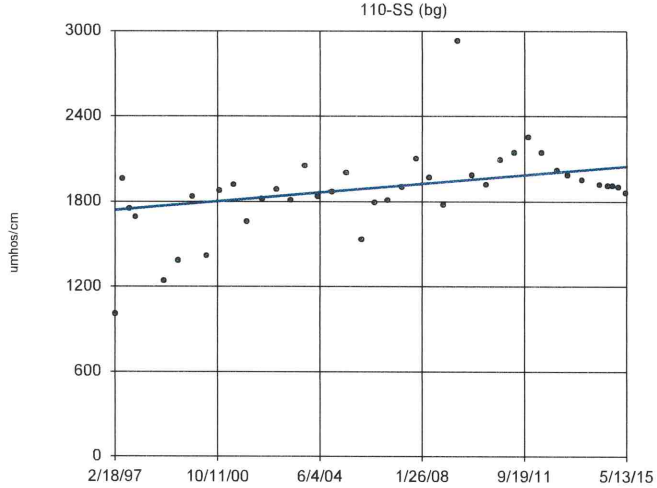
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 16.95 units per year.

Mann-Kendall statistic = 292 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

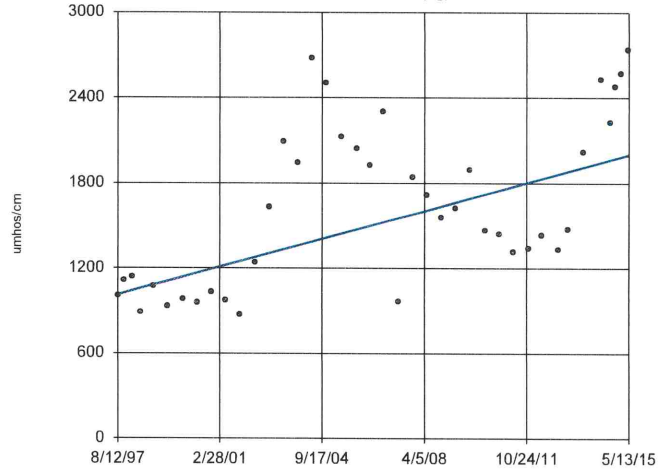
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 55.65 units per year.

Mann-Kendall statistic = 298 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

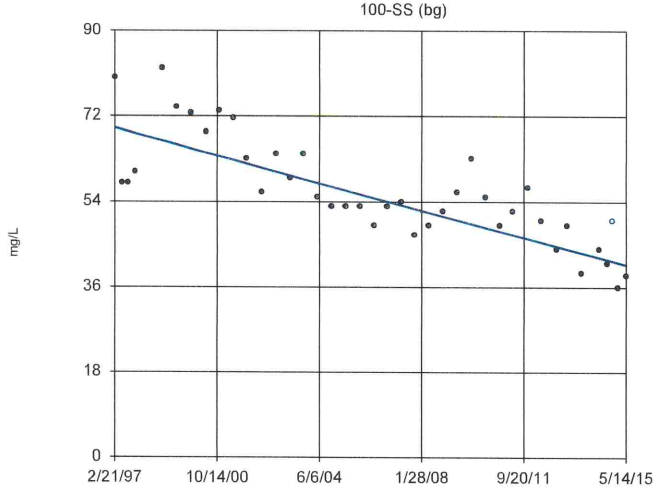
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -1.575 units per year.

Mann-Kendall statistic = -512 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

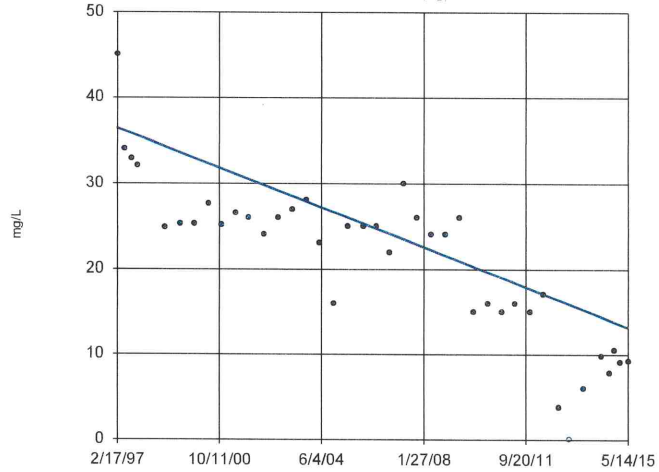
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -1.275 units per year.

Mann-Kendall statistic = -505 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

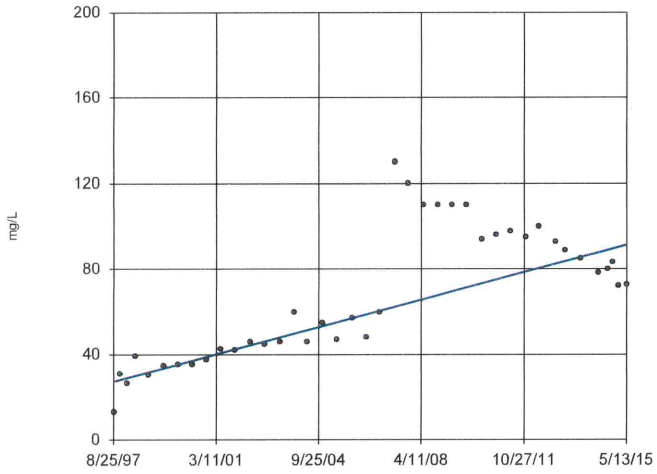
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 3.61 units per year.

Mann-Kendall statistic = 428 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

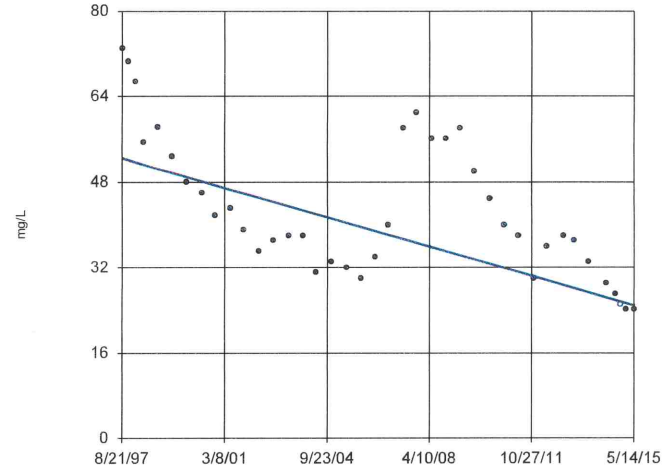
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -1.556 units per year.

Mann-Kendall statistic = -397 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

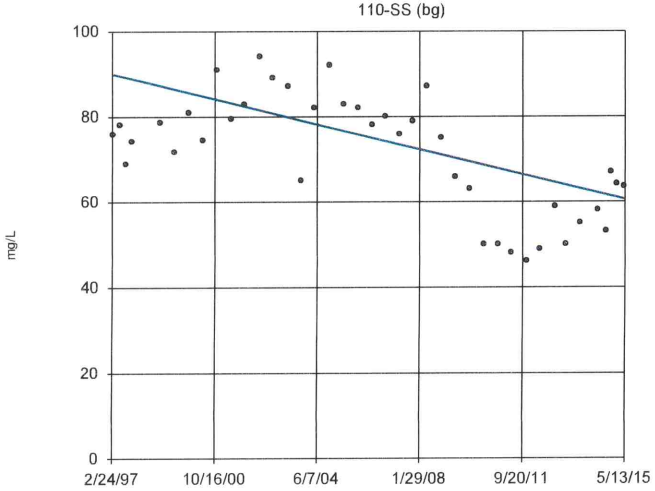
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = -1.606 units per year.

Mann-Kendall statistic = -300 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

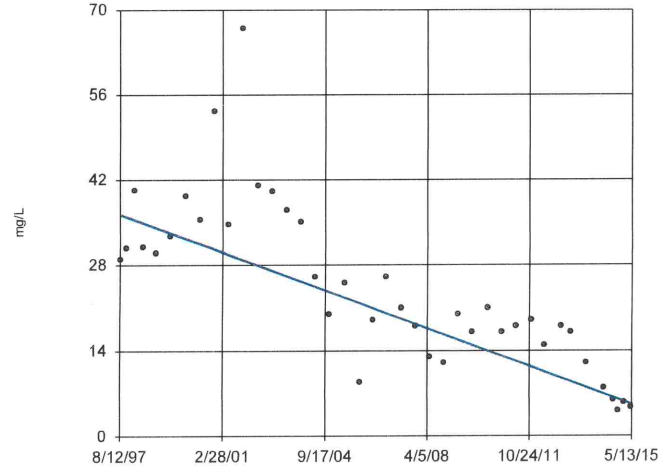
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = -1.746 units per year.

Mann-Kendall statistic = -505 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

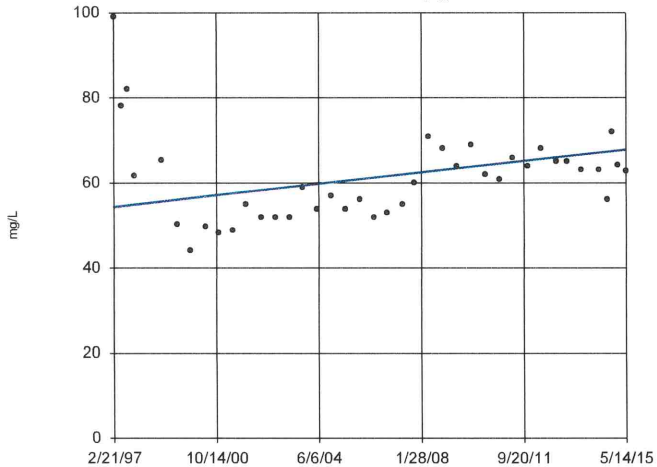
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0.7361 units per year.

Mann-Kendall statistic = 205 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

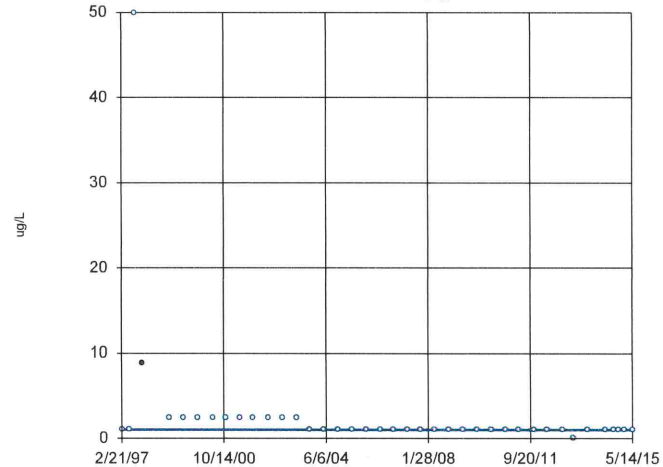
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -324 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

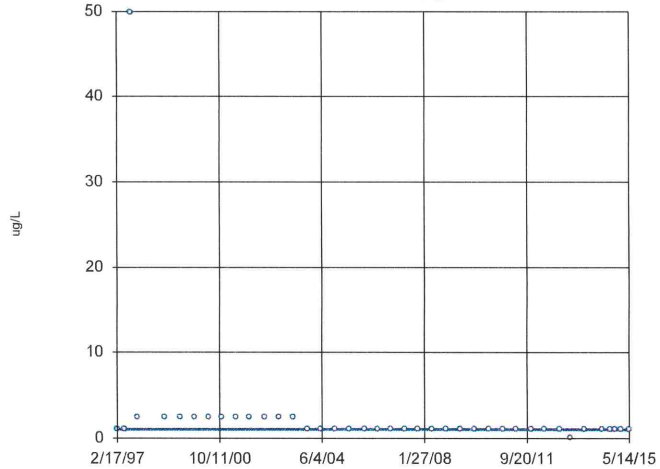
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -314 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

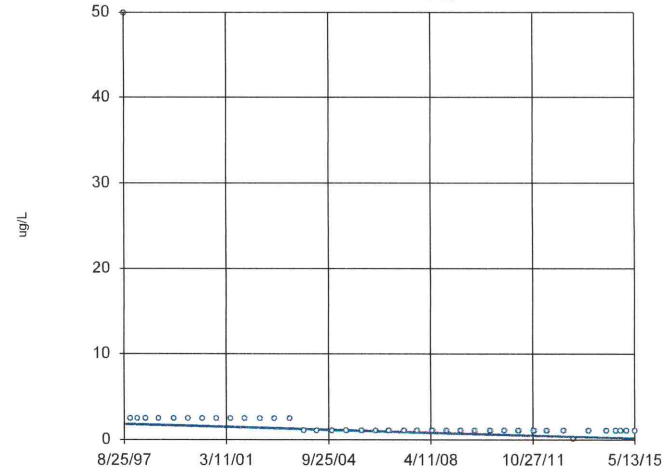
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.08868 units per year.

Mann-Kendall statistic = -390 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

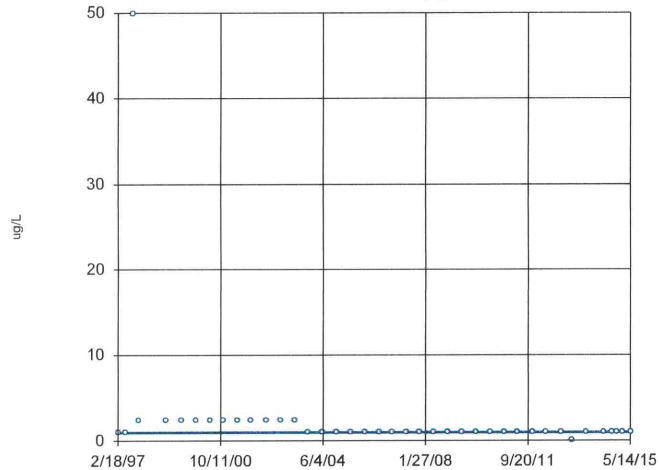
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -314
critical = -201

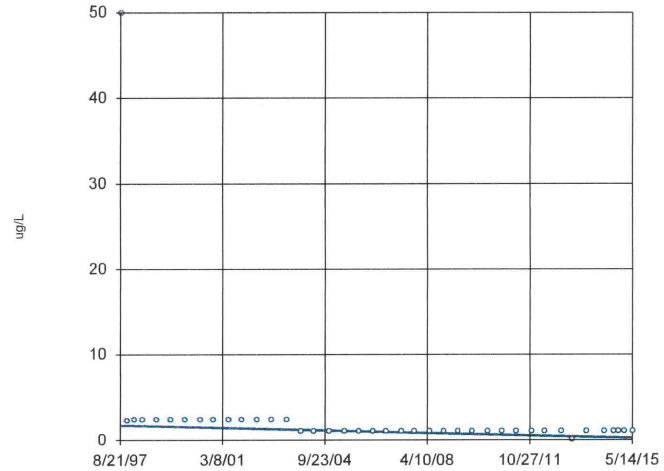
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -0.08239
units per year.

Mann-Kendall
statistic = -378
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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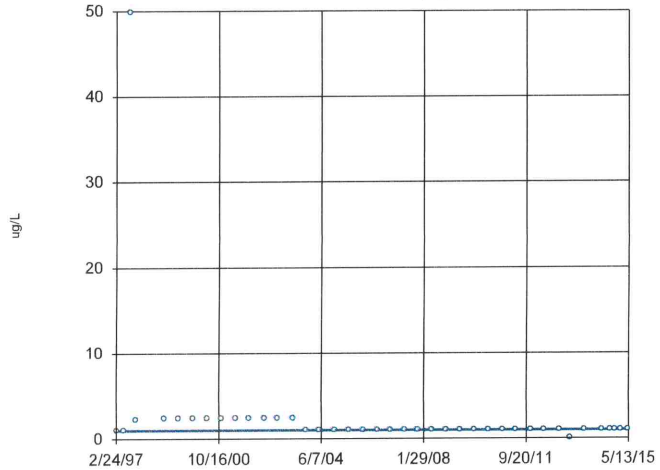
Hollow symbols indicate censored values.

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -304
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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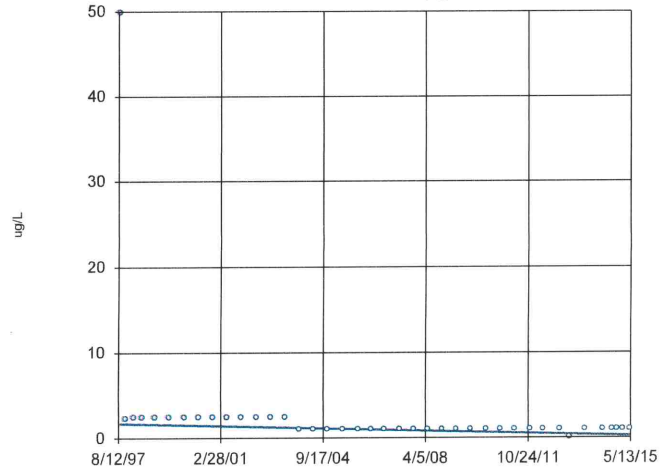
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = -0.08238
units per year.

Mann-Kendall
statistic = -378
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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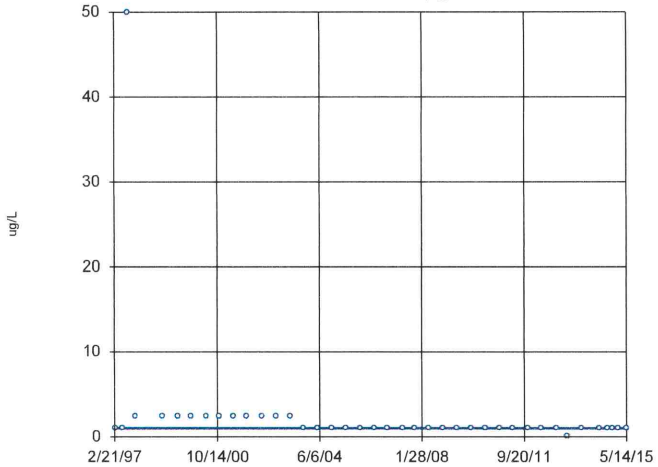
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -314
critical = -201

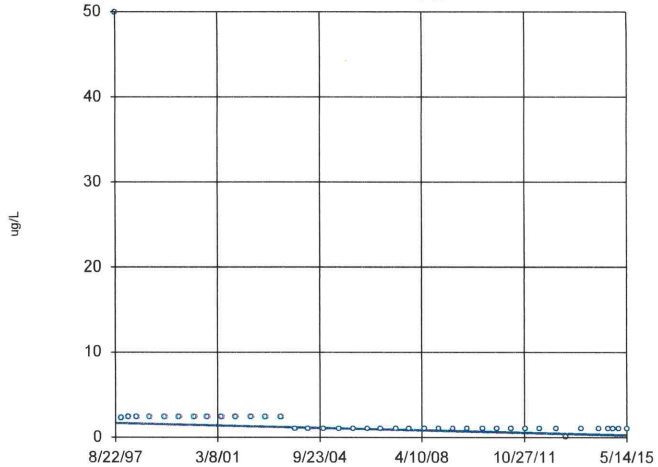
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -0.08234
units per year.

Mann-Kendall
statistic = -378
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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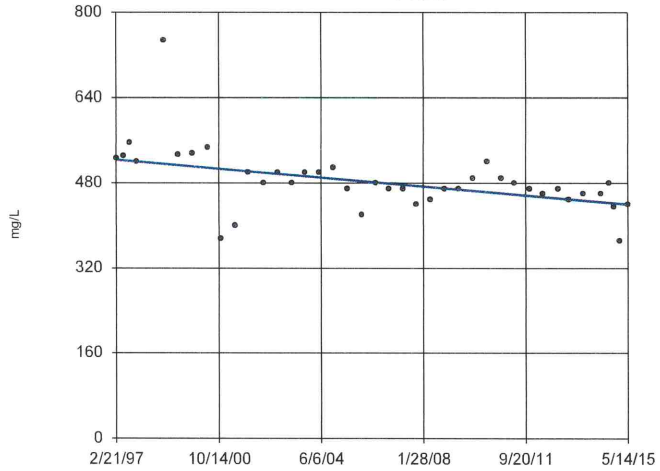
Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -4.547
units per year.

Mann-Kendall
statistic = -362
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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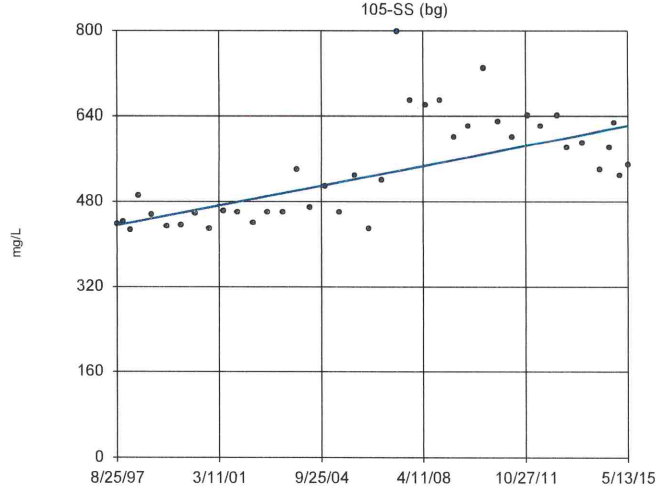
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 10.47
units per year.

Mann-Kendall
statistic = 377
critical = 201

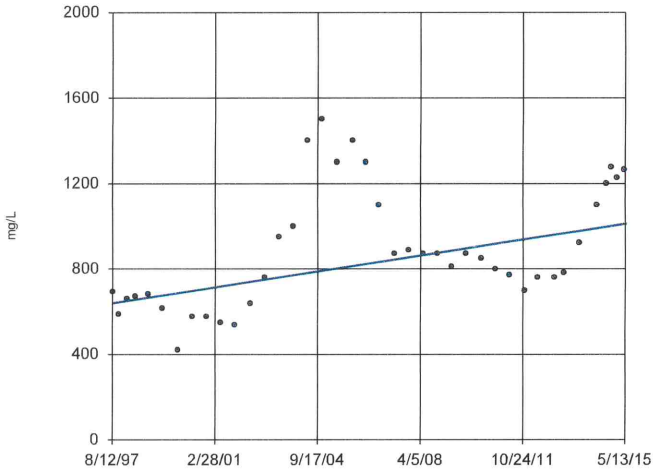
Increasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 20.92 units per year.

Mann-Kendall statistic = 246 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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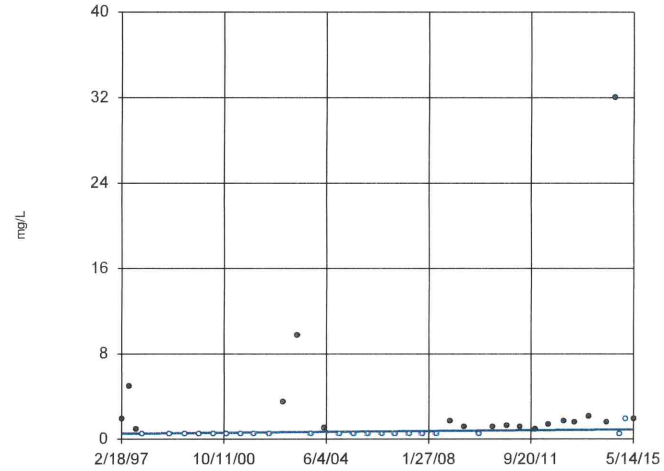
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0.02137 units per year.

Mann-Kendall statistic = 213 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

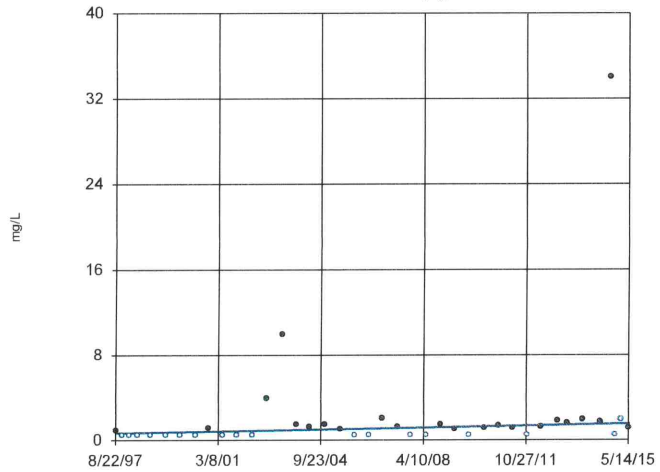
Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0.04989 units per year.

Mann-Kendall statistic = 246 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

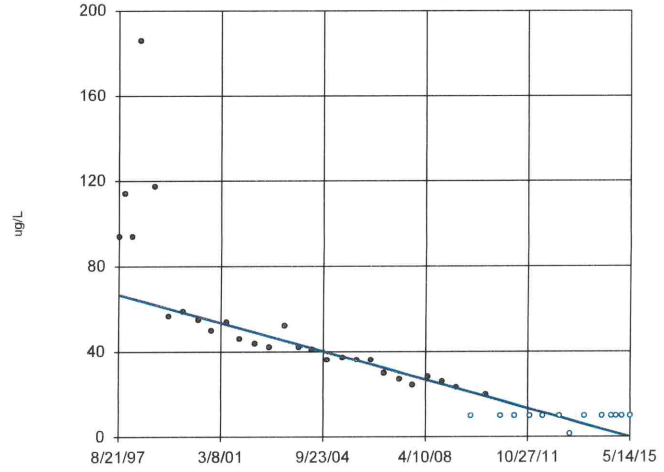
Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -3.762 units per year.

Mann-Kendall statistic = -661 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

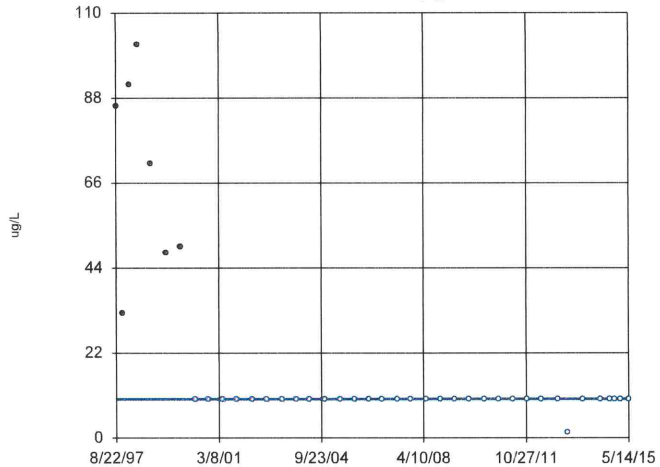
Constituent: Zinc Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -254
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Zinc Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

INTRA-WELL PREDICTION LIMITS

Background data were evaluated for increasing statistical trends (or either increasing or decreasing trends for field pH). In those cases where the background data were determined to exhibit a statistical trend, typically the most recent background data were excluded until the data no longer exhibited a statistical trend. For each of the constituent-well pairs listed below, the specified modified background data period was utilized in the determination of the intra-well prediction limit.

St. Louis Formation Zone

- Arsenic (Total) at PZ-115-SS (8/97 through 2/15)
- Barium (Total) at PZ-104-SS (2/97 through 9/14)
- Barium (Total) at PZ-105-SS (8/97 through 11/02)
- Barium (Total) at PZ-115-SS (8/97 through 10/13)
- Barium (Total) at PZ-205-SS (8/97 through 2/15)
- Boron (Total) at PZ-100-SS (2/97 through 5/12)
- Boron (Total) at PZ-104-SS (2/97 through 5/06)
- Boron (Total) at PZ-115-SS (8/97 through 5/14)
- Calcium (Total) at PZ-105-SS (8/97 through 11/01)
- Calcium (Total) at PZ-106-SS (2/97 through 11/11)
- Calcium (Total) at PZ-115-SS (8/97 through 5/14)
- Calcium (Total) at PZ-201A-SS (2/97 through 5/07)
- Calcium (Total) at PZ-205-SS (8/97 through 11/09)
- Chloride at PZ-104-SS (2/97 through 11/12)
- Chloride at PZ-105-SS (8/97 through 11/99)
- Chloride at PZ-106-SS (2/97 through 11/10)
- Chloride at PZ-115-SS (8/97 through 9/14)
- Chloride at PZ-201A-SS (2/97 through 5/08)
- Chloride at PZ-205-SS (8/97 through 5/12)
- Fluoride at PZ-109-SS (8/97 through 9/14)
- Hardness (Total) at PZ-105-SS (8/97 through 5/04)
- Hardness (Total) at PZ-106-SS (2/97 through 11/11)
- Hardness (Total) at PZ-115-SS (8/97 through 10/13)
- Hardness (Total) at PZ-201A-SS (2/97 through 5/07)
- Hardness (Total) at PZ-205-SS (8/97 through 11/07)
- Iron (Total) at PZ-106-SS (2/97 through 5/09)
- Iron (Total) at PZ-115-SS (8/97 through 5/08)
- Magnesium (Total) at PZ-104-SS (2/97 through 5/12)
- Magnesium (Total) at PZ-105-SS (8/97 through 11/01)
- Magnesium (Total) at PZ-106-SS (2/97 through 5/09)
- Magnesium (Total) at PZ-115-SS (8/97 through 9/14)
- Magnesium (Total) at PZ-201A-SS (2/97 through 11/02)
- Magnesium (Total) at PZ-205-SS (8/97 through 11/04)
- Manganese (Total) at PZ-115-SS (8/97 through 5/02)
- Nickel (Total) at PZ-115-SS (8/97 through 9/14)
- Nitrate + Nitrite as N at PZ-201A-SS (2/97 through 11/09)
- pH (Field) at PZ-104-SS (2/97 through 10/13)
- pH (Field) at PZ-105-SS (8/97 through 5/12)
- pH (Field) at PZ-106-SS (2/97 through 11/11)
- pH (Field) at PZ-201A-SS (2/97 through 5/11)
- pH (Field) at PZ-205-SS (8/97 through 5/12)

- Phosphorous (Total) at PZ-115-SS (8/97 through 11/11)
- Sodium (Total) at PZ-105-SS (8/97 through 11/10)
- Sodium (Total) at PZ-106-SS (2/97 through 11/09)
- Sodium (Total) at PZ-115-SS (8/97 through 10/13)
- Specific conductance (Field) at PZ-105-SS (8/97 through 5/07)
- Specific conductance (Field) at PZ-115-SS (8/97 through 5/14)
- Sulfate at SO_4 at PZ-105-SS (11/97 through 11/00)
- Sulfate at SO_4 at PZ-201A-SS (2/97 through 11/14)
- Total dissolved solids at PZ-105-SS (8/97 through 5/06)
- Total dissolved solids at PZ-115-SS (8/97 through 9/14)
- Total organic carbon at PZ-106-SS (2/97 through 2/15)
- Total organic carbon at PZ-205-SS (8/97 through 4/13)

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 11:10 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Ammonia as N (mg/L)	100-SS	0.80	n/a	2/22/2018	0.05ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	104-SS	0.47	n/a	2/26/2018	0.05ND	No	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	109-SS	0.31	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	105-SS	0.14	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	106-SS	0.80	n/a	2/21/2018	0.19	No	40	n/a	n/a	67.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	**115-SS**	**0.34**	**n/a**	**2/22/2018**	**1.7**	**Yes**	**40**	**n/a**	**n/a**	**67.5**	**n/a**	**n/a**	**0.001152**	**NP Intra (NDs) 1 of 2**
Ammonia as N (mg/L)	201A-SS	0.32	n/a	2/22/2018	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	205-SS	0.34	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	100-SS	770	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SS	5.0	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	109-SS	1800	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	105-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	106-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	115-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	201A-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	205-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	100-SS	3000	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	104-SS	11	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	109-SS	5800	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	105-SS	3.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	106-SS	11	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	55	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	201A-SS	6.5	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	205-SS	5.2	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	100-SS	80	n/a	2/22/2018	66.6	No	40	319653	75641	0	None	x^3	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	109-SS	76	n/a	2/21/2018	60.2	No	40	4156	605.3	0	None	x^2	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	**106-SS**	**170**	**n/a**	**2/21/2018**	**207**	**Yes**	**39**	**5.223**	**0.1277**	**0**	**None**	**x^(1/3)**	**0.00009683**	**Param Intra 1 of 2**
Barium Total (ug/L)	201A-SS	150	n/a	2/22/2018	126	No	39	111.8	14.77	0	None	No	0.00009683	Param Intra 1 of 2
Beryllium Total (ug/L)	100-SS	2.0	n/a	2/22/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	104-SS	2.0	n/a	2/26/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	109-SS	2.0	n/a	2/21/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	105-SS	2.0	n/a	2/21/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	106-SS	2.0	n/a	2/21/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	115-SS	2.0	n/a	2/22/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	201A-SS	2.0	n/a	2/22/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	205-SS	2.0	n/a	2/21/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	109-SS	330	n/a	2/21/2018	180	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Boron Total (ug/L)	105-SS	100	n/a	2/21/2018	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	106-SS	100	n/a	2/21/2018	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	201A-SS	100	n/a	2/22/2018	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	205-SS	280	n/a	2/21/2018	50ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	100-SS	2.5	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	104-SS	0.20	n/a	2/26/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	109-SS	4.6	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	105-SS	2.5	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SS	2.5	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	115-SS	2.5	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	201A-SS	2.5	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	205-SS	5.8	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	100-SS	110000	n/a	2/22/2018	88500	No	39	11.46	0.04697	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Calcium Total (ug/L)	104-SS	97000	n/a	2/26/2018	79100	No	40	6.8e9	1.0e9	0	None	x^2	0.00009683	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 11:10 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium Total (ug/L)	109-SS	96000	n/a	2/21/2018	89400	No	39	4.0e29	1.4e29	0	None	x^6	0.00009683	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SS	21	n/a	2/22/2018	5ND	No	34	n/a	n/a	97.06	n/a	n/a	0.001587	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	104-SS	96	n/a	2/26/2018	15.2	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	109-SS	18	n/a	2/21/2018	5ND	No	35	n/a	n/a	94.29	n/a	n/a	0.001487	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	105-SS	42	n/a	2/21/2018	5ND	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SS	66	n/a	2/21/2018	22.8	No	32	n/a	n/a	87.5	n/a	n/a	0.001789	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	115-SS	180	n/a	2/22/2018	32.9	No	40	n/a	n/a	30	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	201A-SS	27	n/a	2/22/2018	5ND	No	31	n/a	n/a	93.55	n/a	n/a	0.001889	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	205-SS	52	n/a	2/21/2018	5ND	No	37	n/a	n/a	89.19	n/a	n/a	0.001353	NP Intra (NDs) 1 of 2
Chloride (mg/L)	100-SS	12	n/a	2/22/2018	3.9	No	36	1.756	0.2758	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Chloride (mg/L)	109-SS	26	n/a	2/21/2018	3.9	No	6	1.984	0.21	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Chromium Total (ug/L)	100-SS	21	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	104-SS	6.6	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	109-SS	14	n/a	2/21/2018	2.5ND	No	13	n/a	n/a	53.85	n/a	n/a	0.009354	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	105-SS	6.4	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	106-SS	8.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	115-SS	5.5	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	201A-SS	7.5	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	205-SS	52	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	100-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	104-SS	5.0	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	109-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	105-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	106-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	115-SS	62	n/a	2/22/2018	30.9	No	39	n/a	n/a	43.59	n/a	n/a	0.001219	NP Intra (normality) 1 of 2
Cobalt Total (ug/L)	201A-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	205-SS	10	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	100-SS	20	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	104-SS	5.0	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	109-SS	31	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	105-SS	10	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	106-SS	10	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	115-SS	21	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	201A-SS	10	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	205-SS	46	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	100-SS	1	n/a	2/22/2018	0.62	No	19	-0.3064	0.1075	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	104-SS	0.97	n/a	2/26/2018	0.83	No	24	0.4327	0.1674	0	None	x^3	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	105-SS	1.2	n/a	2/21/2018	0.42	No	18	-0.3047	0.157	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	106-SS	2.4	n/a	2/21/2018	1.8	No	26	0.6576	0.08543	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	115-SS	1.8	n/a	2/22/2018	0.34	No	9	11.05	6.304	0	None	x^6	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	201A-SS	0.68	n/a	2/22/2018	0.37	No	19	-0.74	0.1201	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	205-SS	0.6	n/a	2/21/2018	0.42	No	25	-0.909	0.1421	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	100-SS	510	n/a	2/22/2018	430	No	39	2.0e13	5.2e12	0	None	x^5	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	104-SS	460	n/a	2/26/2018	394	No	39	2.7e10	7.1e9	0	None	x^4	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	109-SS	740	n/a	2/21/2018	436	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Iron Total (ug/L)	100-SS	2000	n/a	2/22/2018	25ND	No	40	n/a	n/a	25	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Iron Total (ug/L)	104-SS	8200	n/a	2/26/2018	218	No	23	44.82	16.07	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	109-SS	13000	n/a	2/21/2018	25ND	No	19	5.9	1.21	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	105-SS	13000	n/a	2/21/2018	1650	No	39	7.068	0.9247	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	201A-SS	15000	n/a	2/22/2018	25ND	No	21	6.316	1.137	0	None	ln(x)	0.00009683	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 11:10 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Iron Total (ug/L)	205-SS	5700	n/a	2/21/2018	25ND	No	38	6.552	0.8042	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Lead Total (ug/L)	100-SS	2700	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	104-SS	25	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	109-SS	3400	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	105-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	106-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	115-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	201A-SS	25	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	205-SS	89	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	100-SS	60000	n/a	2/22/2018	50800	No	40	1.5e14	2.5e13	0	None	x^3	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	109-SS	57000	n/a	2/21/2018	51700	No	39	2.0e28	5.9e27	0	None	x^6	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	100-SS	75	n/a	2/22/2018	2.5ND	No	36	n/a	n/a	52.78	n/a	n/a	0.00142	NP Intra (NDs) 1 of 2
Manganese Total (ug/L)	104-SS	100	n/a	2/26/2018	25.4	No	39	5.486	1.746	2.564	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	109-SS	120	n/a	2/21/2018	2.5ND	No	5	n/a	n/a	0	n/a	n/a	0.04213	NP Intra (xform) 1 of 2
Manganese Total (ug/L)	**105-SS**	**67**	**n/a**	**2/21/2018**	**88.8**	**Yes**	**39**	**2.59**	**0.5683**	**2.564**	**None**	**x^(1/3)**	**0.00009683**	**Param Intra 1 of 2**
Manganese Total (ug/L)	106-SS	52	n/a	2/21/2018	15.8	No	38	4.249	1.13	2.632	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	201A-SS	980	n/a	2/22/2018	2.5ND	No	22	5.702	1.475	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	205-SS	250	n/a	2/21/2018	2.5ND	No	13	2.701	0.8245	7.692	None	ln(x)	0.00009683	Param Intra 1 of 2
Mercury Total (ug/L)	100-SS	0.20	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	104-SS	0.30	n/a	2/26/2018	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	109-SS	0.20	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	105-SS	0.20	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	106-SS	0.20	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	115-SS	0.20	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	201A-SS	0.35	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	205-SS	0.20	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	100-SS	89	n/a	2/22/2018	10.3	No	14	3.151	0.4058	7.143	None	ln(x)	0.00009683	Param Intra 1 of 2
Nickel Total (ug/L)	104-SS	23	n/a	2/26/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	109-SS	20	n/a	2/21/2018	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	105-SS	20	n/a	2/21/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	106-SS	20	n/a	2/21/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	201A-SS	20	n/a	2/22/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	205-SS	32	n/a	2/21/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	100-SS	0.27	n/a	2/22/2018	0.05ND	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	104-SS	0.39	n/a	2/26/2018	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	109-SS	0.50	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	105-SS	0.12	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	106-SS	0.54	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	115-SS	5.0	n/a	2/22/2018	0.05ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	205-SS	0.15	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
pH [Field] (su)	100-SS	8.3	6.3	2/22/2018	7.18	No	33	1.982	0.05005	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	109-SS	8	6.5	2/21/2018	7.12	No	39	1.973	0.04155	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	115-SS	7.6	6	2/22/2018	6.68	No	37	1.913	0.04357	0	None	ln(x)	0.00004842	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SS	0.21	n/a	2/22/2018	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	104-SS	0.46	n/a	2/26/2018	0.025ND	No	40	n/a	n/a	60	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	109-SS	0.25	n/a	2/21/2018	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	105-SS	0.33	n/a	2/21/2018	0.025ND	No	10	0.4001	0.04604	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Phosphorus Total (mg/L)	106-SS	0.38	n/a	2/21/2018	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	201A-SS	0.78	n/a	2/22/2018	0.025ND	No	20	-3.04	0.9527	40	Kaplan-Meier	ln(x)	0.00009683	Param Intra 1 of 2
Phosphorus Total (mg/L)	205-SS	0.11	n/a	2/21/2018	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 11:10 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium Total (ug/L)	100-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	104-SS	5.0	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	109-SS	39	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	105-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	106-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	115-SS	50	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	201A-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	205-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	100-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	104-SS	5.0	n/a	2/26/2018	2.5ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	109-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	105-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	106-SS	5.0	n/a	2/21/2018	2.5ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	115-SS	5.9	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	201A-SS	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	205-SS	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	100-SS	40000	n/a	2/22/2018	10000	No	21	150.5	16.91	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	104-SS	25000	n/a	2/26/2018	14100	No	25	17316	2730	0	None	No	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	109-SS	49000	n/a	2/21/2018	9840	No	28	10.11	0.2498	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	201A-SS	110000	n/a	2/22/2018	11100	No	7	45843	11902	0	None	No	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	205-SS	56000	n/a	2/21/2018	15700	No	31	n/a	n/a	0	n/a	n/a	0.001889	NP Intra (normality) 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SS	1000	n/a	2/22/2018	814	No	34	6.75	0.07049	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	104-SS	930	n/a	2/26/2018	787	No	39	4.6e8	1.3e8	0	None	x^3	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	109-SS	990	n/a	2/21/2018	798	No	37	824	63.94	0	None	No	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	**106-SS**	**950**	**n/a**	**2/21/2018**	**1101**	**Yes**	**38**	**4.6e11**	**1.3e11**	**0**	**None**	**x^4**	**0.00009683**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	201A-SS	970	n/a	2/22/2018	788	No	39	660296	108124	0	None	x^2	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	205-SS	1300	n/a	2/21/2018	896	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sulfate (mg/L)	100-SS	98	n/a	2/22/2018	34.3	No	16	4.185	0.1275	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	104-SS	39	n/a	2/26/2018	19.7	No	15	3.297	0.116	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	109-SS	92	n/a	2/21/2018	23.3	No	29	3.821	0.2579	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	106-SS	66	n/a	2/21/2018	43.6	No	40	3.901	0.1104	2.5	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	115-SS	76	n/a	2/22/2018	2.9	No	22	5.632	1.069	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	205-SS	73	n/a	2/21/2018	52.5	No	39	50.72	8.593	0	None	No	0.00009683	Param Intra 1 of 2
Thallium Total (ug/L)	100-SS	50	n/a	2/22/2018	1ND	No	19	n/a	n/a	94.74	n/a	n/a	0.004738	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	104-SS	2.0	n/a	2/26/2018	1ND	No	20	n/a	n/a	100	n/a	n/a	0.004219	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	109-SS	2.0	n/a	2/21/2018	1ND	No	17	n/a	n/a	100	n/a	n/a	0.005778	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	105-SS	2.0	n/a	2/21/2018	1ND	No	16	n/a	n/a	100	n/a	n/a	0.006299	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	106-SS	2.0	n/a	2/21/2018	1ND	No	20	n/a	n/a	100	n/a	n/a	0.004219	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	115-SS	2.0	n/a	2/22/2018	1ND	No	17	n/a	n/a	100	n/a	n/a	0.005778	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	201A-SS	2.0	n/a	2/22/2018	1ND	No	20	n/a	n/a	100	n/a	n/a	0.004219	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	205-SS	2.0	n/a	2/21/2018	1ND	No	17	n/a	n/a	100	n/a	n/a	0.005778	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SS	590	n/a	2/22/2018	430	No	15	263507	26220	0	None	x^2	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	104-SS	510	n/a	2/26/2018	384	No	38	6.039	0.07516	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	109-SS	570	n/a	2/21/2018	391	No	38	6.139	0.0774	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**106-SS**	**530**	**n/a**	**2/21/2018**	**595**	**Yes**	**35**	**7.695**	**0.1596**	**0**	**None**	**x^(1/3)**	**0.00009683**	**Param Intra 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	201A-SS	560	n/a	2/22/2018	468	No	39	226671	33845	0	None	x^2	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	205-SS	580	n/a	2/21/2018	487	No	39	6.217	0.05445	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SS	31	n/a	2/22/2018	1.1	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	104-SS	28	n/a	2/26/2018	2.5	No	40	n/a	n/a	47.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	109-SS	31	n/a	2/21/2018	1.4	No	40	n/a	n/a	52.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 11:10 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Organic Carbon [TOC] (mg/L)	105-SS	29	n/a	2/21/2018	4	No	40	n/a	n/a	17.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	115-SS	40	n/a	2/22/2018	11.2	No	34	2.511	1.429	20.59	Kaplan-Meier	sqrt(x)	0.00009683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	201A-SS	33	n/a	2/22/2018	1.1	No	40	n/a	n/a	50	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	100-SS	10	n/a	2/22/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	104-SS	10	n/a	2/26/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	109-SS	10	n/a	2/21/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	105-SS	10	n/a	2/21/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	106-SS	10	n/a	2/21/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	115-SS	14	n/a	2/22/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	201A-SS	10	n/a	2/22/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	205-SS	110	n/a	2/21/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	100-SS	230	n/a	2/22/2018	10ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	104-SS	220	n/a	2/26/2018	10ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	109-SS	540	n/a	2/21/2018	10ND	No	9	4.426	0.4473	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Zinc Total (ug/L)	105-SS	43	n/a	2/21/2018	10ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	106-SS	40	n/a	2/21/2018	10ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	115-SS	68	n/a	2/22/2018	22.2	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	201A-SS	180	n/a	2/22/2018	10ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	205-SS	180	n/a	2/21/2018	10ND	No	9	57.78	29.33	22.22	Kaplan-Meier	No	0.00009683	Param Intra 1 of 2
Arsenic Total (ug/L)	115-SS	19	n/a	2/22/2018	5.9	No	39	n/a	n/a	56.41	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	104-SS	110	n/a	2/26/2018	102	No	36	8075	1743	0	None	x^2	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	105-SS	190	n/a	2/21/2018	180	No	13	4.594	0.3338	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	115-SS	600	n/a	2/22/2018	509	No	35	228	139.9	0	None	No	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	205-SS	180	n/a	2/21/2018	142	No	39	n/a	n/a	0	n/a	n/a	0.001219	NP Intra (normality) 1 of 2
Boron Total (ug/L)	100-SS	140	n/a	2/22/2018	109	No	32	1.7e8	9.7e7	12.5	None	x^4	0.00009683	Param Intra 1 of 2
Boron Total (ug/L)	104-SS	160	n/a	2/26/2018	138	No	20	n/a	n/a	40	n/a	n/a	0.004219	NP Intra (normality) 1 of 2
Boron Total (ug/L)	115-SS	1000	n/a	2/22/2018	465	No	36	n/a	n/a	30.56	n/a	n/a	0.00142	NP Intra (normality) 1 of 2
Calcium Total (ug/L)	**105-SS**	**86000**	**n/a**	**2/21/2018**	**103000**	**Yes**	**11**	**11.08**	**0.07786**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Calcium Total (ug/L)	**106-SS**	**110000**	**n/a**	**2/21/2018**	**111000**	**Yes**	**29**	**11.46**	**0.06699**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Calcium Total (ug/L)	115-SS	350000	n/a	2/22/2018	219000	No	36	11.89	0.3286	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Calcium Total (ug/L)	201A-SS	100000	n/a	2/22/2018	90600	No	22	85186	6232	0	None	No	0.00009683	Param Intra 1 of 2
Calcium Total (ug/L)	205-SS	100000	n/a	2/21/2018	96900	No	27	n/a	n/a	0	n/a	n/a	0.002475	NP Intra (normality) 1 of 2
Chloride (mg/L)	104-SS	5.0	n/a	2/26/2018	4.4	No	31	n/a	n/a	51.61	n/a	n/a	0.001889	NP Intra (NDs) 1 of 2
Chloride (mg/L)	**105-SS**	**25**	**n/a**	**2/21/2018**	**76.1**	**Yes**	**7**	**2.586**	**0.1213**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Chloride (mg/L)	**106-SS**	**17**	**n/a**	**2/21/2018**	**57.6**	**Yes**	**29**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002152**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	115-SS	750	n/a	2/22/2018	500	No	29	13.39	5.173	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Chloride (mg/L)	**201A-SS**	**4.0**	**n/a**	**2/22/2018**	**4.1**	**Yes**	**24**	**n/a**	**n/a**	**50**	**n/a**	**n/a**	**0.003083**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	205-SS	50	n/a	2/21/2018	31.5	No	32	2.998	0.2584	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	109-SS	2.6	n/a	2/21/2018	2.4	No	23	4.319	0.8498	0	None	x^2	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	105-SS	530	n/a	2/21/2018	479	No	36	6.6e7	3.1e7	0	None	x^3	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	**106-SS**	**500**	**n/a**	**2/21/2018**	**503**	**Yes**	**29**	**20.59**	**0.6924**	**0**	**None**	**sqrt(x)**	**0.00009683**	**Param Intra 1 of 2**
Hardness Total (mg/L)	115-SS	1500	n/a	2/22/2018	968	No	35	6.483	0.3251	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	201A-SS	500	n/a	2/22/2018	412	No	21	19.72	0.9201	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	205-SS	520	n/a	2/21/2018	471	No	23	8.0e15	3.9e15	0	None	x^6	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	**106-SS**	**1400**	**n/a**	**2/21/2018**	**2860**	**Yes**	**26**	**5.605**	**0.5835**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Iron Total (ug/L)	115-SS	7200	n/a	2/22/2018	2970	No	24	n/a	n/a	0	n/a	n/a	0.003083	NP Intra (normality) 1 of 2
Magnesium Total (ug/L)	104-SS	55000	n/a	2/26/2018	47800	No	32	1.1e14	2.3e13	0	None	x^3	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	**105-SS**	**47000**	**n/a**	**2/21/2018**	**54000**	**Yes**	**11**	**10.46**	**0.07764**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	**106-SS**	**54000**	**n/a**	**2/21/2018**	**54700**	**Yes**	**25**	**10.69**	**0.07281**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	115-SS	140000	n/a	2/22/2018	102000	No	37	11.23	0.2383	0	None	ln(x)	0.00009683	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 11:10 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Magnesium Total (ug/L)	201A-SS	51000	n/a	2/22/2018	45200	No	13	10.57	0.08112	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	205-SS	64000	n/a	2/21/2018	55500	No	17	224	9.563	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	**115-SS**	**19**	**n/a**	**2/22/2018**	**77.1**	**Yes**	**11**	**8.983**	**2.739**	**9.091**	**None**	**No**	**0.00009683**	**Param Intra 1 of 2**
Nickel Total (ug/L)	115-SS	140	n/a	2/22/2018	70.8	No	37	n/a	n/a	32.43	n/a	n/a	0.001353	NP Intra (normality) 1 of 2
Nitrate/Nitrite (mg/L)	**201A-SS**	**0.33**	**n/a**	**2/22/2018**	**0.34**	**Yes**	**27**	**n/a**	**n/a**	**66.67**	**n/a**	**n/a**	**0.002475**	**NP Intra (NDs) 1 of 2**
pH [Field] (su)	104-SS	8.5	6.2	2/26/2018	6.59	No	35	1.983	0.05825	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	105-SS	8.3	6.7	2/21/2018	7.16	No	32	2.012	0.04035	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	106-SS	8.3	6.3	2/21/2018	6.99	No	31	1.98	0.05226	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	201A-SS	8.5	6.4	2/22/2018	7.22	No	30	1.993	0.05282	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	205-SS	7.9	6.5	2/21/2018	7.12	No	32	1.969	0.03712	0	None	ln(x)	0.00004842	Param Intra 1 of 2
Phosphorus Total (mg/L)	115-SS	0.44	n/a	2/22/2018	0.25	No	31	0.2985	0.1361	12.9	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	105-SS	80000	n/a	2/21/2018	42100	No	29	10.89	0.1457	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	**106-SS**	**17000**	**n/a**	**2/21/2018**	**41700**	**Yes**	**26**	**1.7e8**	**4.0e7**	**0**	**None**	**x^2**	**0.00009683**	**Param Intra 1 of 2**
Sodium Total (ug/L)	115-SS	450000	n/a	2/22/2018	189000	No	35	10.78	0.8461	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	105-SS	1100	n/a	2/21/2018	1079	No	22	813.5	87.59	0	None	No	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	115-SS	3500	n/a	2/22/2018	2740	No	36	7.284	0.335	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	105-SS	47	n/a	2/21/2018	46.9	No	8	40346	14371	0	None	x^3	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	201A-SS	86	n/a	2/22/2018	63.2	No	37	4.083	0.141	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**105-SS**	**540**	**n/a**	**2/21/2018**	**581**	**Yes**	**20**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004219**	**NP Intra (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	115-SS	1800	n/a	2/22/2018	1580	No	37	6.71	0.3007	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	106-SS	32	n/a	2/21/2018	8.7	No	39	n/a	n/a	53.85	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	205-SS	10	n/a	2/21/2018	1.4	No	34	n/a	n/a	47.06	n/a	n/a	0.001587	NP Intra (normality) 1 of 2

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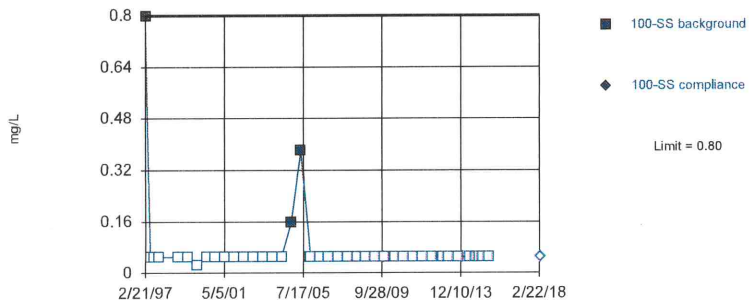
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

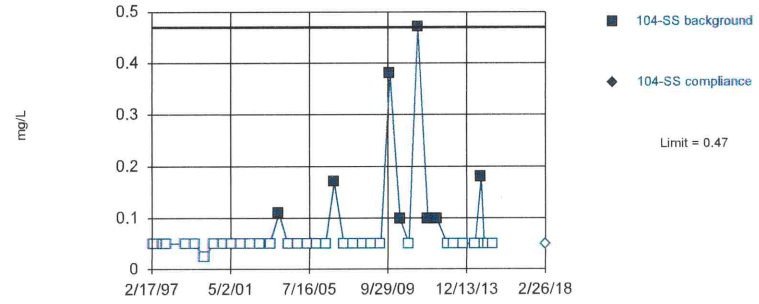
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

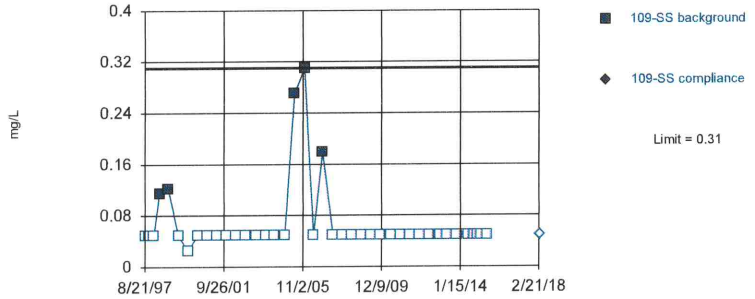
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

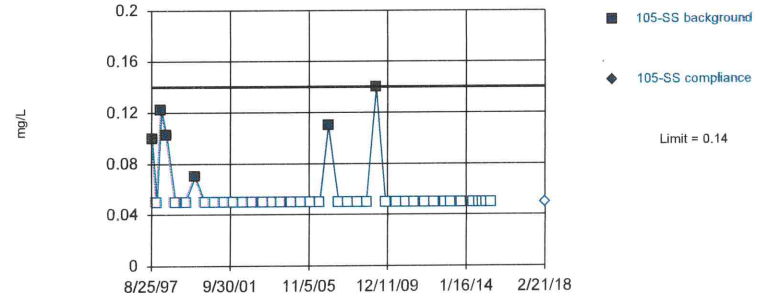
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

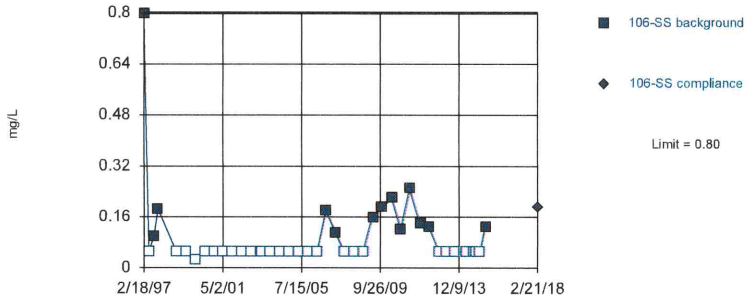
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 67.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

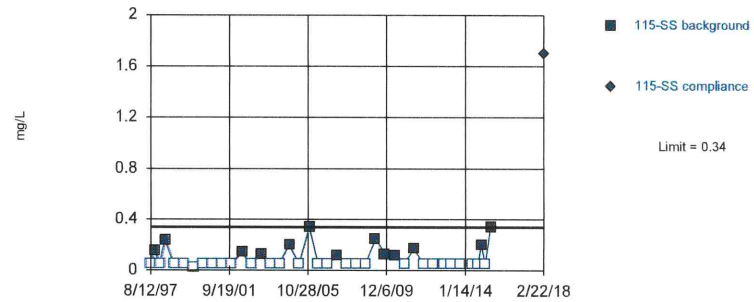
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 67.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

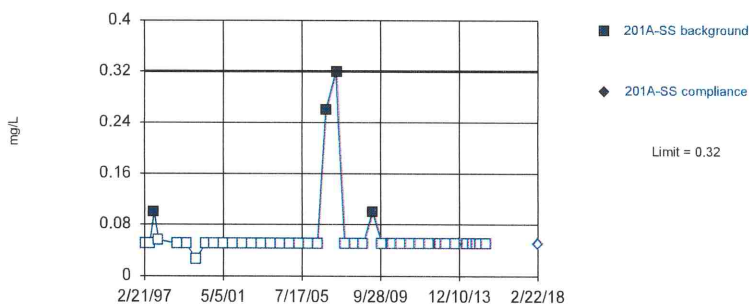
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

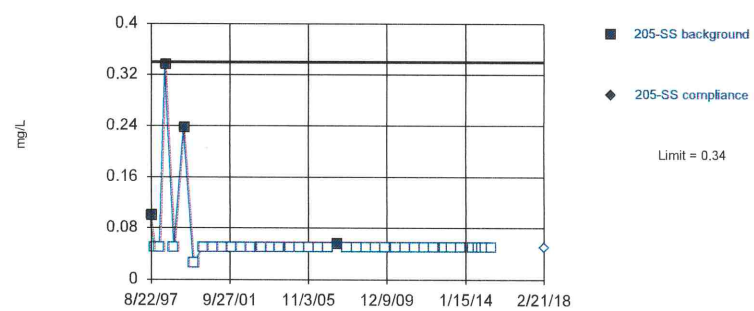
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

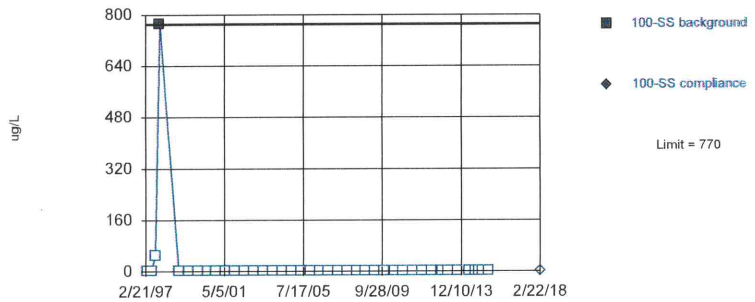
Constituent: Ammonia as N Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

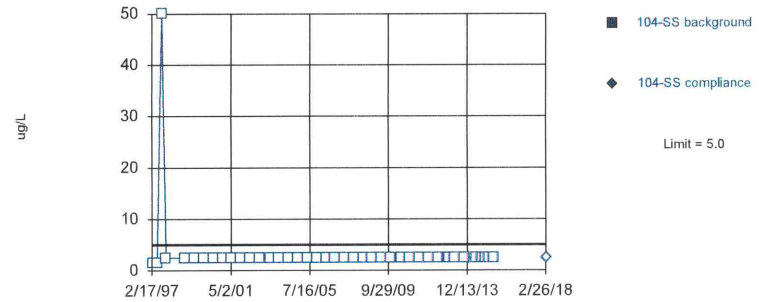
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

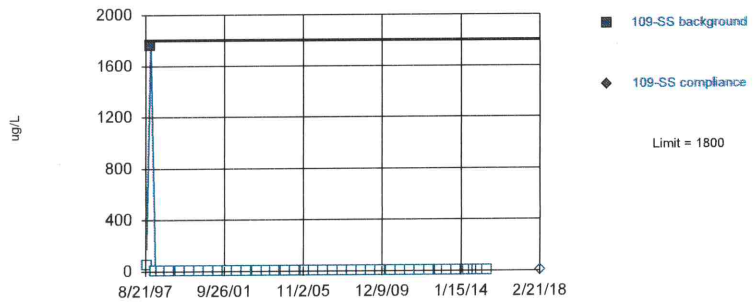
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

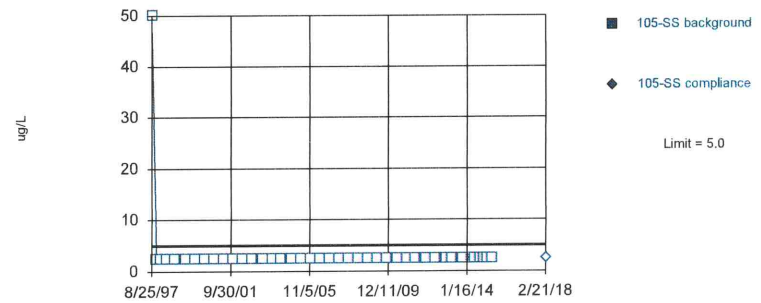
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

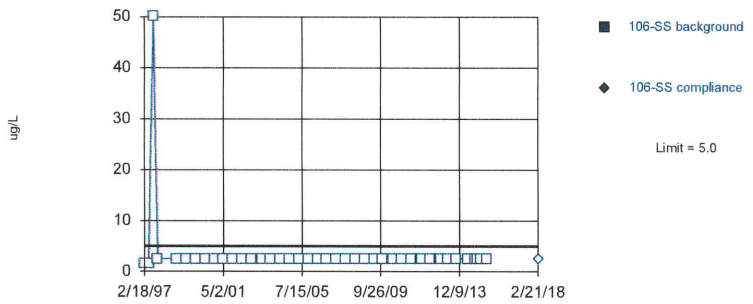
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

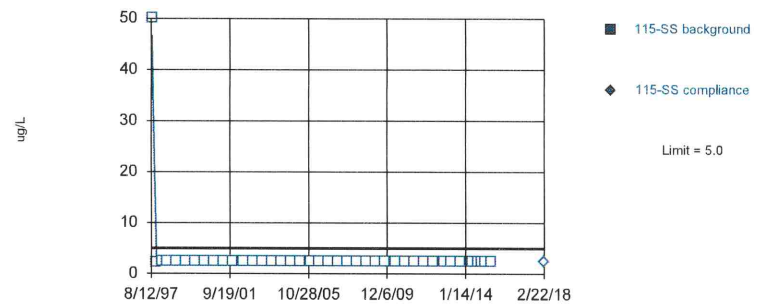
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

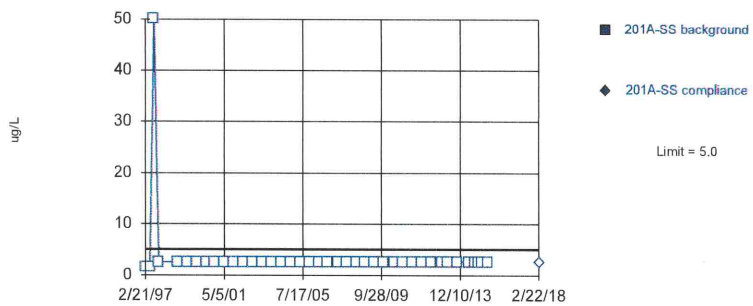
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

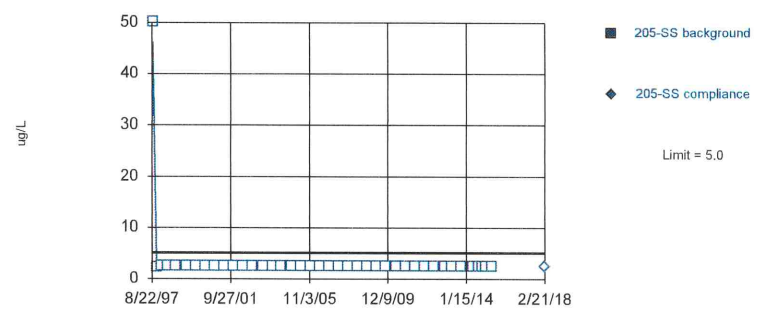
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 8:51 AM

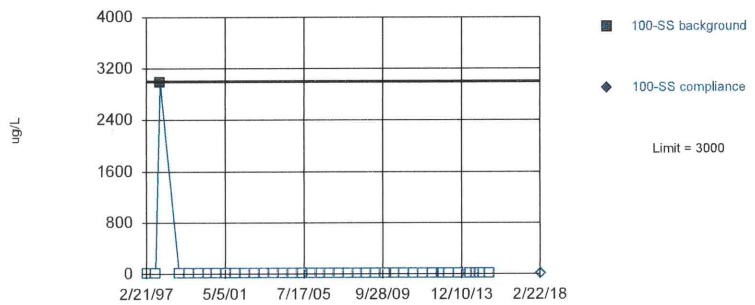
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

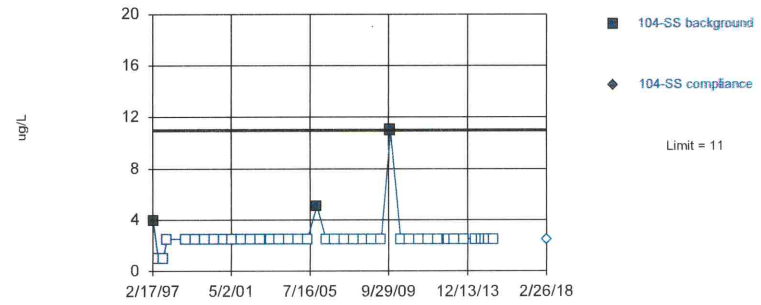
Constituent: Arsenic Total Analysis Run 4/13/2018 8:51 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

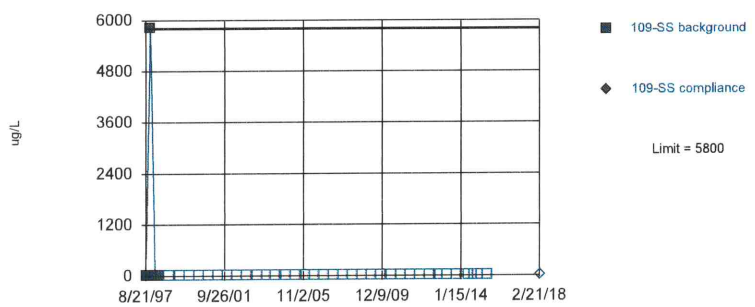
Constituent: Arsenic Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

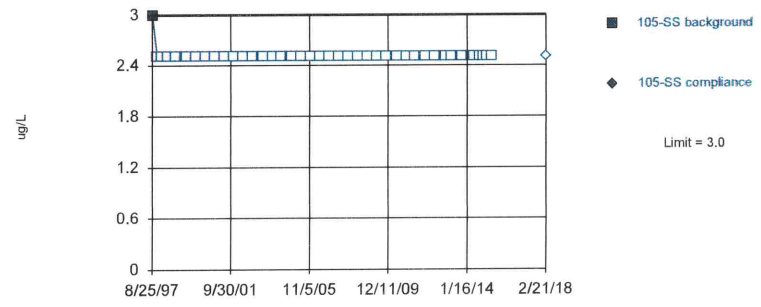
Constituent: Arsenic Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

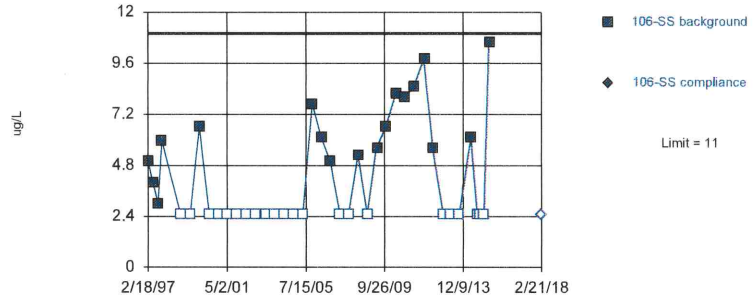
Constituent: Arsenic Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 55% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

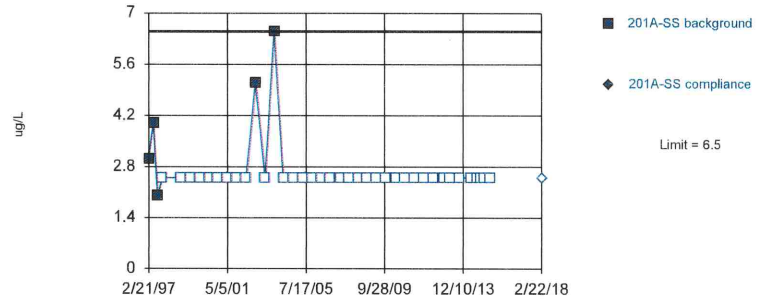
Constituent: Arsenic Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

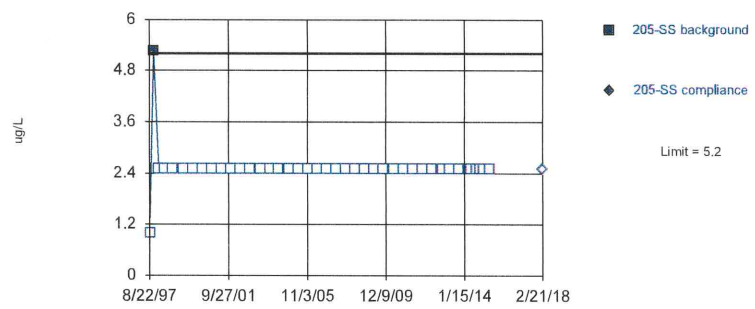
Constituent: Arsenic Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

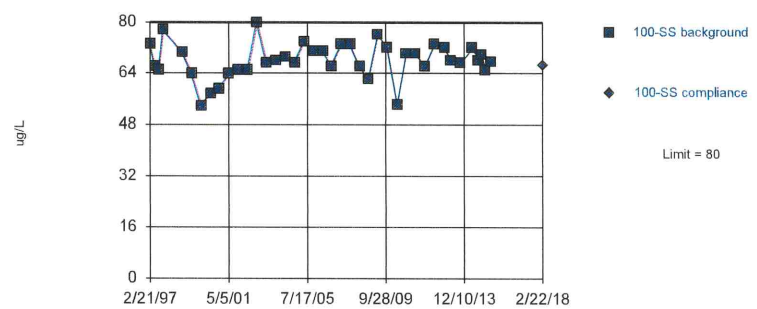
Constituent: Arsenic Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=319653, Std. Dev.=75641, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9781, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

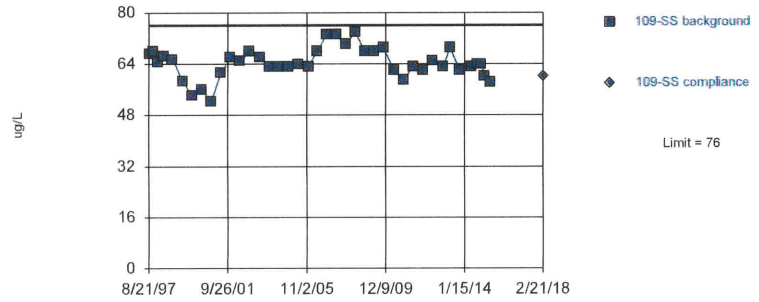
Constituent: Barium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4156, Std. Dev.=605.3, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9757, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 4/13/2018 8:52 AM

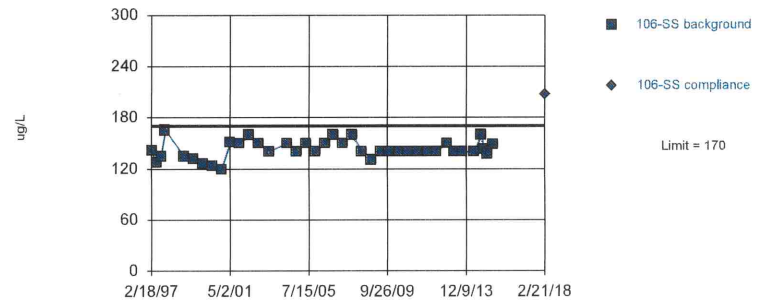
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=5.223, Std. Dev.=0.1277, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9465, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 78 (11/20/2003).

Constituent: Barium Total Analysis Run 4/13/2018 8:52 AM

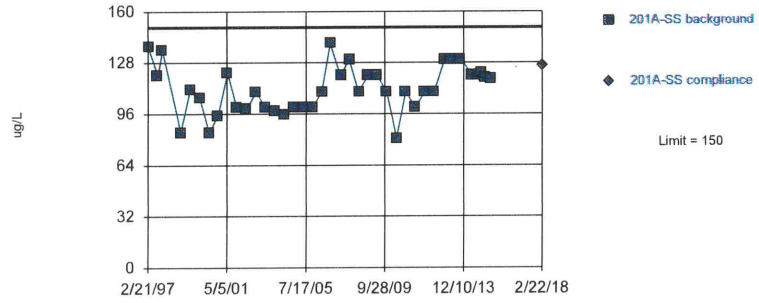
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=111.8, Std. Dev.=14.77, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9618, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 206 (5/27/1997).

Constituent: Barium Total Analysis Run 4/13/2018 8:52 AM

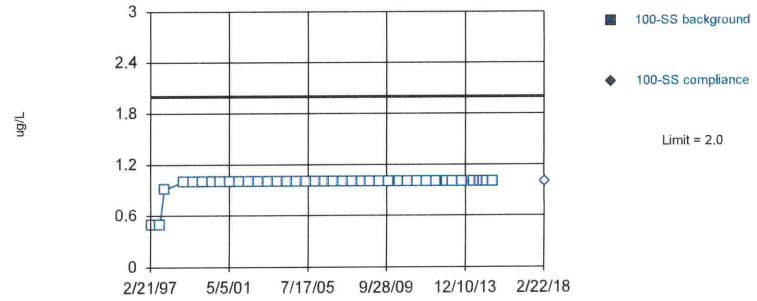
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM

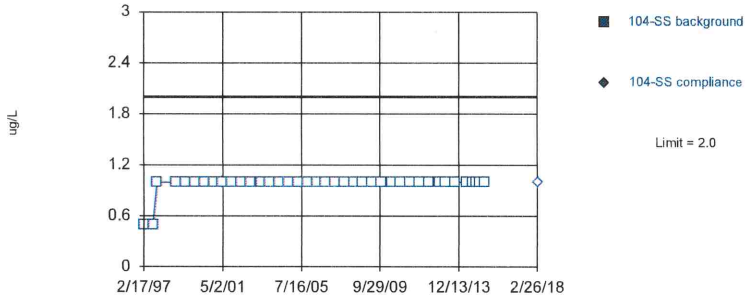
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

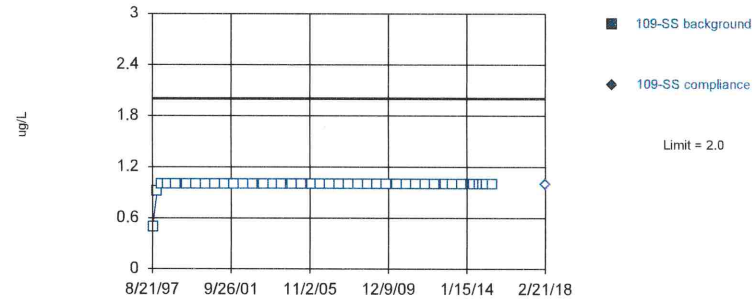
Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

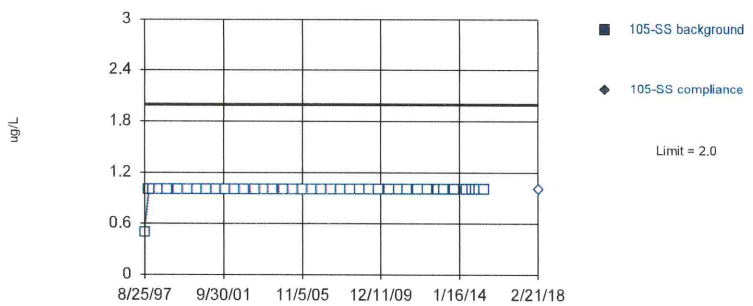
Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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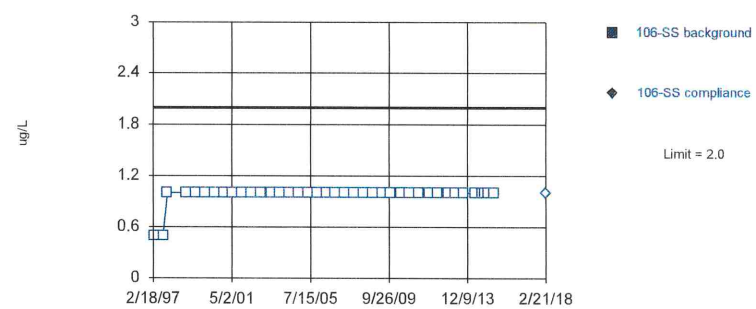
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

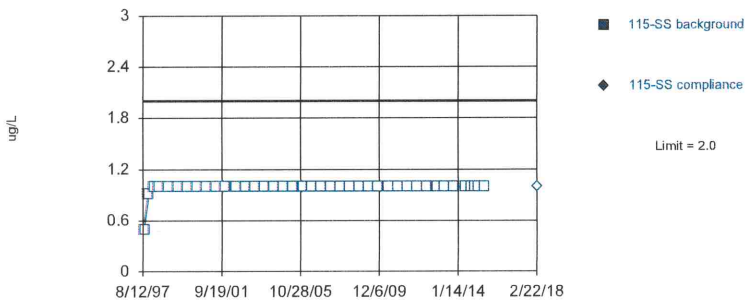
Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

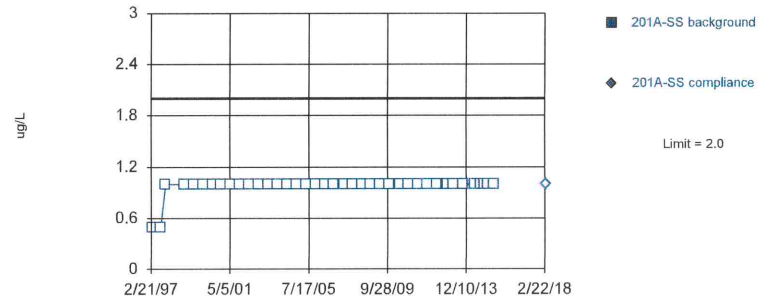
Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

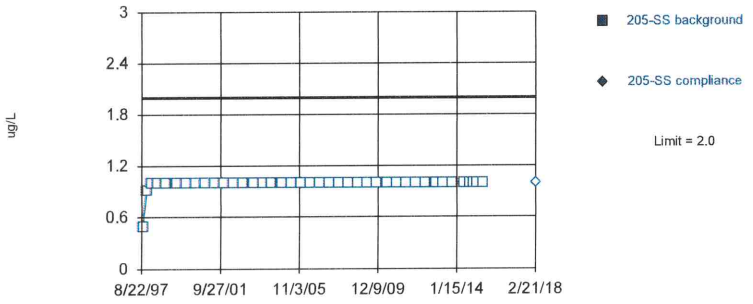
Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

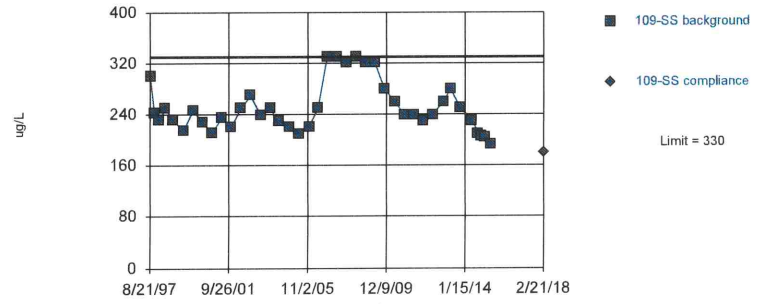
Constituent: Beryllium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

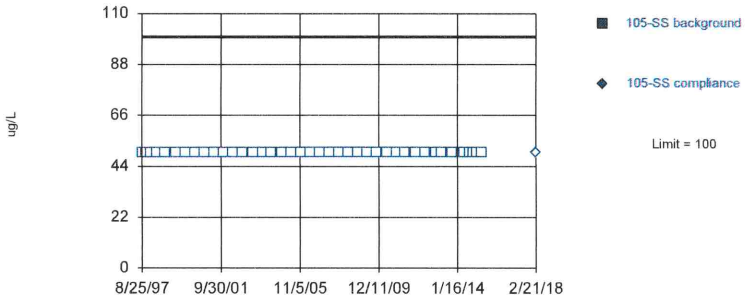
Constituent: Boron Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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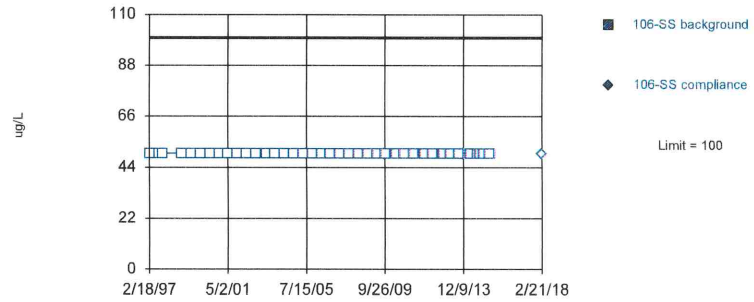
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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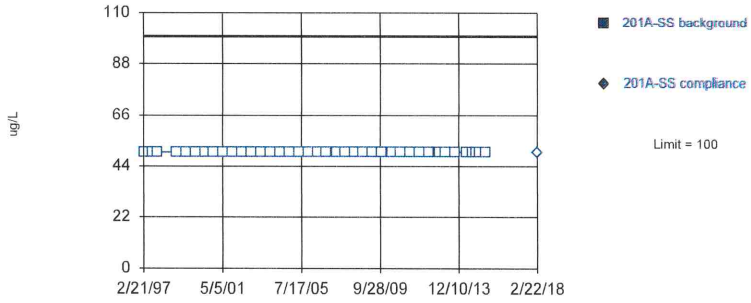
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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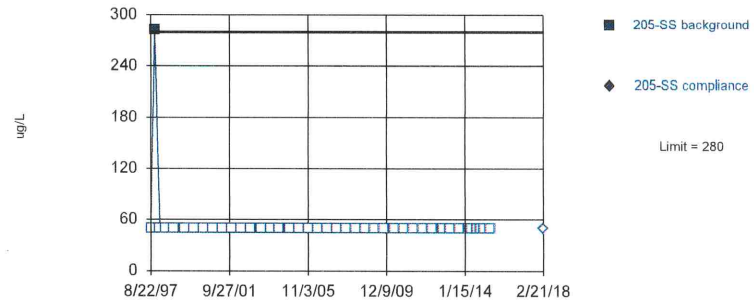
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

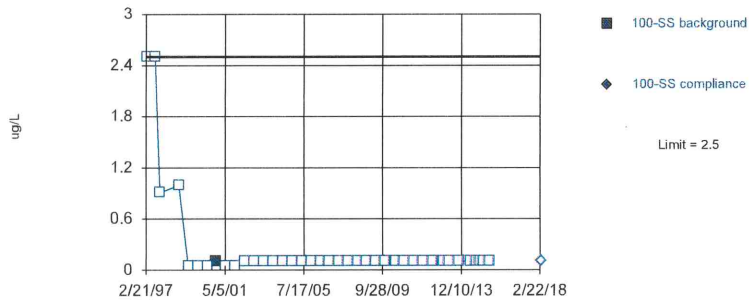
Constituent: Boron Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

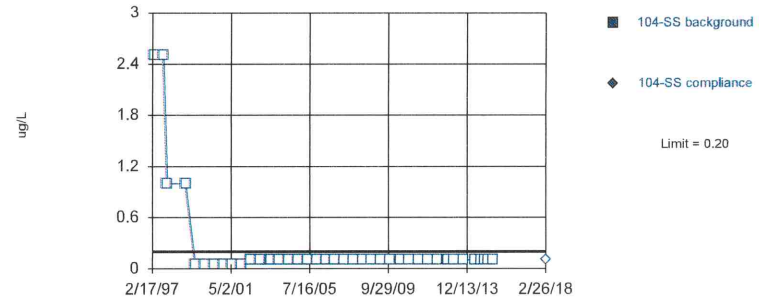
Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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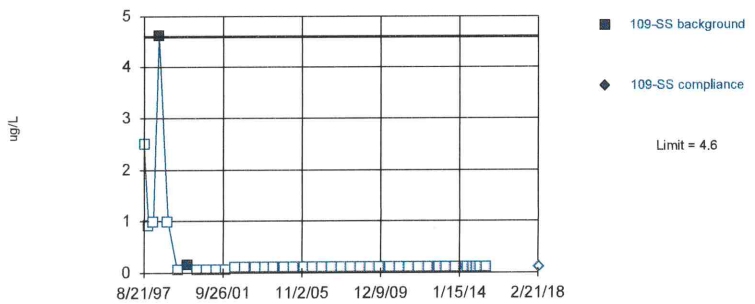
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

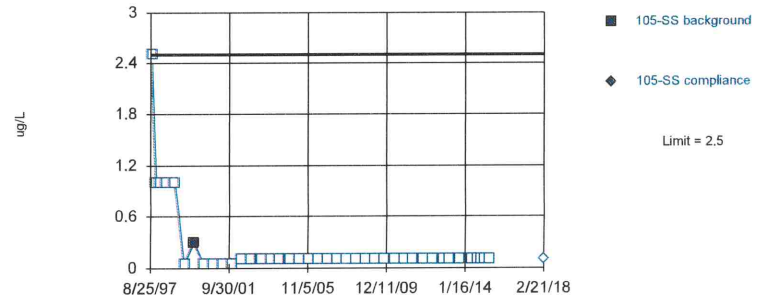
Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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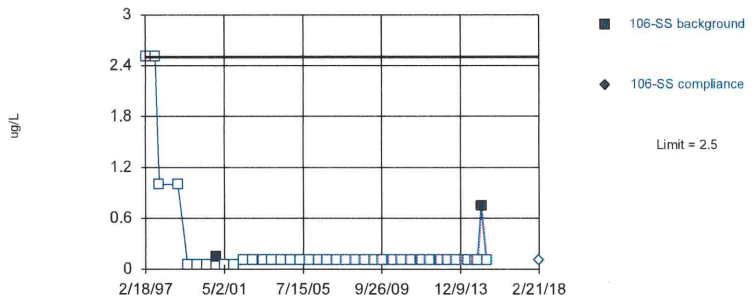
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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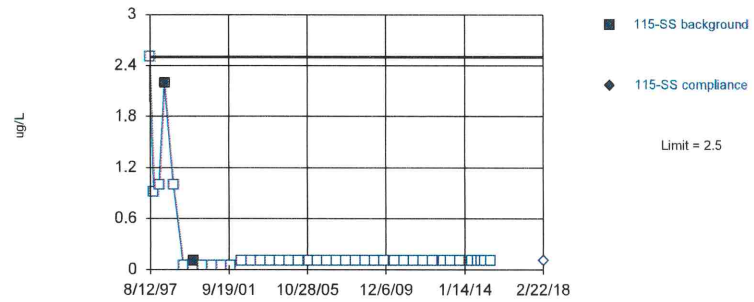
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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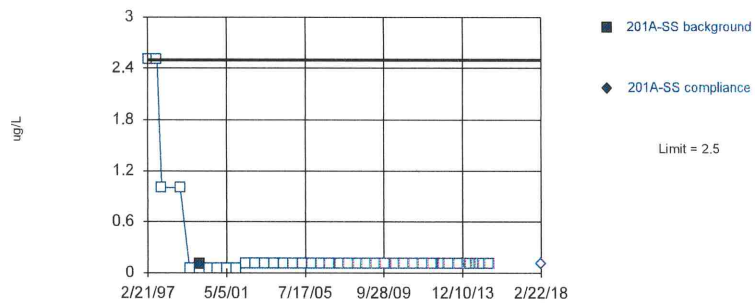
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

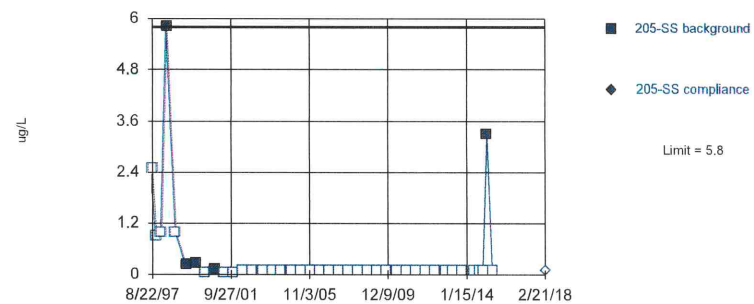
Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

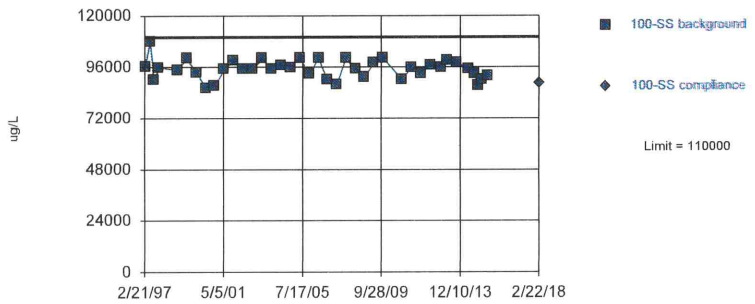
Constituent: Cadmium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.46, Std. Dev.=0.04697, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9614, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 76000 (5/19/2010).

Constituent: Calcium Total Analysis Run 4/13/2018 8:52 AM

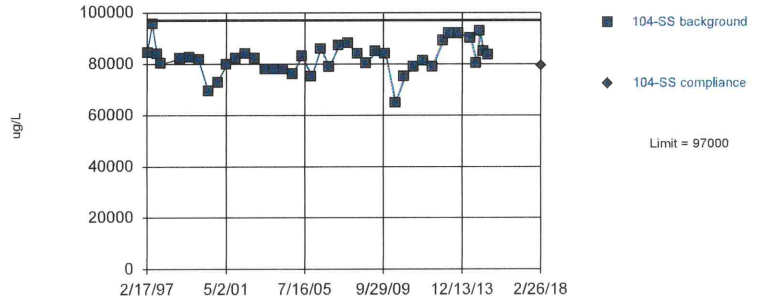
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=6.8e9, Std. Dev.=1.0e9, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9816, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Calcium Total Analysis Run 4/13/2018 8:52 AM

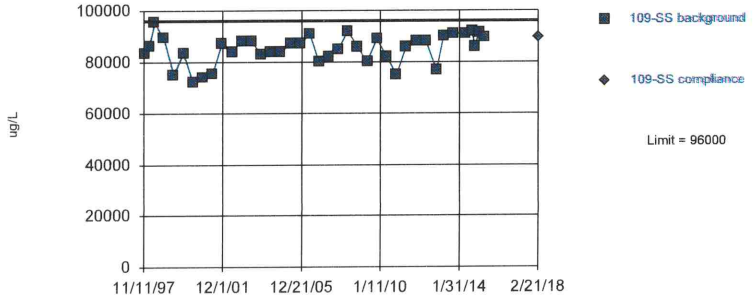
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=4.0e29, Std. Dev.=1.4e29, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9743, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 174000 (8/21/1997).

Constituent: Calcium Total Analysis Run 4/13/2018 8:52 AM

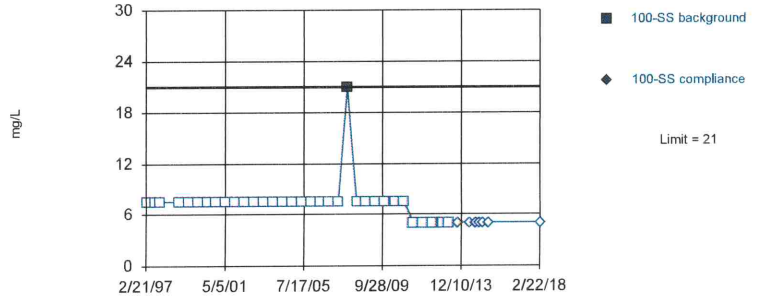
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 34 background values. 97.06% NDs. Well-constituent pair annual alpha = 0.006335. Individual comparison alpha = 0.001587 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM

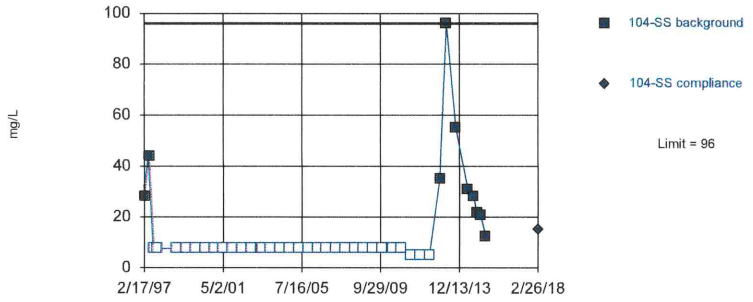
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

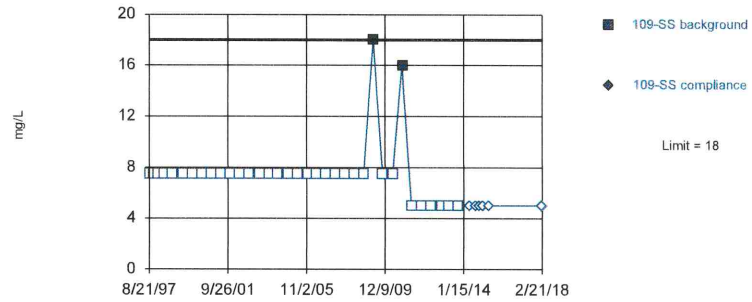
Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 35 background values. 94.29% NDs. Well-constituent pair annual alpha = 0.005934. Individual comparison alpha = 0.001487 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

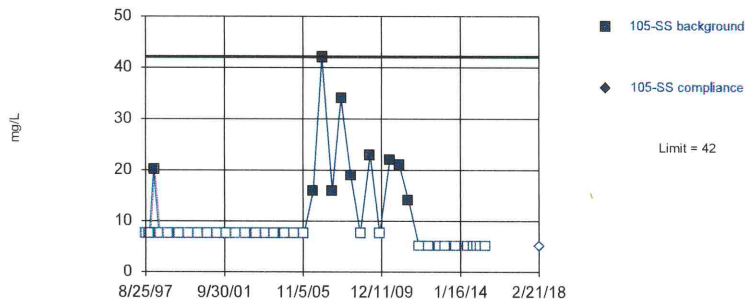
Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

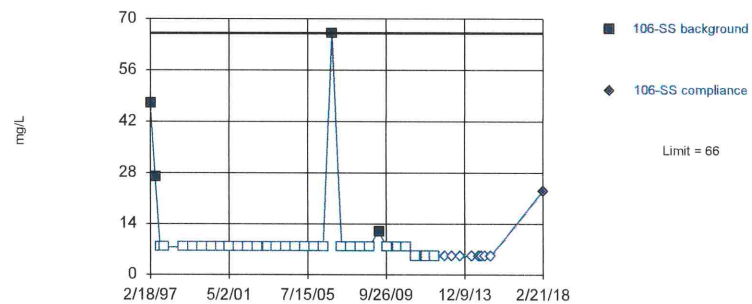
Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.007136. Individual comparison alpha = 0.001789 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

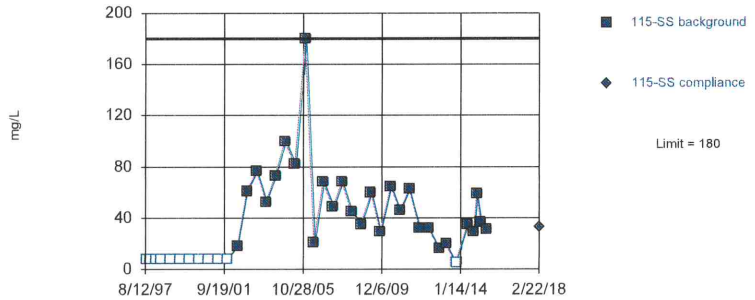
Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 30% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM

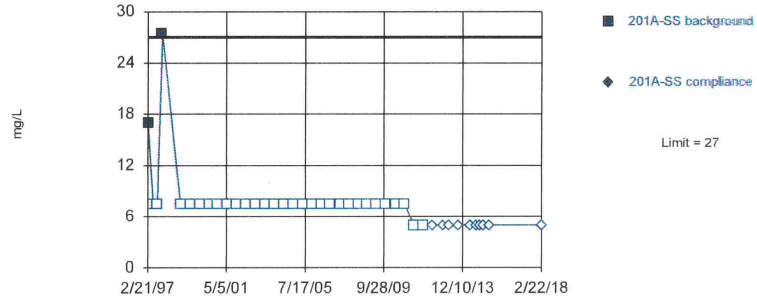
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 93.55% NDs. Well-constituent pair annual alpha = 0.007536. Individual comparison alpha = 0.001889 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM

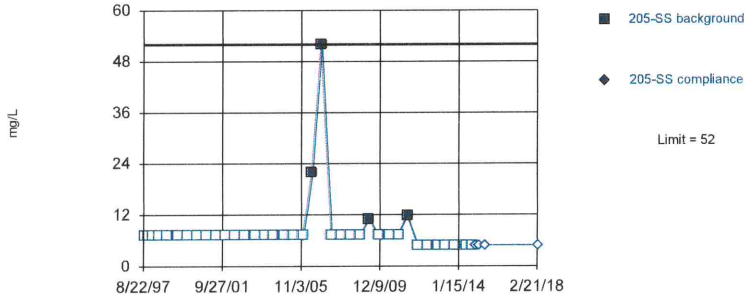
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 89.19% NDs. Well-constituent pair annual alpha = 0.005401. Individual comparison alpha = 0.001353 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 8:52 AM

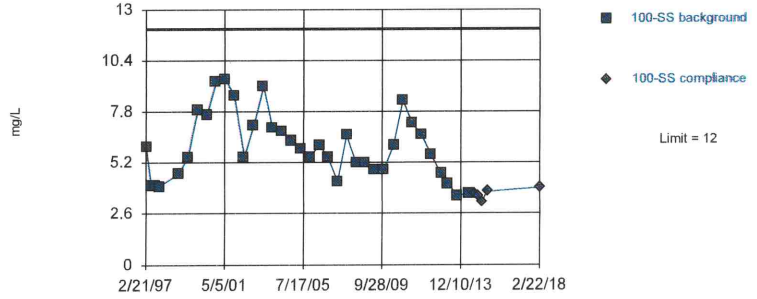
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.756, Std. Dev.=0.2758, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9656, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 4/13/2018 8:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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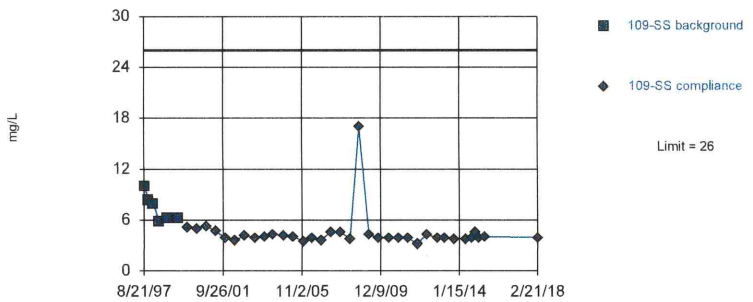
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.984, Std. Dev.=0.21, n=6. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9091, critical = 0.826. Kappa = 6.106 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 4/13/2018 8:52 AM

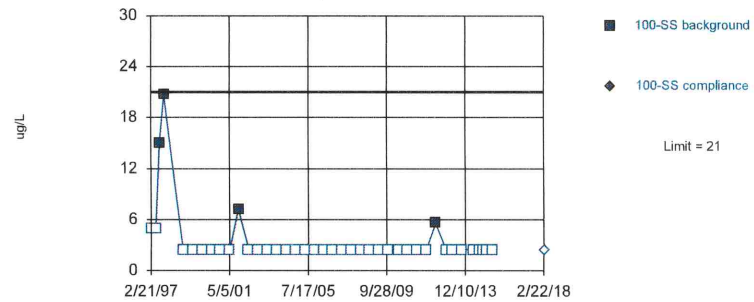
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM

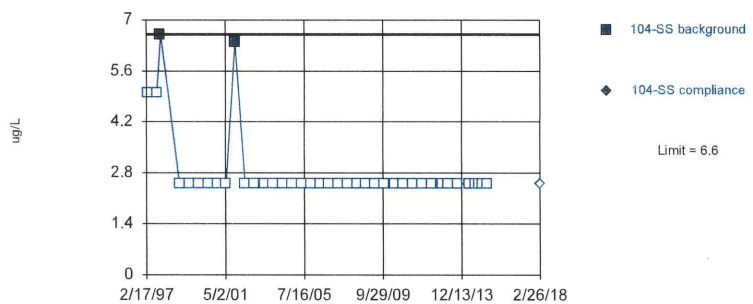
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM

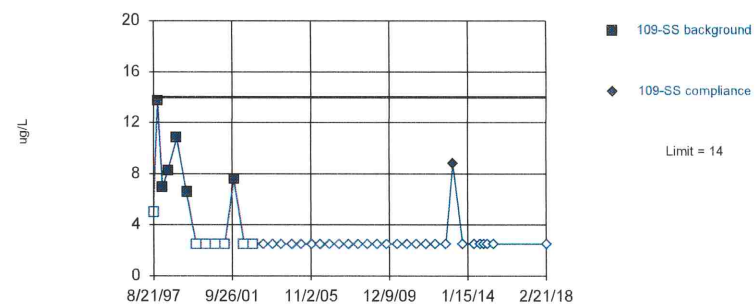
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.03689. Individual comparison alpha = 0.009354 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM

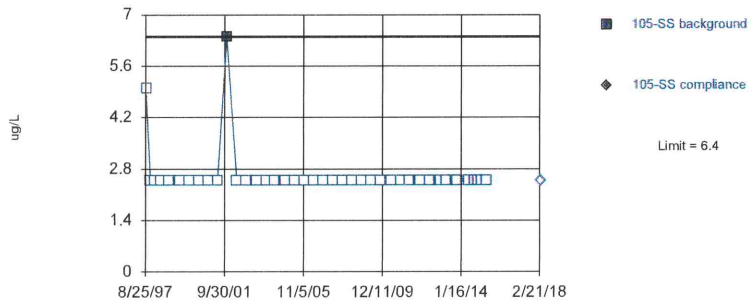
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM

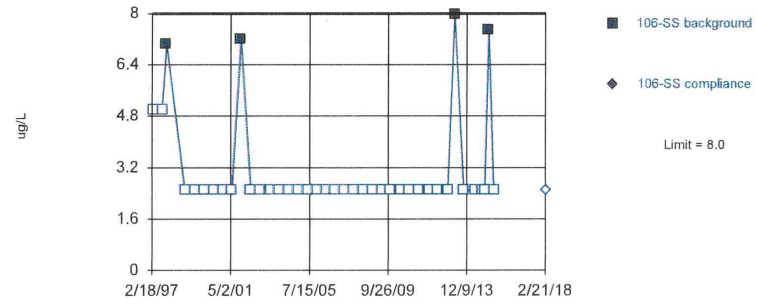
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM

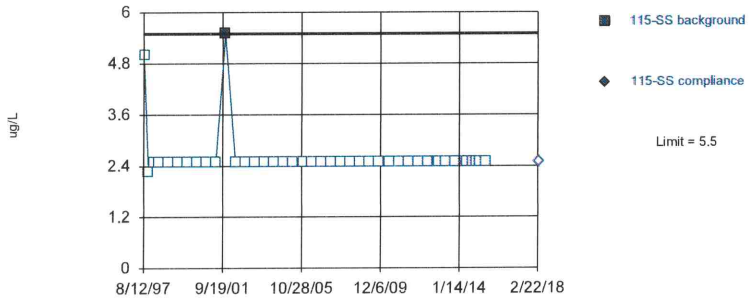
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM

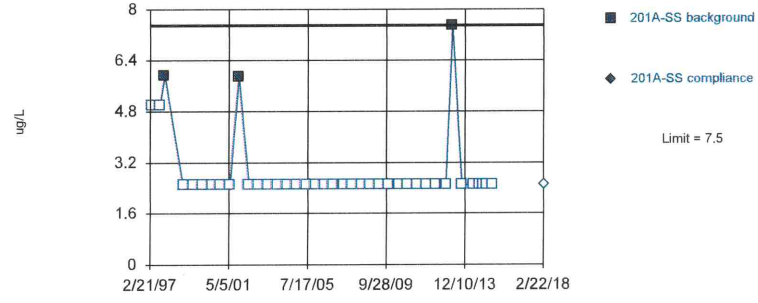
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM

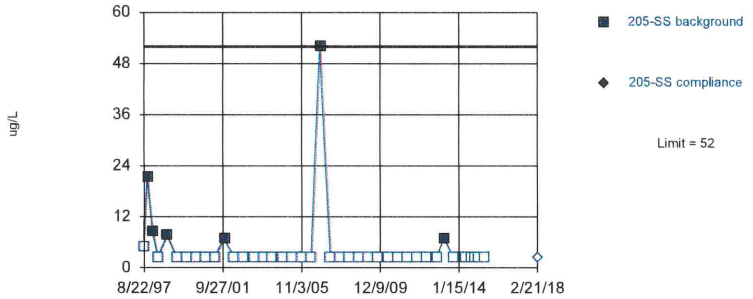
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

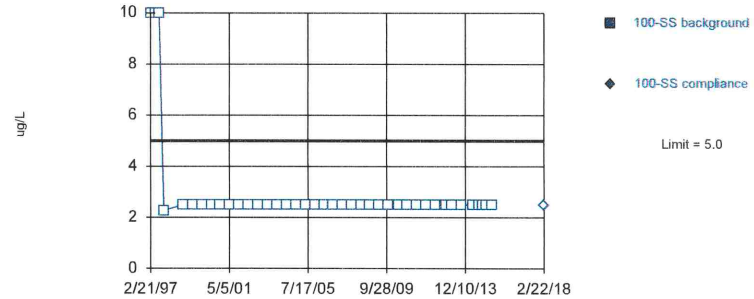
Constituent: Chromium Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

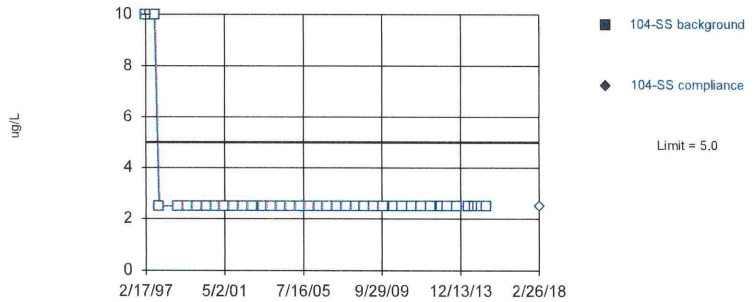
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

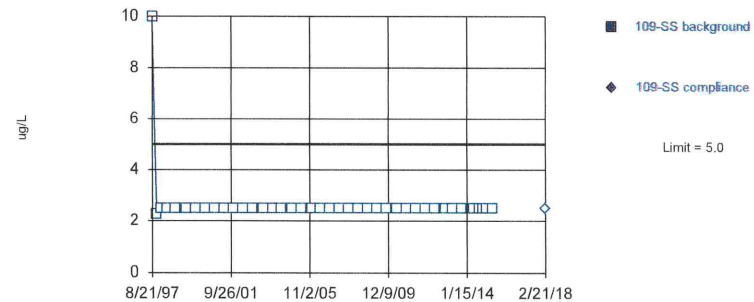
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

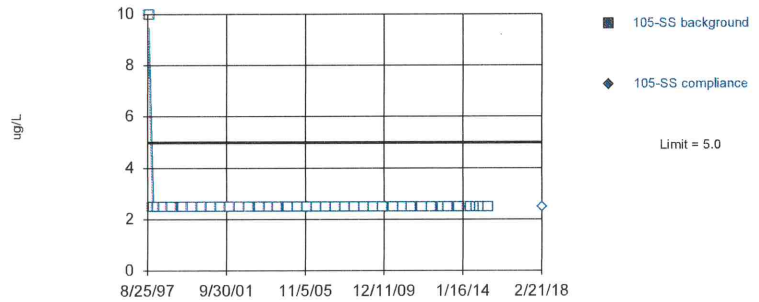
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

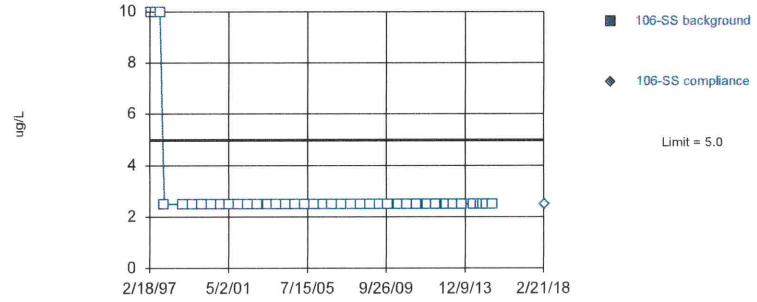
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

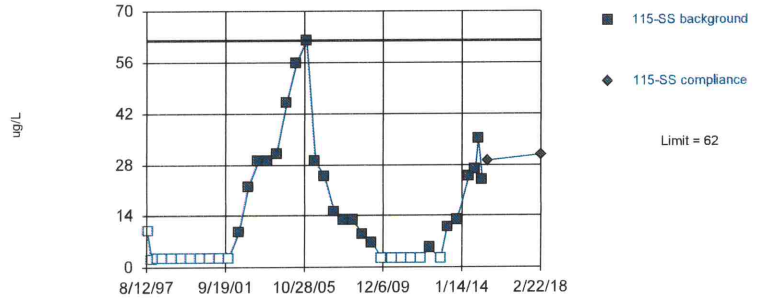
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 43.59% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

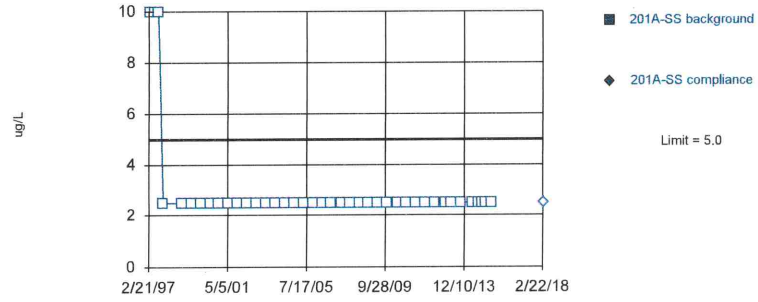
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

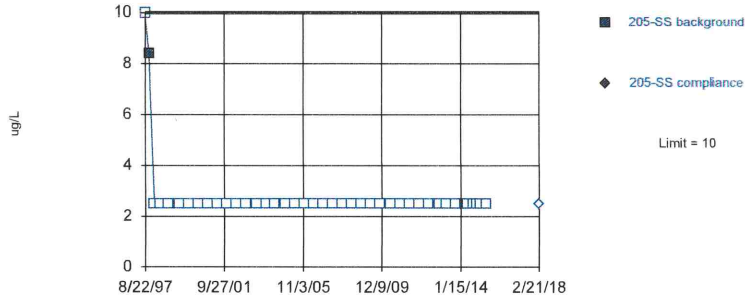
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

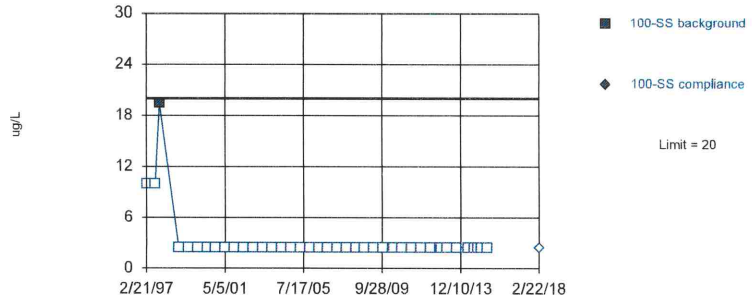
Constituent: Cobalt Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

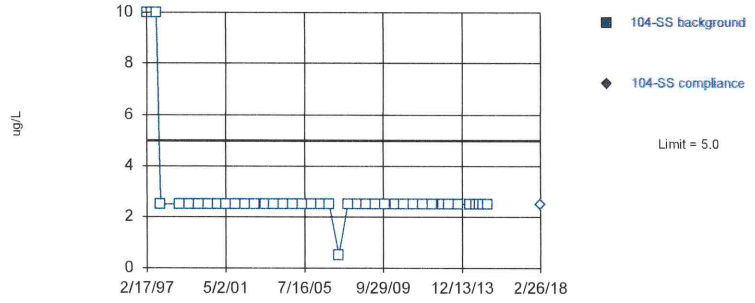
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

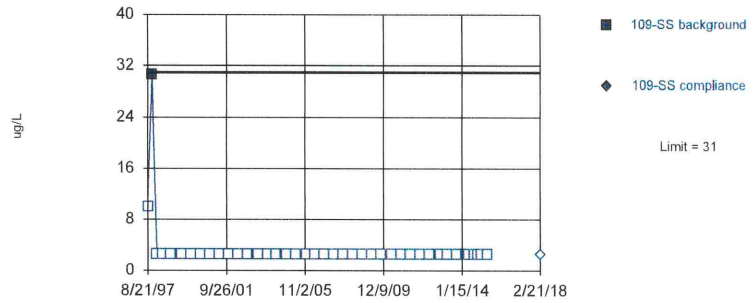
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

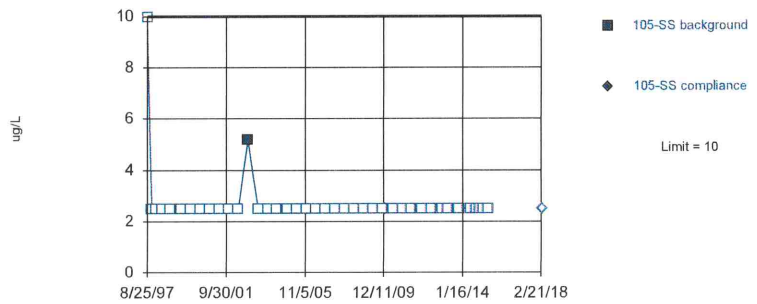
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

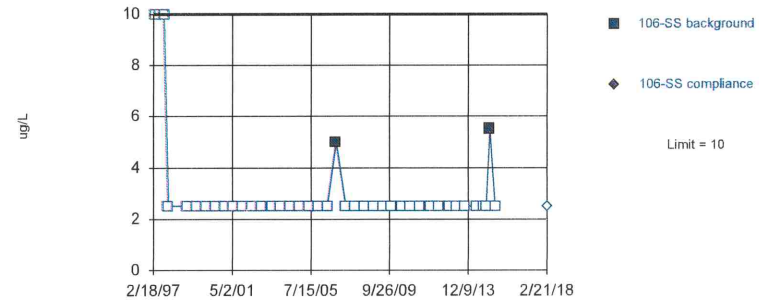
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

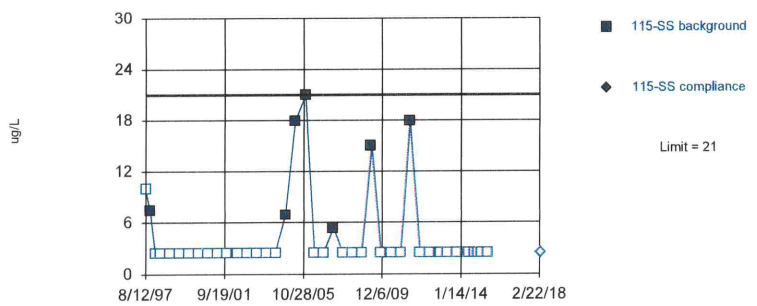
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

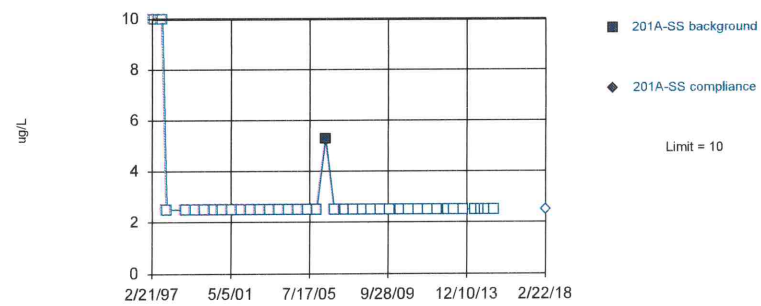
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

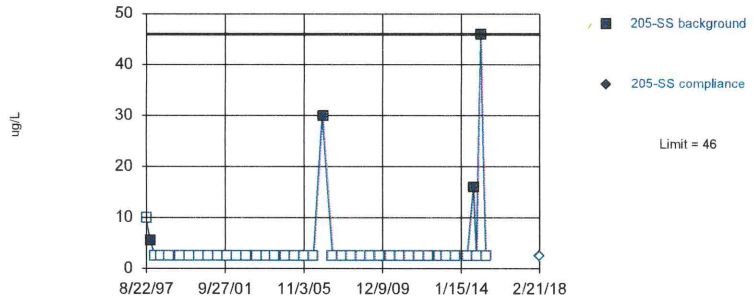
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

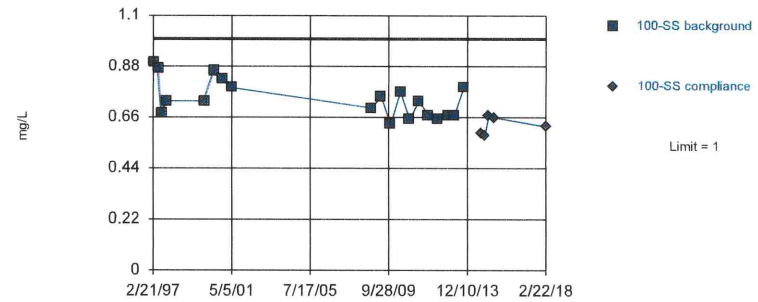
Constituent: Copper Total Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.3064, Std. Dev.=0.1075, n=19. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9456, critical = 0.901. Kappa = 2.972 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. Three background outliers were removed: 0.34 (11/12/1998); <0.25 (5/18/1999); 0.4 (5/28/2014).

Constituent: Fluoride Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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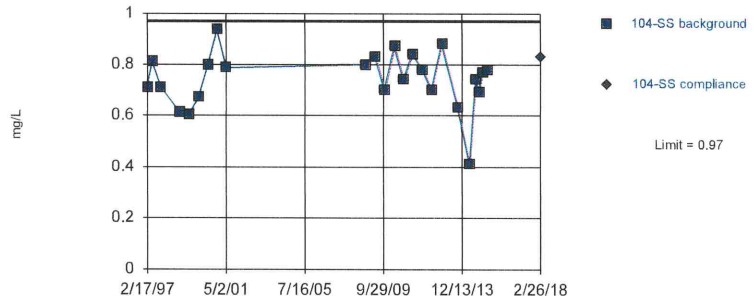
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=0.4327, Std. Dev.=0.1674, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9904, critical = 0.884. Kappa = 2.811 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: <0.25 (8/28/1997); 0.3 (4/11/2013).

Constituent: Fluoride Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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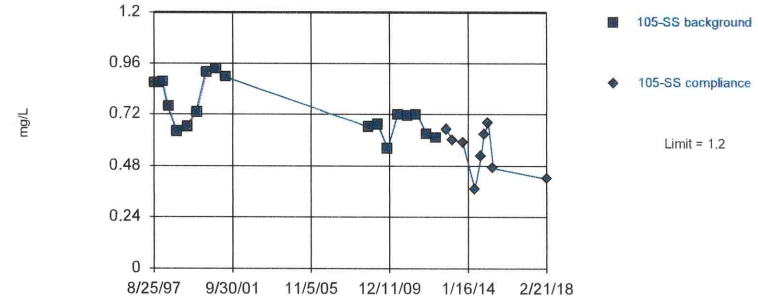
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.3047, Std. Dev.=0.157, n=18. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9322, critical = 0.897. Kappa = 3.02 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 4/13/2018 8:52 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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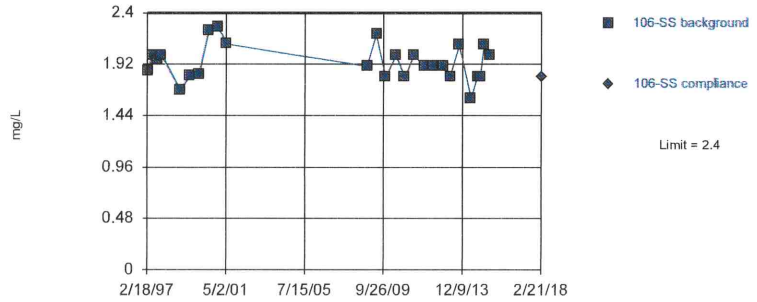
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.6576, Std. Dev.=0.08543, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.891. Kappa = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 4/13/2018 8:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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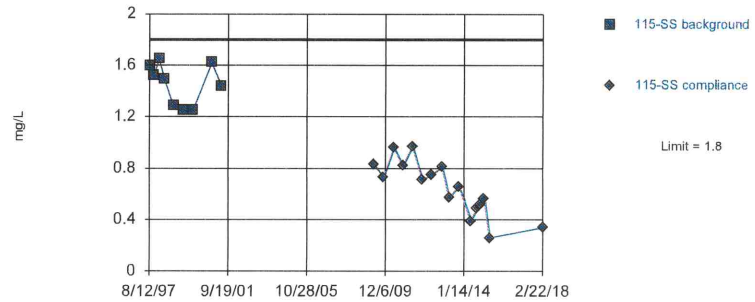
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=11.05, Std. Dev.=6.304, n=9. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.908, critical = 0.859. Kappa = 4.187 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. Two background outliers were removed: 0.3 (5/23/2000); 0.71 (11/5/2008).

Constituent: Fluoride Analysis Run 4/13/2018 8:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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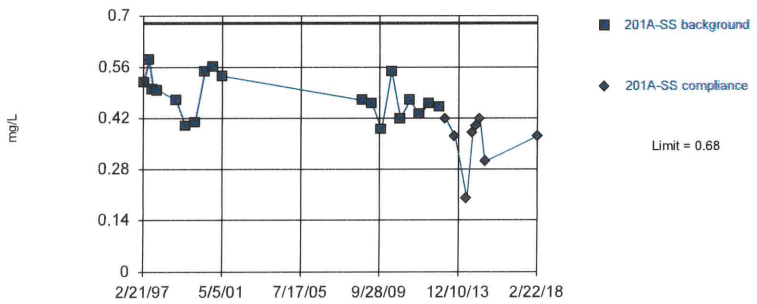
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.74, Std. Dev.=0.1201, n=19. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9605, critical = 0.901. Kappa = 2.972 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 4/13/2018 8:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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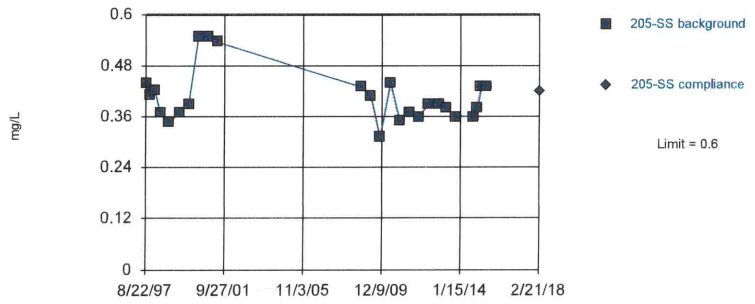
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.909, Std. Dev.=0.1421, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9114, critical = 0.888. Kappa = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 0.18 (5/28/2014).

Constituent: Fluoride Analysis Run 4/13/2018 8:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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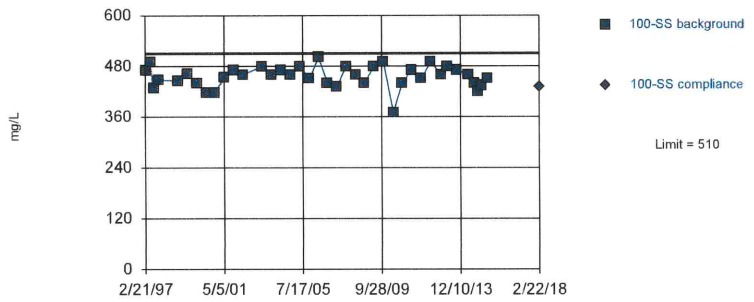
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=2.0e13, Std. Dev.=5.2e12, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9827, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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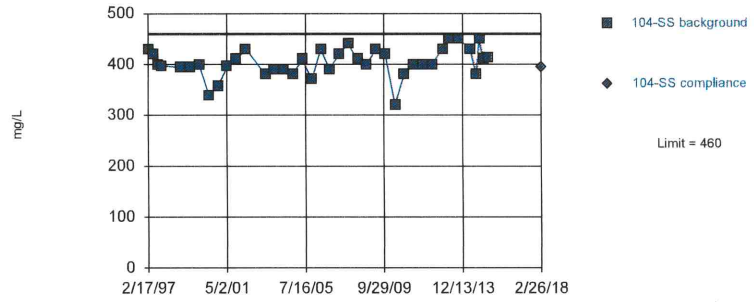
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=2.7e10, Std. Dev.=7.1e9, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9686, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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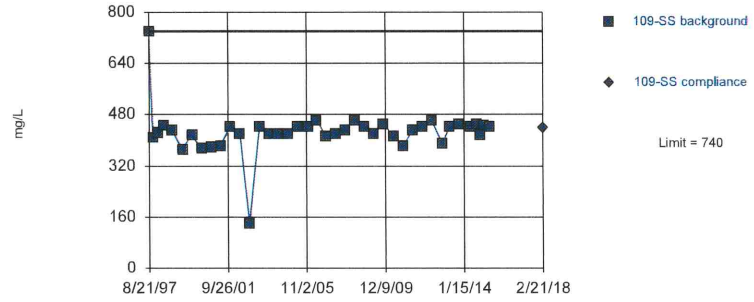
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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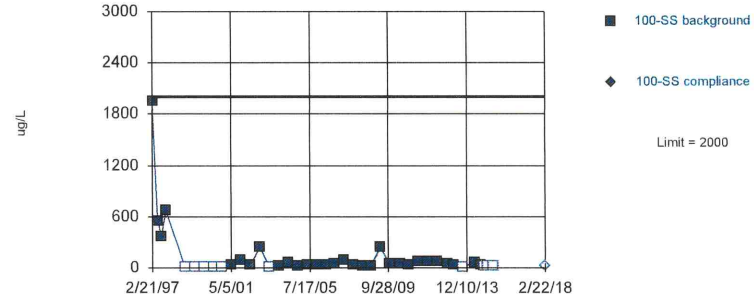
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 25% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Iron Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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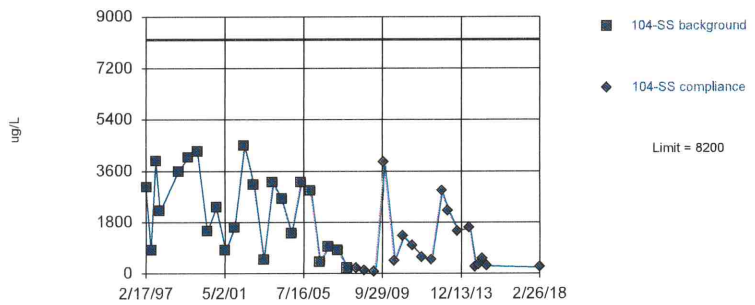
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=44.82, Std. Dev.=16.07, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.881. Kappa = 2.839 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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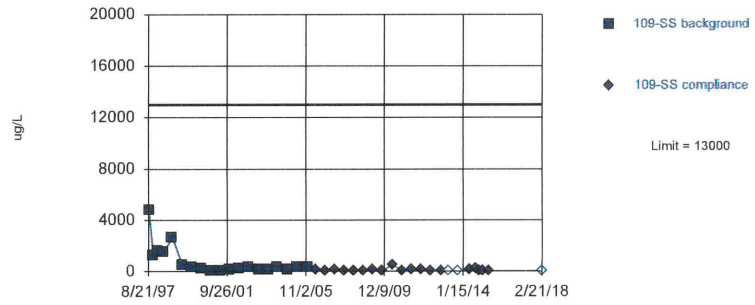
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.9, Std. Dev.=1.21, n=19. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.924, critical = 0.901. Kappa = 2.972 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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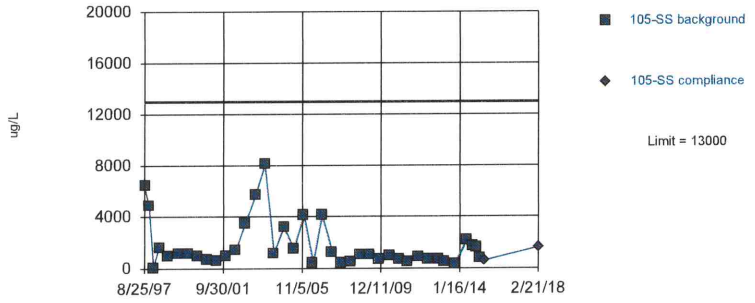
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.068, Std. Dev.=0.9247, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9613, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 8:53 AM

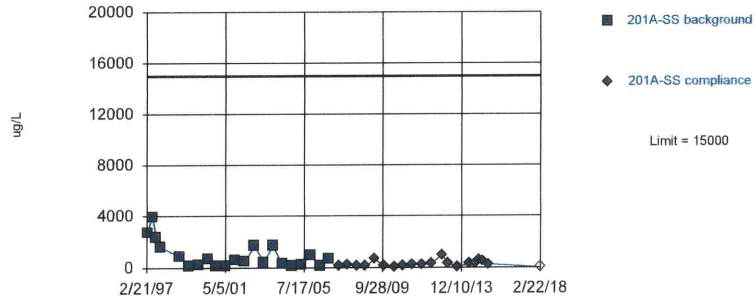
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.316, Std. Dev.=1.137, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.873. Kappa = 2.896 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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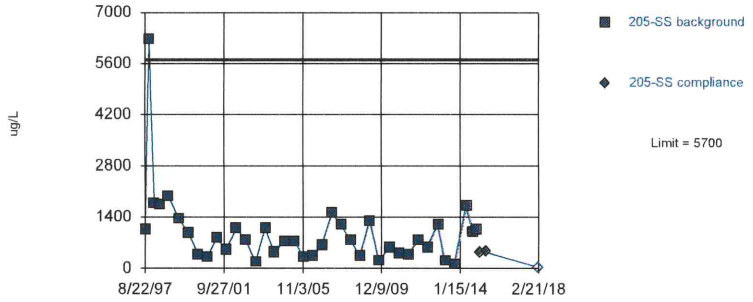
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.552, Std. Dev.=0.8042, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9809, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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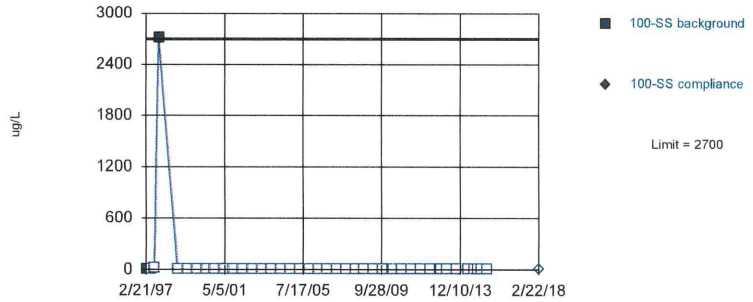
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

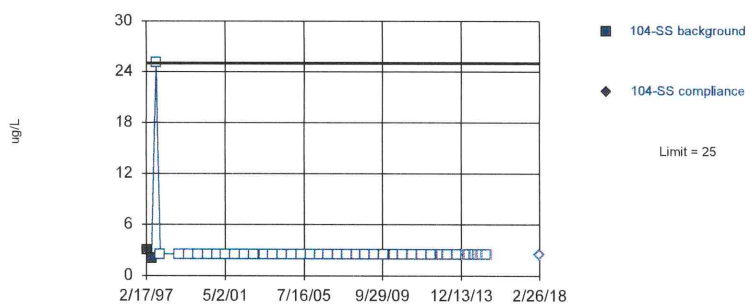
Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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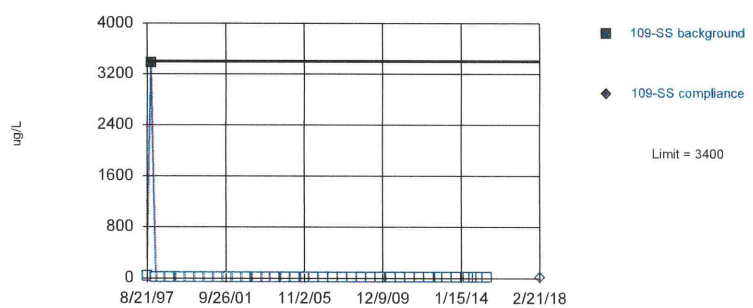
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

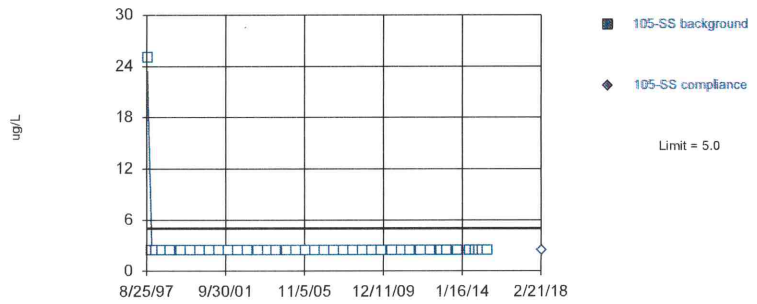
Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM

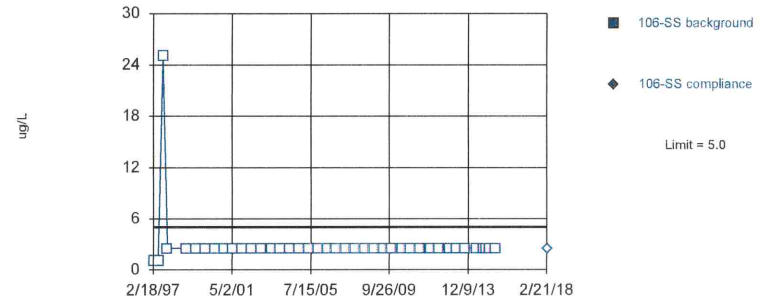
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM

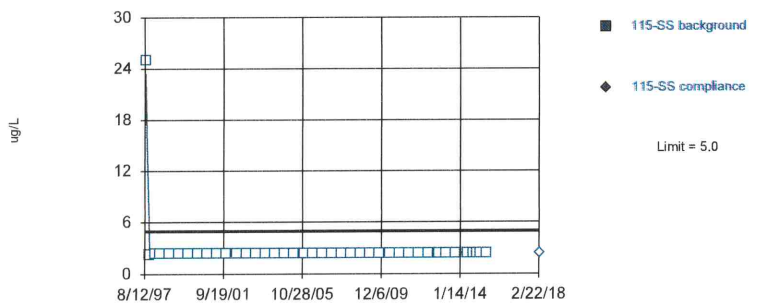
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM

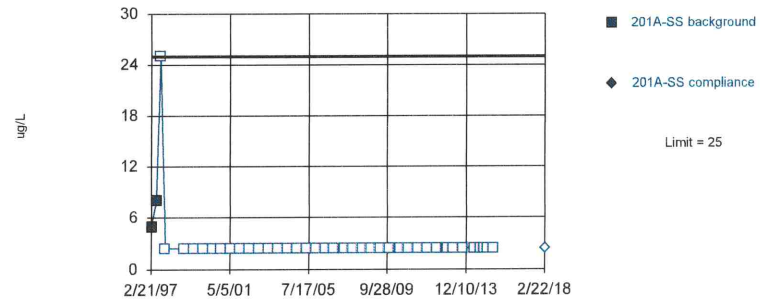
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM

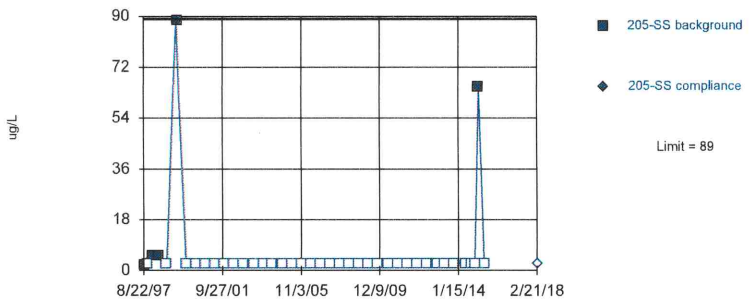
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

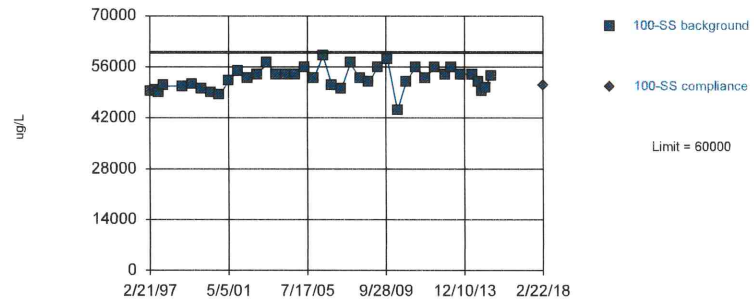
Constituent: Lead Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.5e14, Std. Dev.=2.5e13, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9819, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

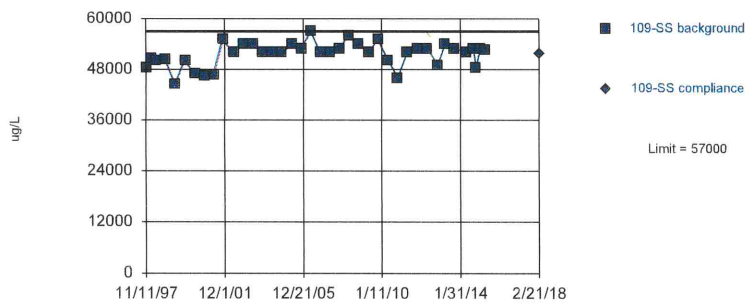
Constituent: Magnesium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=2.0e28, Std. Dev.=5.9e27, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9685, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 74000 (8/21/1997).

Constituent: Magnesium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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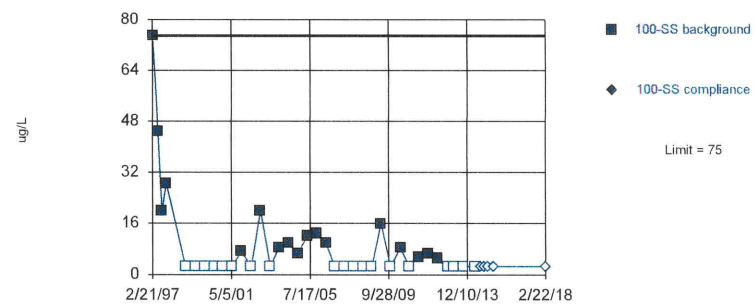
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 52.78% NDs. Well-constituent pair annual alpha = 0.005668. Individual comparison alpha = 0.00142 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

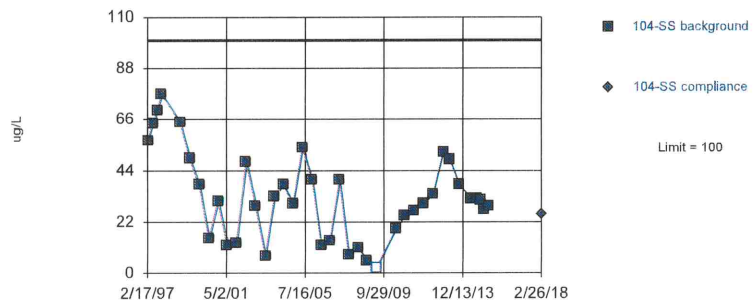
Constituent: Manganese Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.486, Std. Dev.=1.746, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9696, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 160 (11/4/2009).

Constituent: Manganese Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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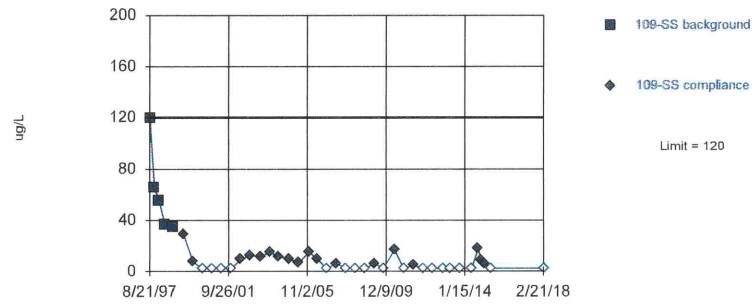
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used after natural log transformation resulted in a parametric limit of 6804, which exceeds 10 times the highest background value (user-adjustable cutoff). Limit is highest of 5 background values. Well-constituent pair annual alpha = 0.1582. Individual comparison alpha = 0.04213 (1 of 2). EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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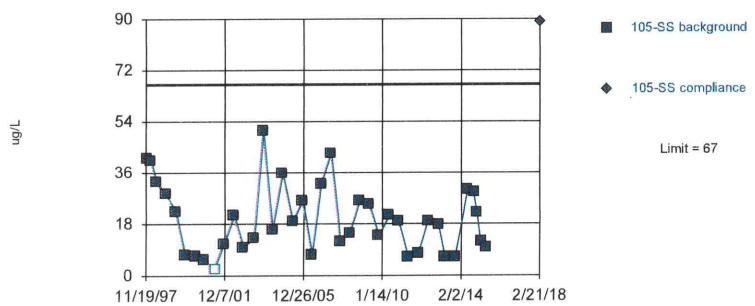
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.59, Std. Dev.=0.5683, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 240 (8/25/1997).

Constituent: Manganese Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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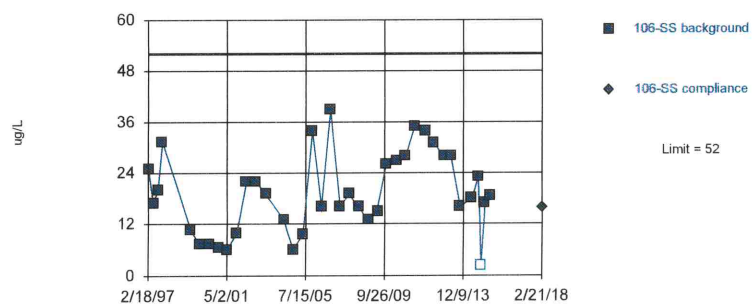
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=4.249, Std. Dev.=1.13, n=38, 2.632% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 84.2 (11/11/1998); 270 (11/20/2003).

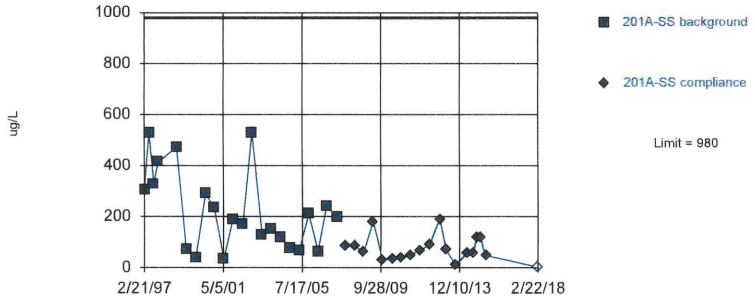
Constituent: Manganese Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=5.702, Std. Dev.=1.475, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9633, critical = 0.878. Kappa = 2.868 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

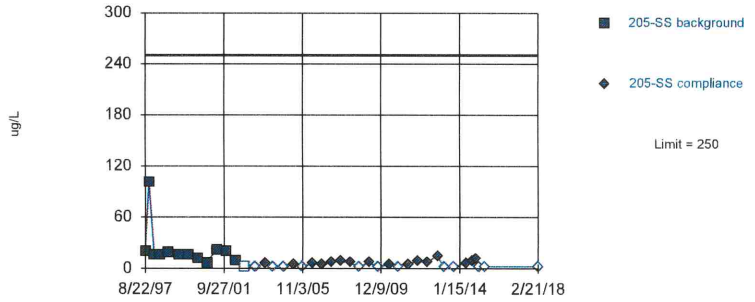
Constituent: Manganese Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.701, Std. Dev.=0.8245, n=13, 7.692% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8776, critical = 0.866. Kappa = 3.402 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

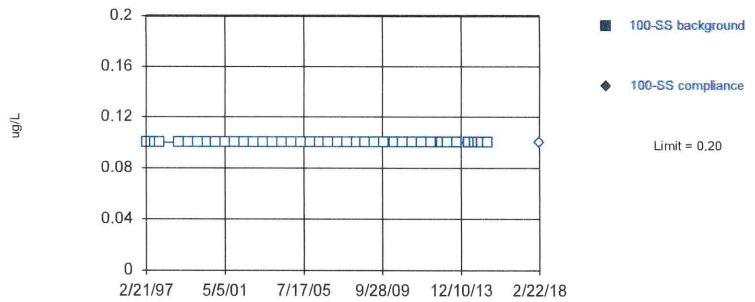
Constituent: Manganese Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

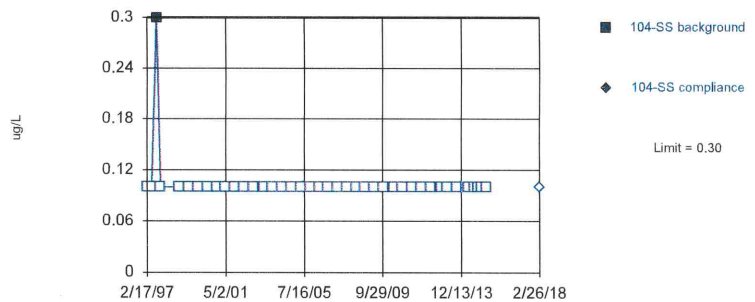
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

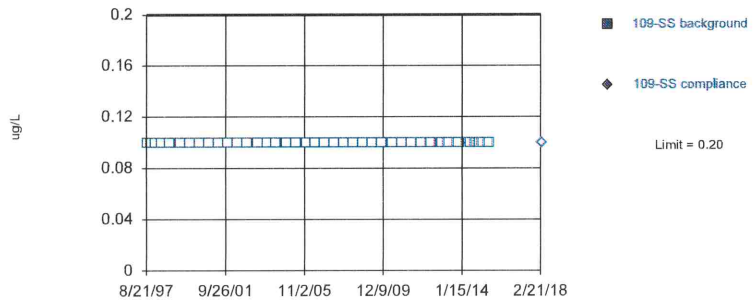
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

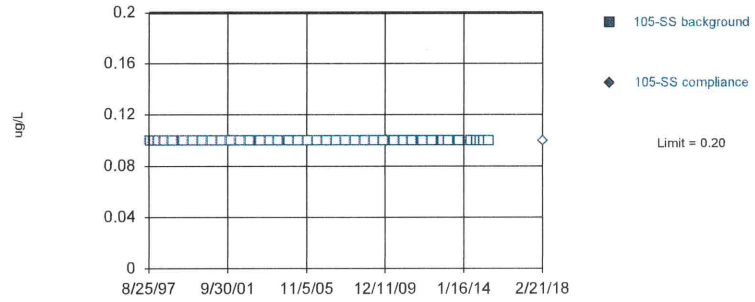
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

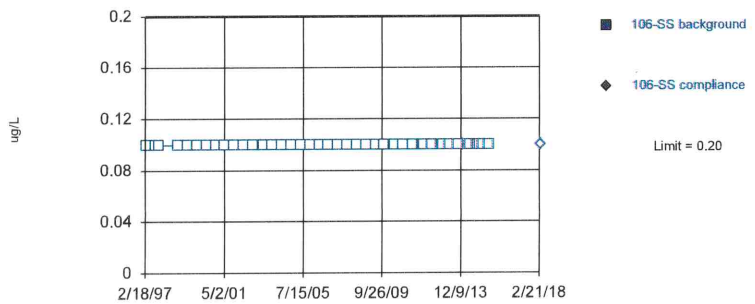
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

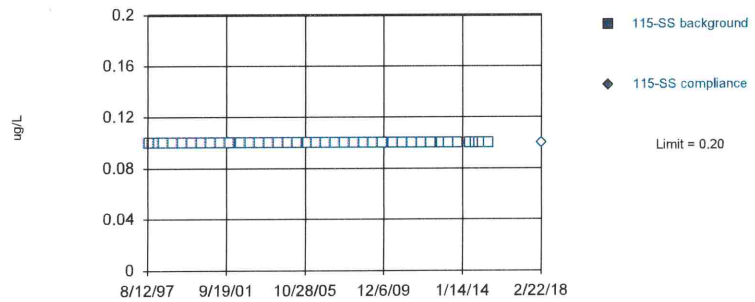
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

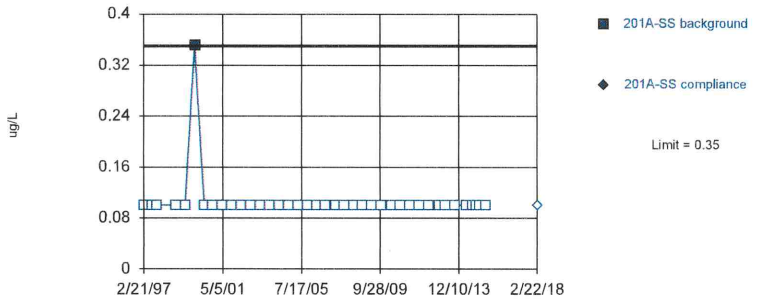
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

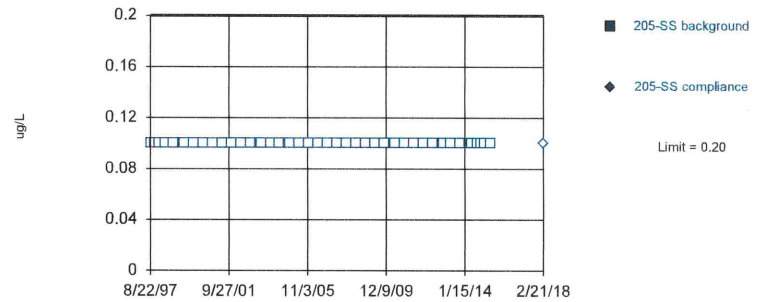
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

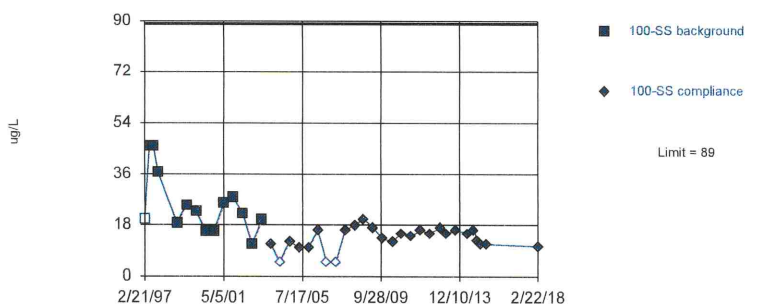
Constituent: Mercury Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.151, Std. Dev.=0.4058, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9597, critical = 0.874. Kappa = 3.306 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

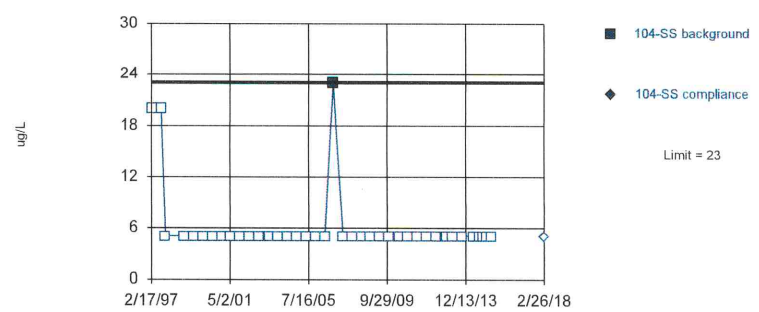
Constituent: Nickel Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

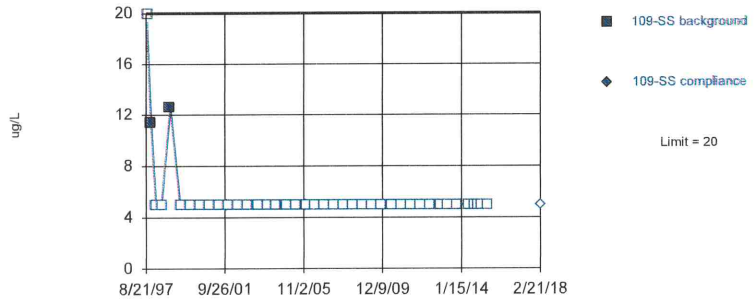
Constituent: Nickel Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

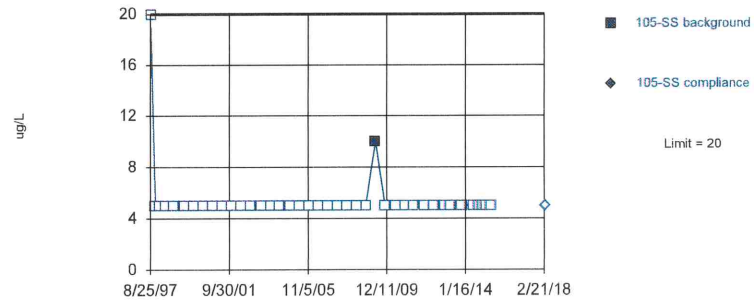
Constituent: Nickel Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

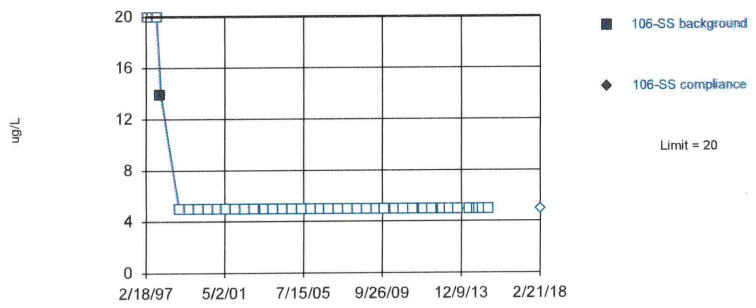
Constituent: Nickel Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

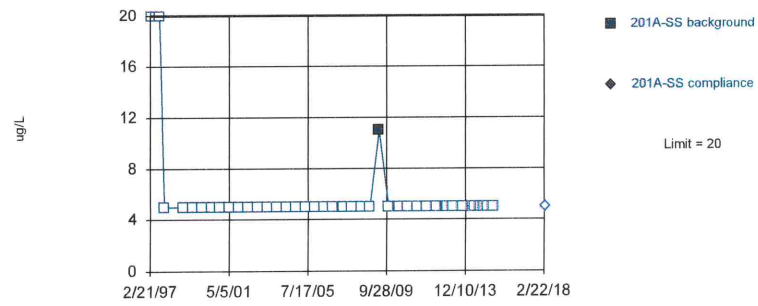
Constituent: Nickel Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

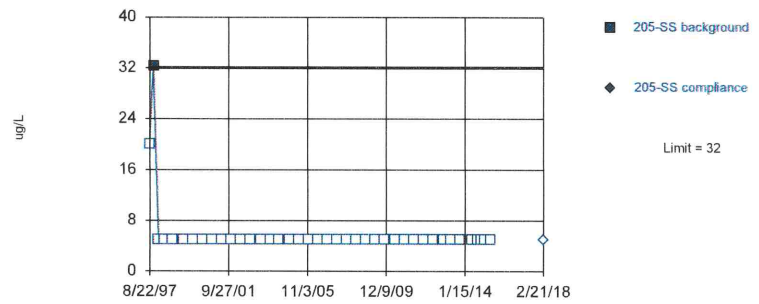
Constituent: Nickel Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

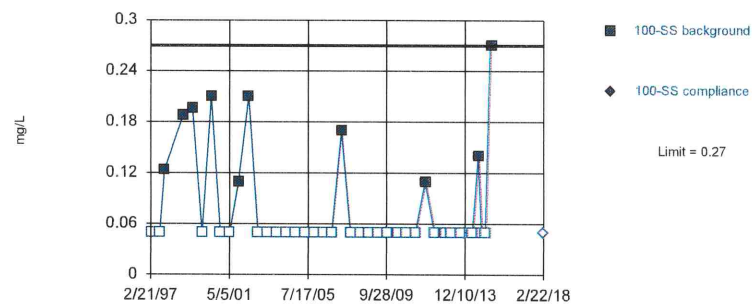
Constituent: Nickel Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

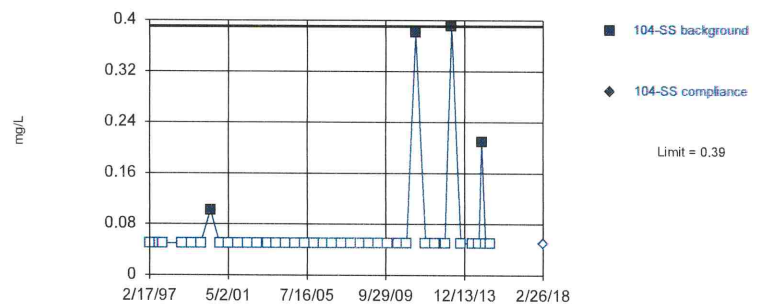
Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

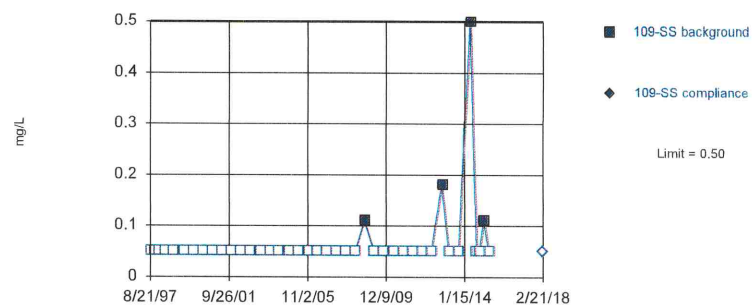
Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

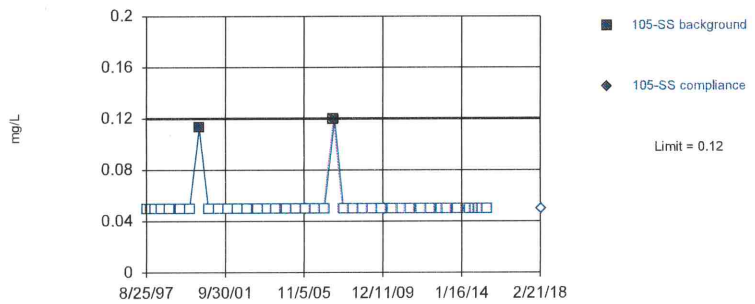
Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

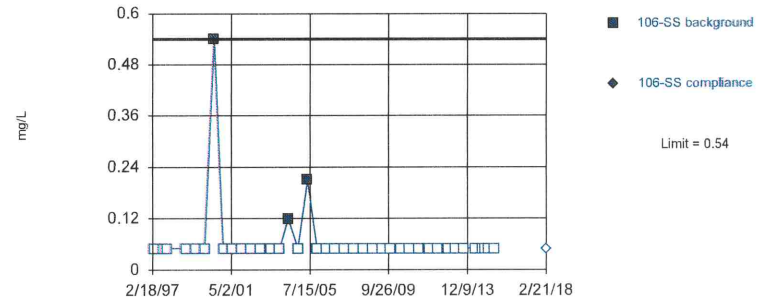
Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

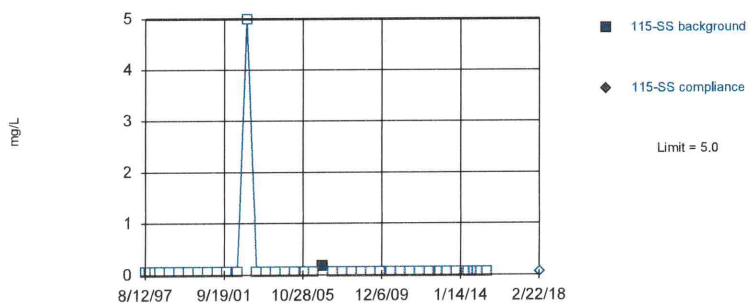
Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

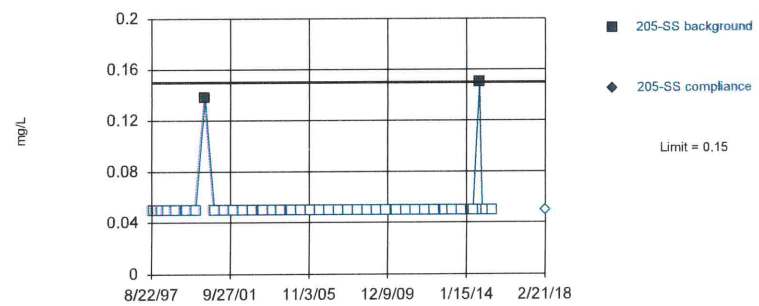
Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

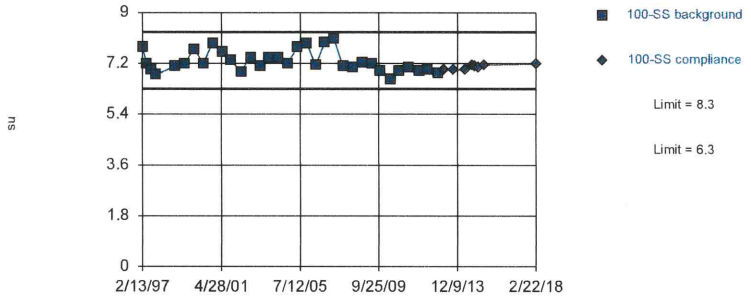
Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.982, Std. Dev.=0.05005, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9386, critical = 0.906. Kappa = 2.662 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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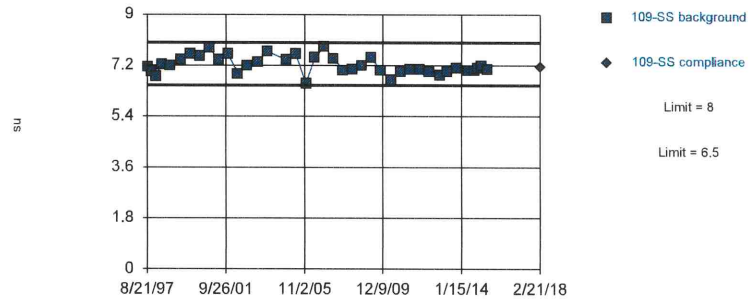
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.04155, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 10.9 (5/11/2004).

Constituent: pH [Field] Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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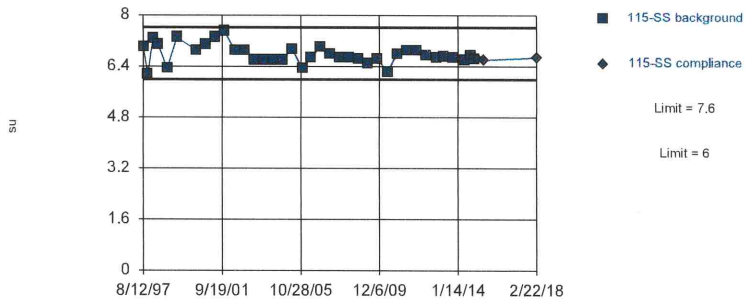
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.913, Std. Dev.=0.04357, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 7.9 (11/19/1999).

Constituent: pH [Field] Analysis Run 4/13/2018 8:53 AM

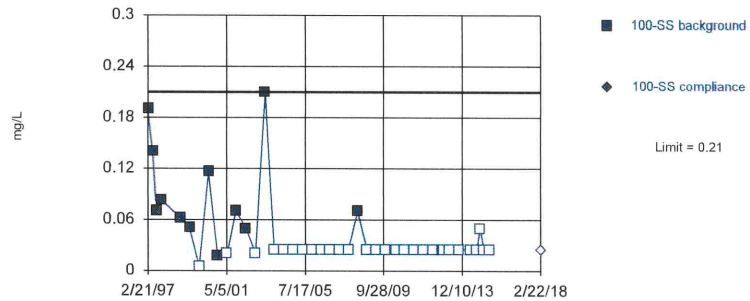
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Phosphorus Total Analysis Run 4/13/2018 8:53 AM

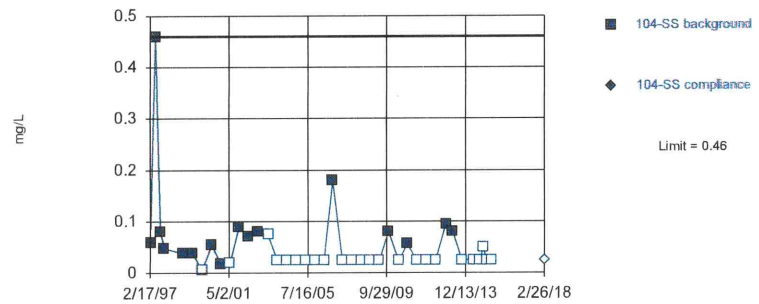
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 60% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

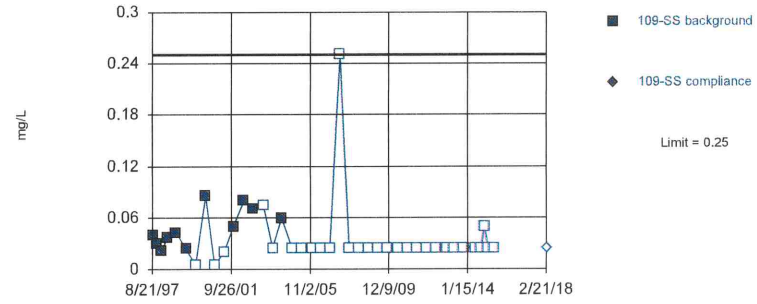
Constituent: Phosphorus Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

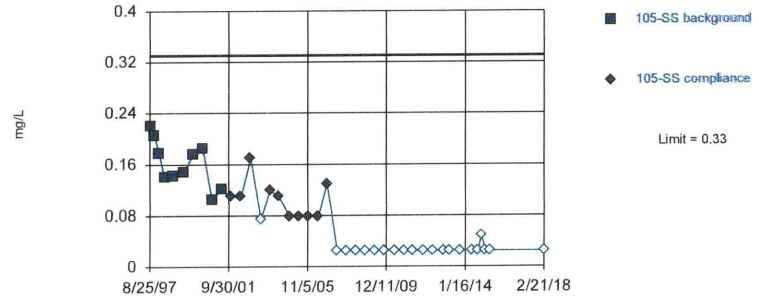
Constituent: Phosphorus Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.4001, Std. Dev.=0.04604, n=10. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9681, critical = 0.842. Kappa = 3.856 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

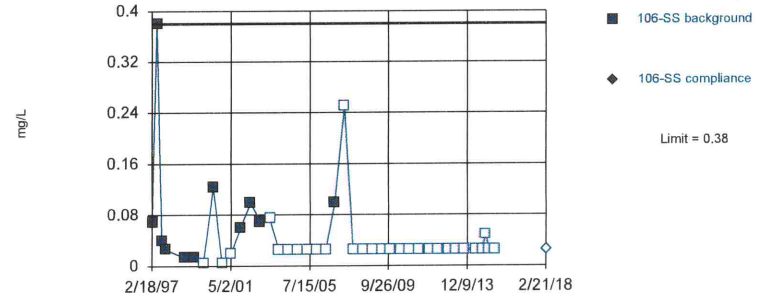
Constituent: Phosphorus Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

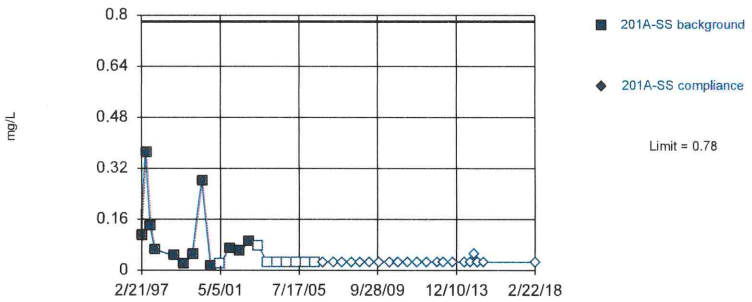
Constituent: Phosphorus Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-3.04, Std. Dev.=0.9527, n=20, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9179, critical = 0.868. Kappa = 2.924 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 4/13/2018 8:53 AM

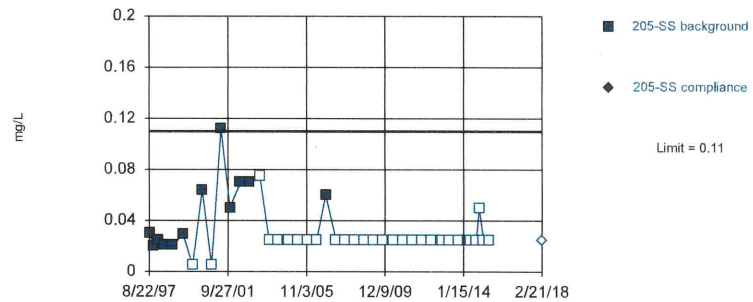
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 4/13/2018 8:53 AM

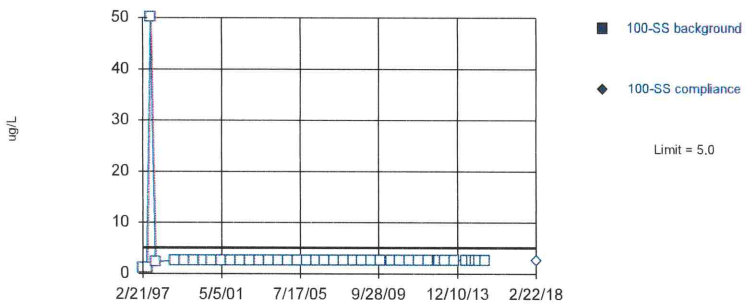
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM

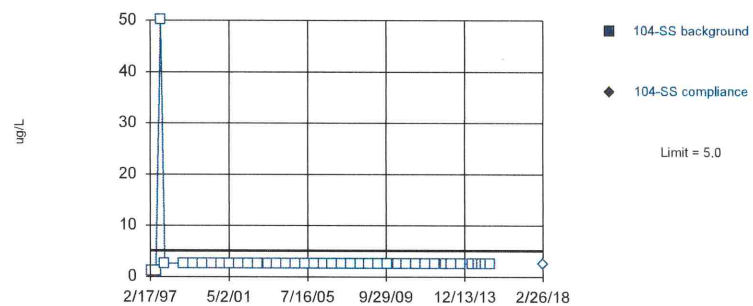
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM

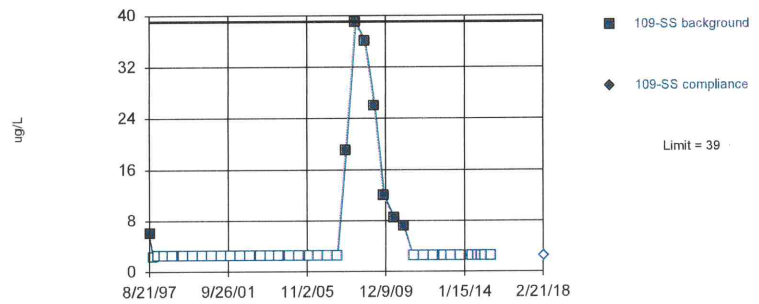
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

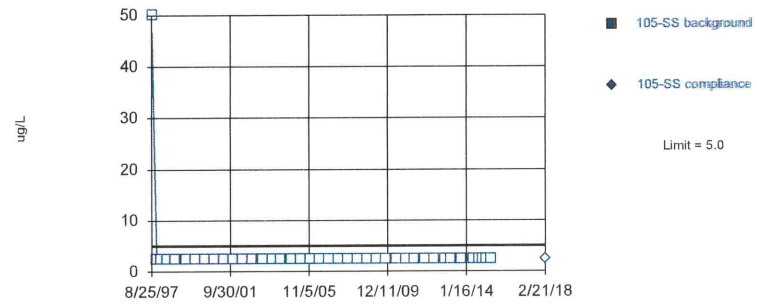
Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

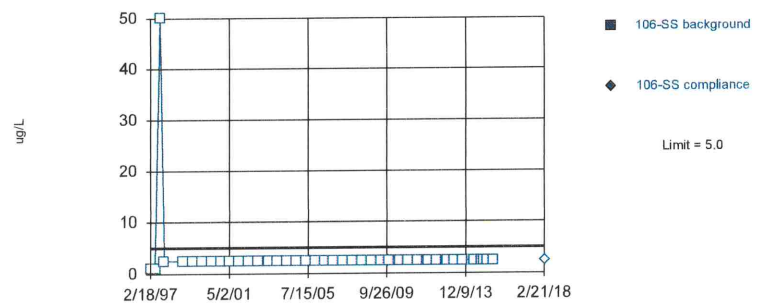
Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

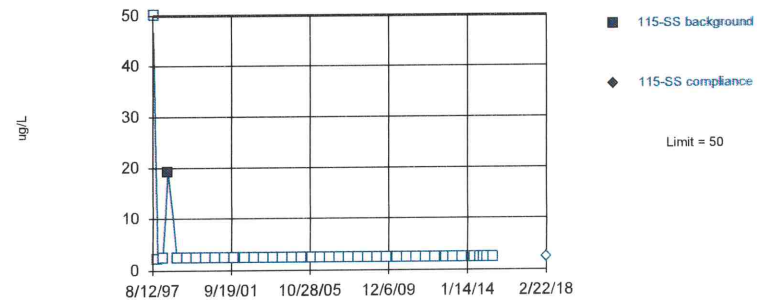
Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

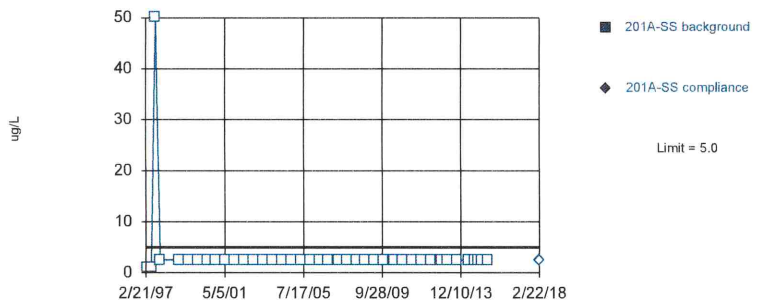
Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

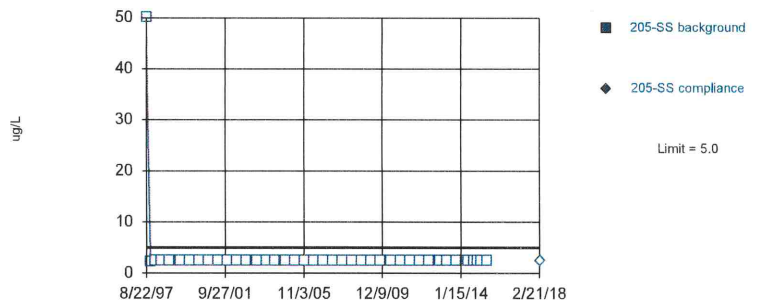
Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

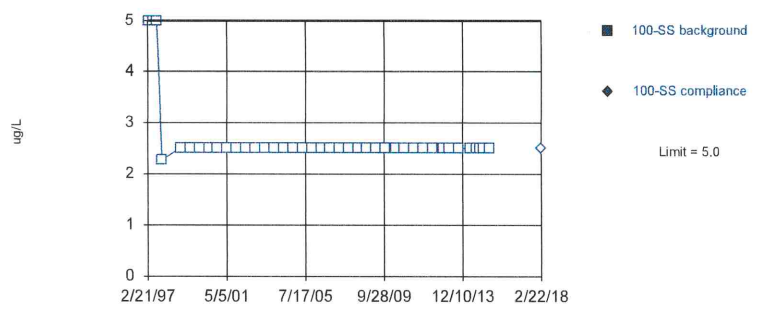
Constituent: Selenium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

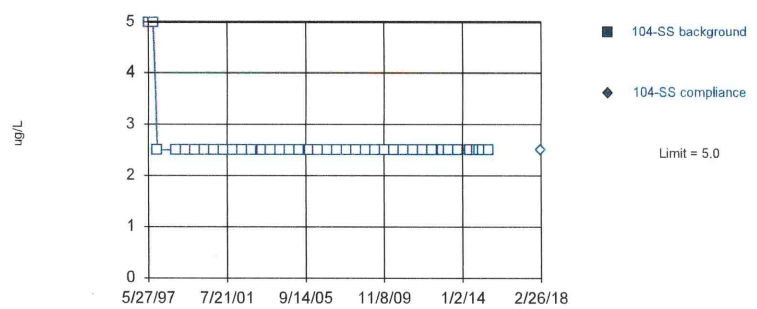
Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 39) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

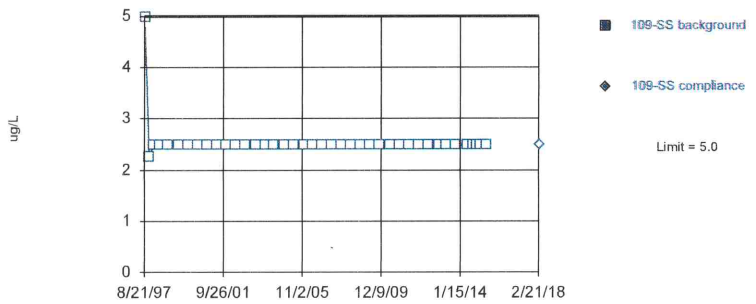
Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM

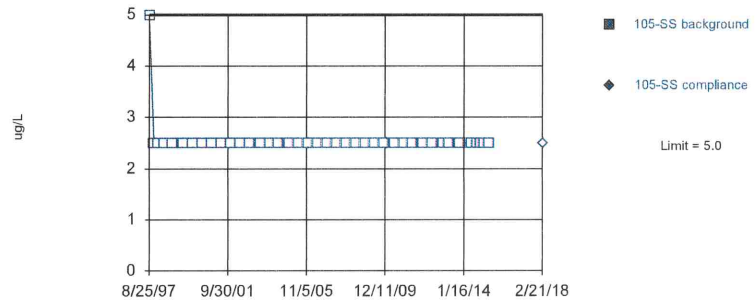
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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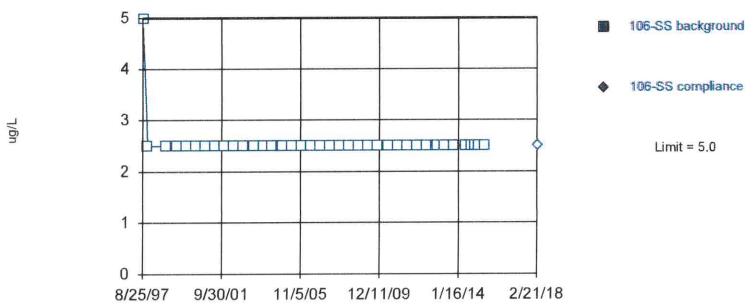
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 38) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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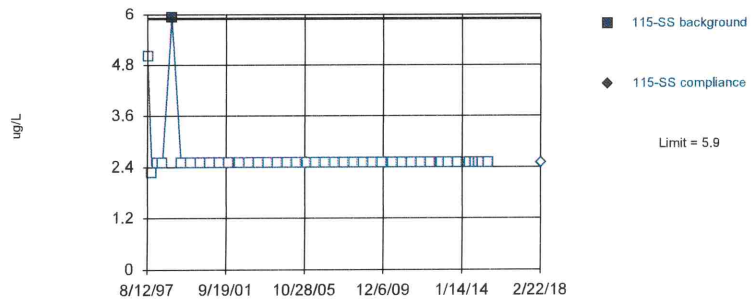
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM

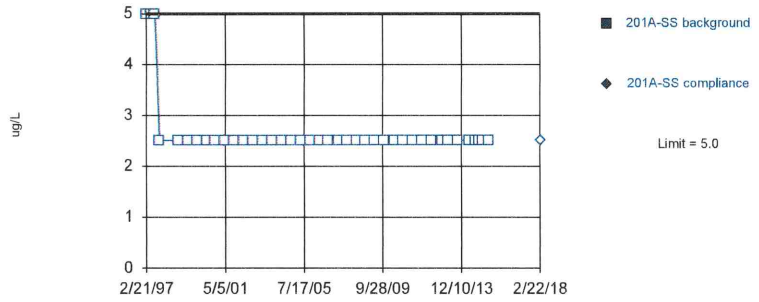
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

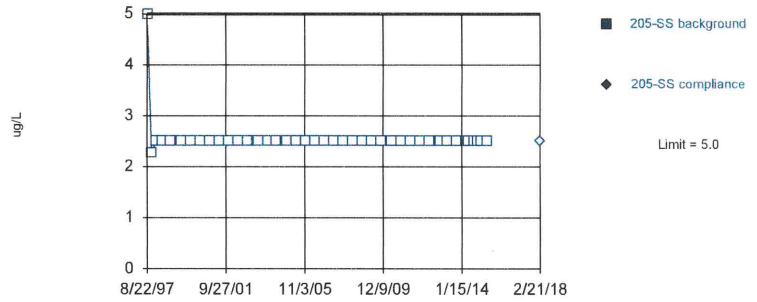
Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

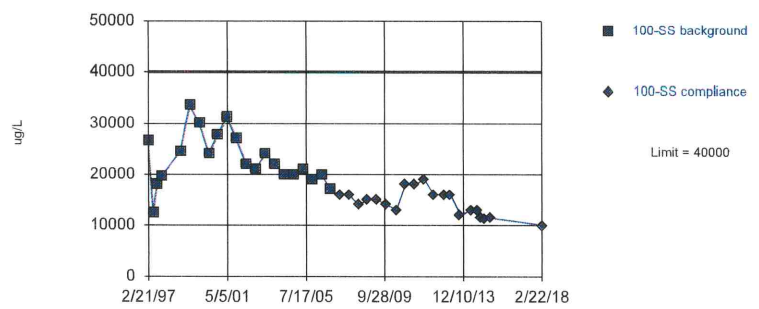
Constituent: Silver Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=150.5, Std. Dev.=16.91, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9752, critical = 0.873. Kappa = 2.896 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

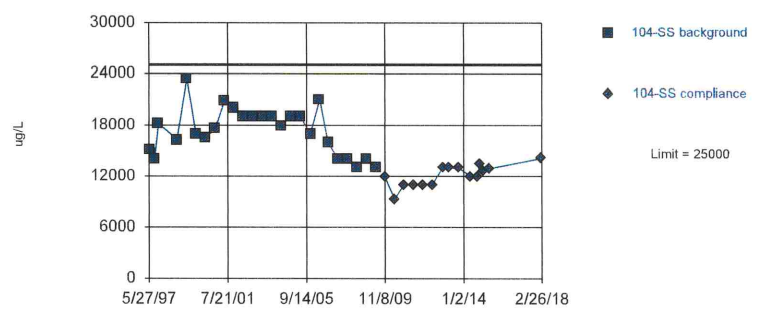
Constituent: Sodium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=17316, Std. Dev.=2730, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.955, critical = 0.888. Kappa = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 34800 (2/17/1997).

Constituent: Sodium Total Analysis Run 4/13/2018 8:53 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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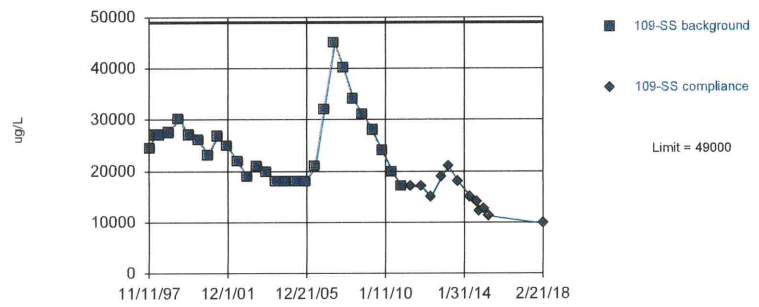
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.11, Std. Dev.=0.2498, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.953, critical = 0.896. Kappa = 2.731 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 68000 (8/21/1997).

Constituent: Sodium Total Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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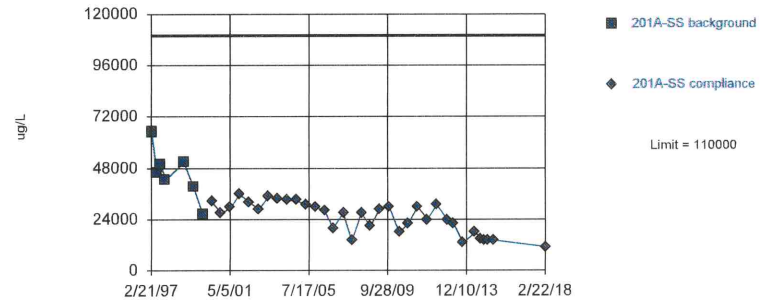
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=45843, Std. Dev.=11902, n=7. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9716, critical = 0.838. Kappa = 5.312 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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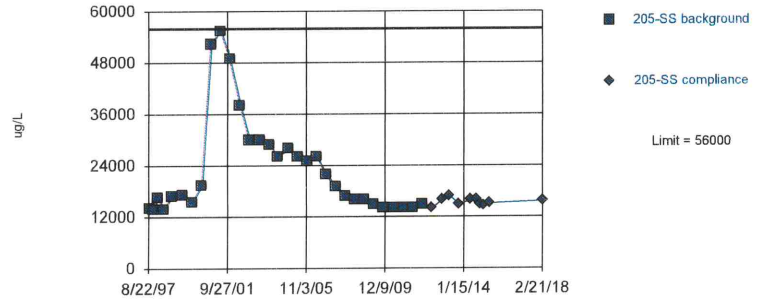
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. Well-constituent pair annual alpha = 0.007536. Individual comparison alpha = 0.001889 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Sodium Total Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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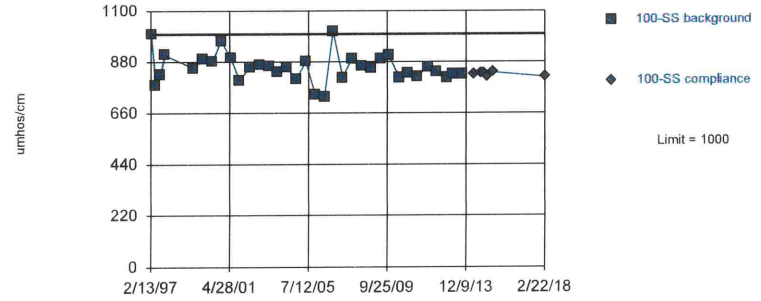
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.75, Std. Dev.=0.07049, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9573, critical = 0.908. Kappa = 2.65 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 1080 (11/12/1998).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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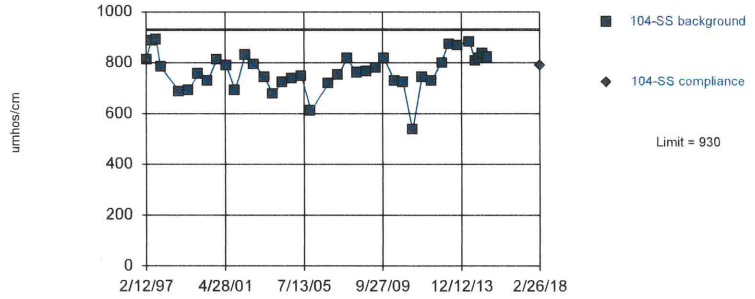
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=4.6e8, Std. Dev.=1.3e8, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 468 (5/25/2006).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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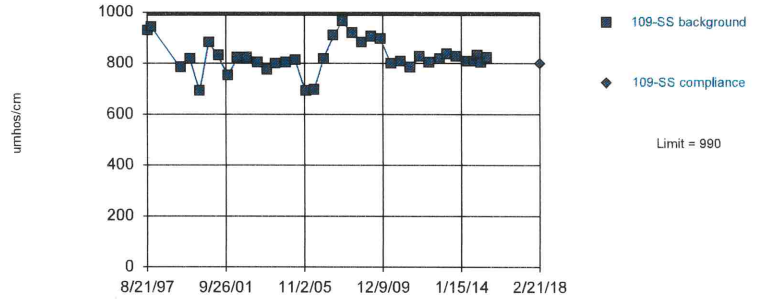
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=824, Std. Dev.=63.94, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.922, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Three background outliers were removed: 1270 (2/13/1998); 1260 (5/29/1998); 1190 (11/14/1998).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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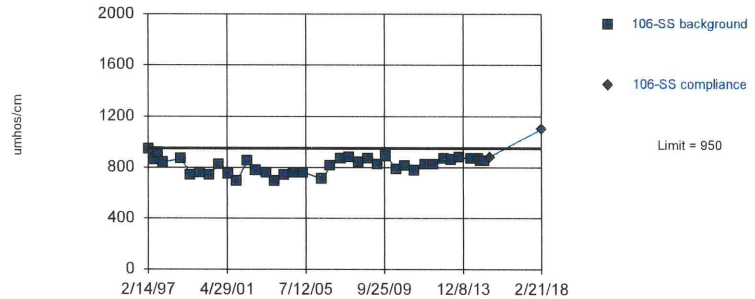
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=4.6e11, Std. Dev.=1.3e11, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 595 (11/29/2005).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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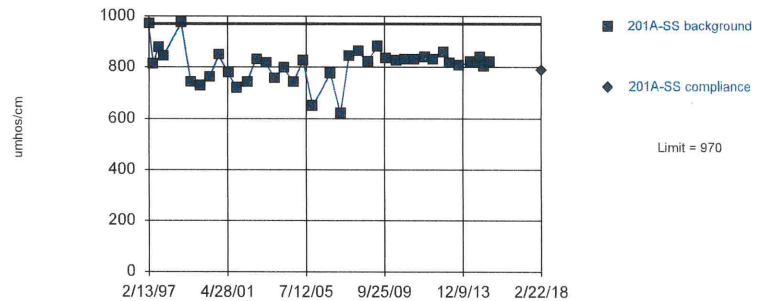
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=660296, Std. Dev.=108124, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9237, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 465 (5/25/2006).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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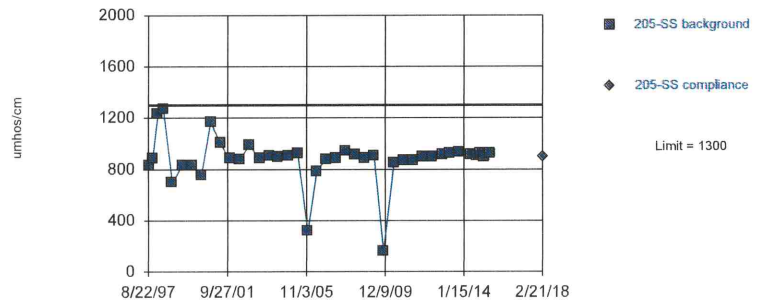
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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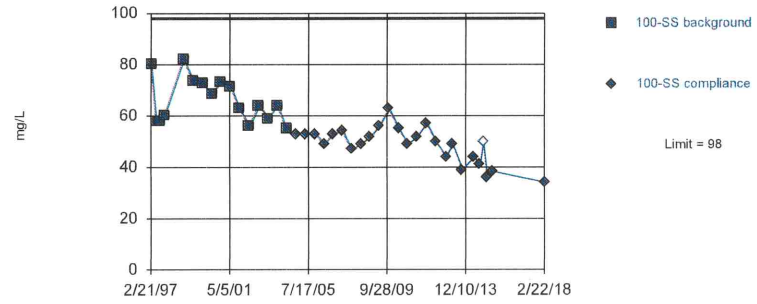
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.185, Std. Dev.=0.1275, n=16. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9393, critical = 0.887. Kappa = 3.115 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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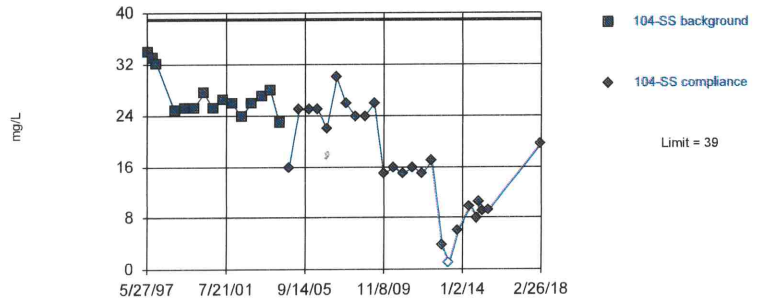
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.297, Std. Dev.=0.116, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8896, critical = 0.881. Kappa = 3.211 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 45 (2/17/1997).

Constituent: Sulfate Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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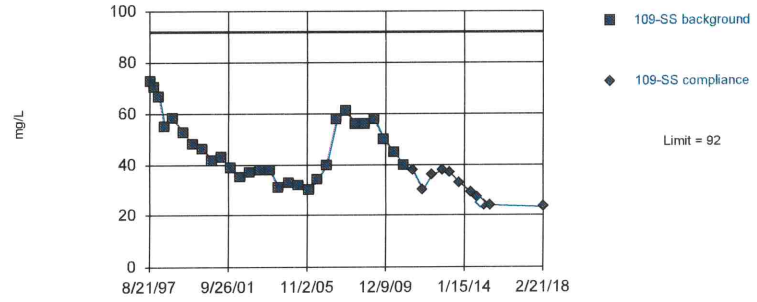
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.821, Std. Dev.=0.2579, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9561, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 4/13/2018 8:54 AM

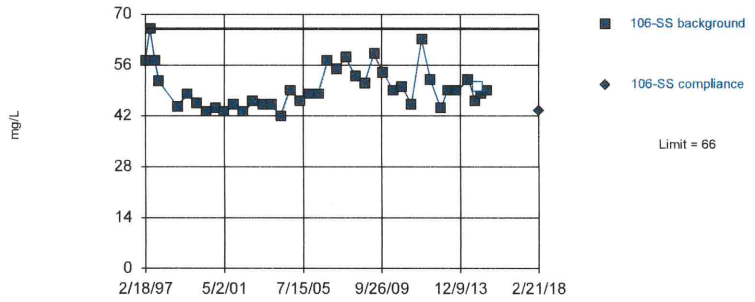
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.901, Std. Dev.=0.1104, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

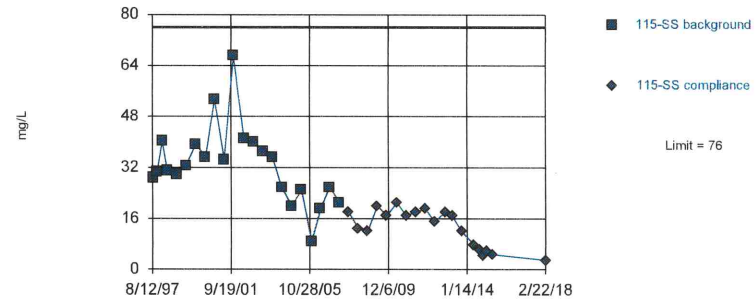
Constituent: Sulfate Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.632, Std. Dev.=1.069, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9613, critical = 0.878. Kappa = 2.868 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. No background outliers were found.

Constituent: Sulfate Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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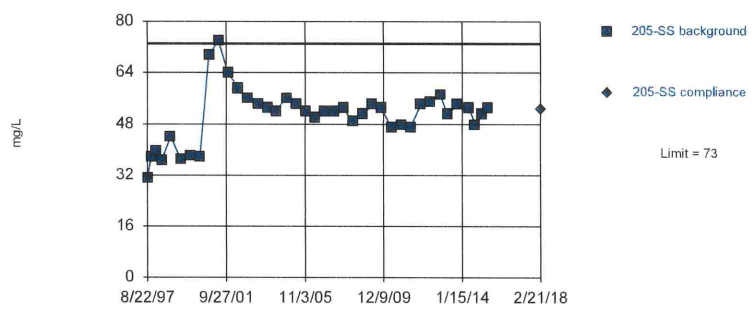
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=50.72, Std. Dev.=8.593, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9306, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 109 (11/20/2014).

Constituent: Sulfate Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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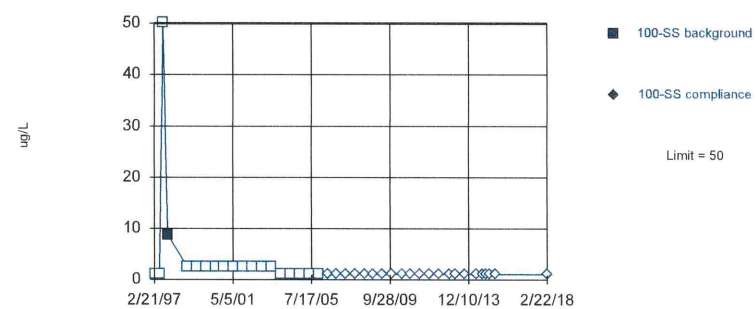
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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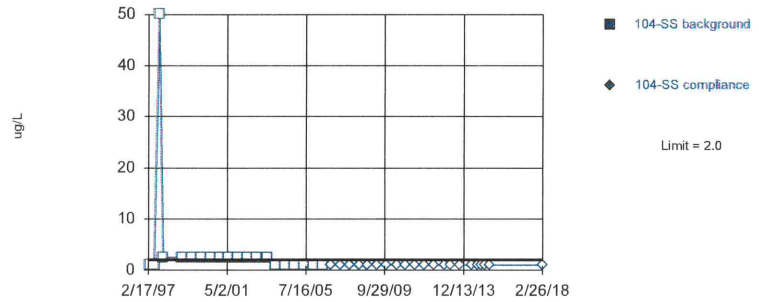
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01677. Individual comparison alpha = 0.004219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM

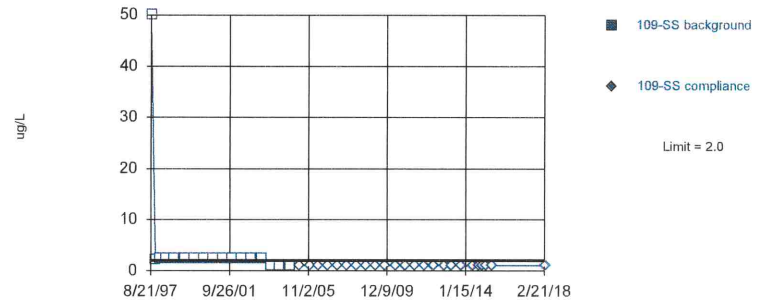
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02291. Individual comparison alpha = 0.005778 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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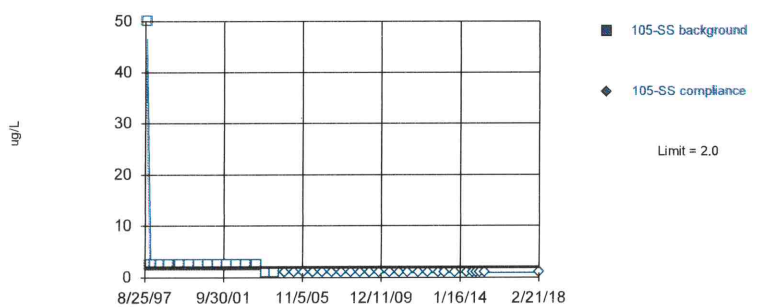
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02496. Individual comparison alpha = 0.006299 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM

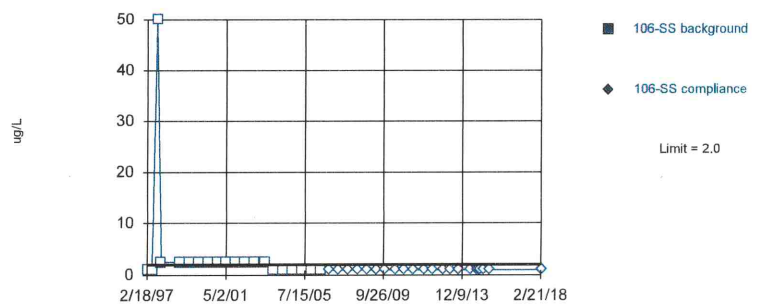
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01677. Individual comparison alpha = 0.004219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM

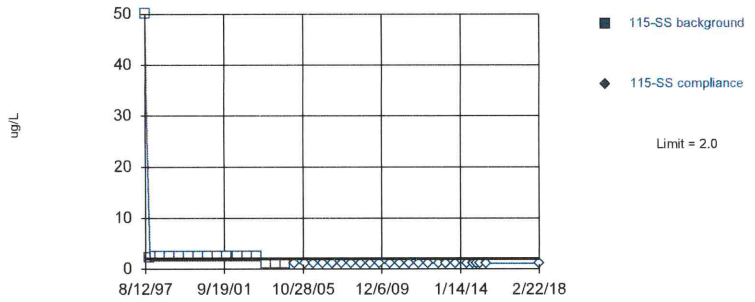
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02291. Individual comparison alpha = 0.005778 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

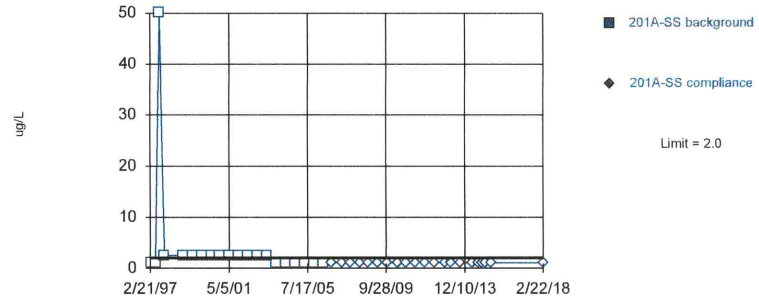
Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01677. Individual comparison alpha = 0.004219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

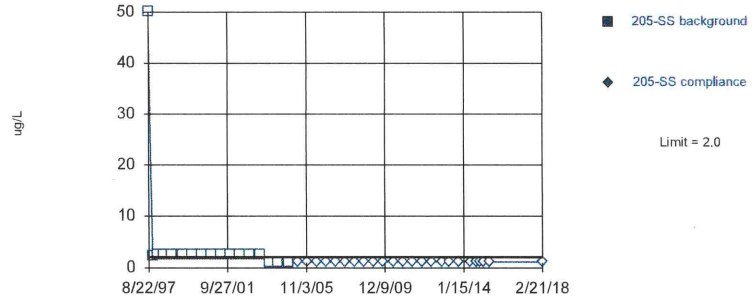
Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02291. Individual comparison alpha = 0.005778 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

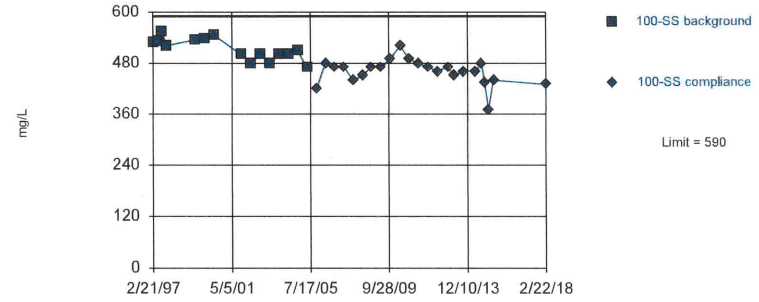
Constituent: Thallium Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=263507, Std. Dev.=26220, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9563, critical = 0.881. Kappa = 3.211 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. Three background outliers were removed: 748 (11/12/1998); 376 (11/13/2000); 400 (5/15/2001).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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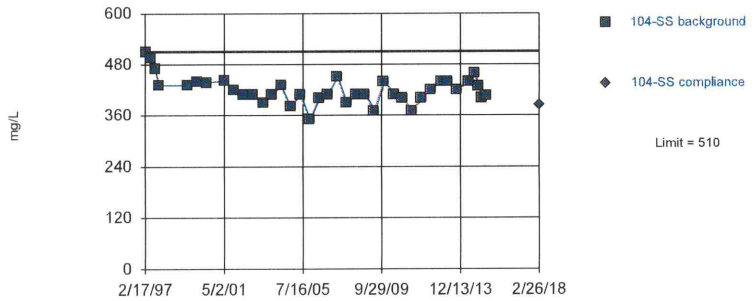
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.039, Std. Dev.=0.07516, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 664 (11/11/1998); 257 (11/13/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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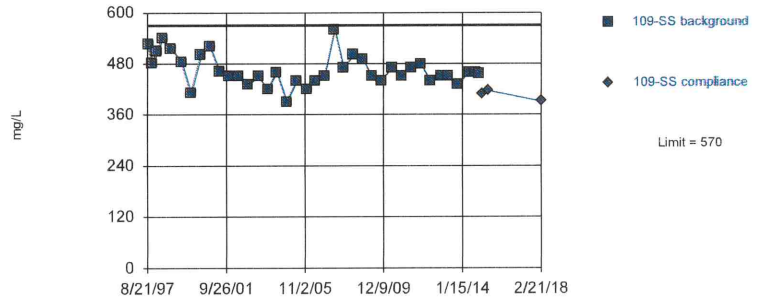
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.139, Std. Dev.=0.0774, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9714, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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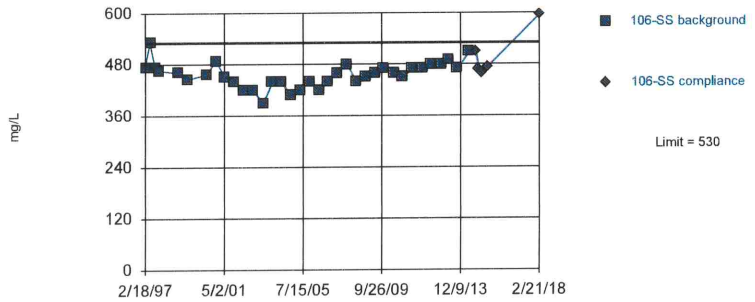
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=7.695, Std. Dev.=0.1596, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9807, critical = 0.91. Kappa = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 244 (11/19/1999).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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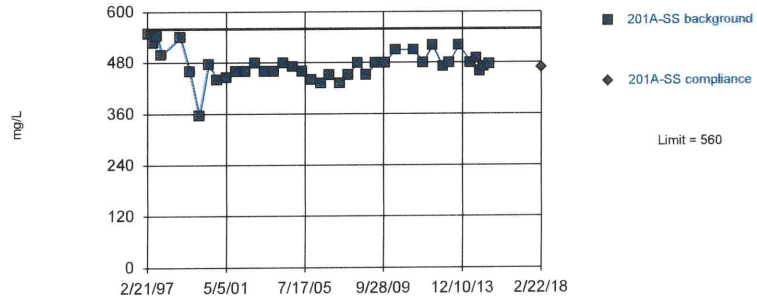
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=226671, Std. Dev.=33845, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 820 (11/10/2010).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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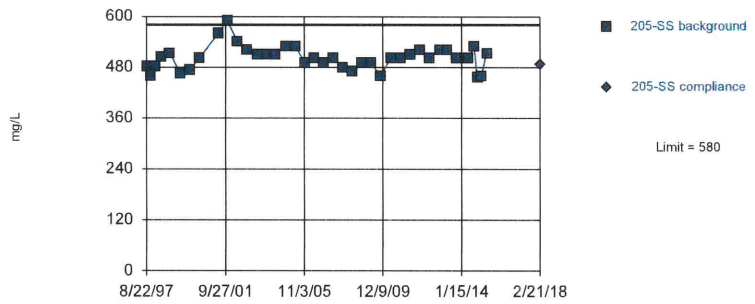
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.217, Std. Dev.=0.05445, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 611 (11/14/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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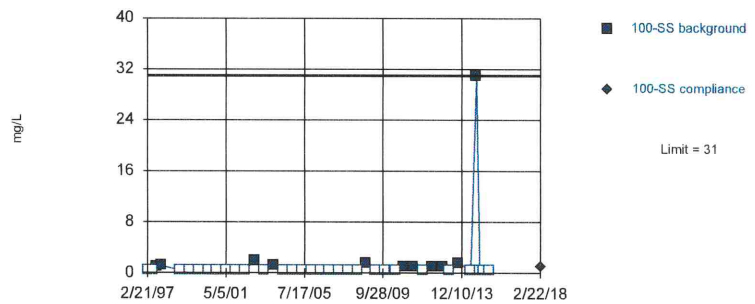
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 8:54 AM

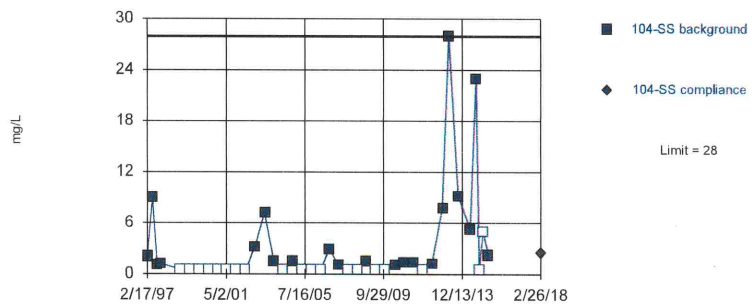
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 47.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 8:54 AM

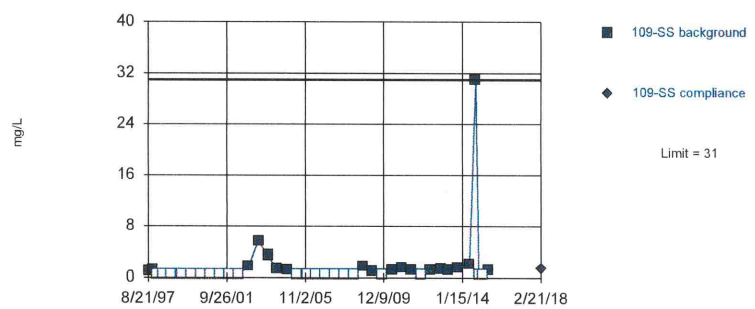
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 52.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 8:54 AM

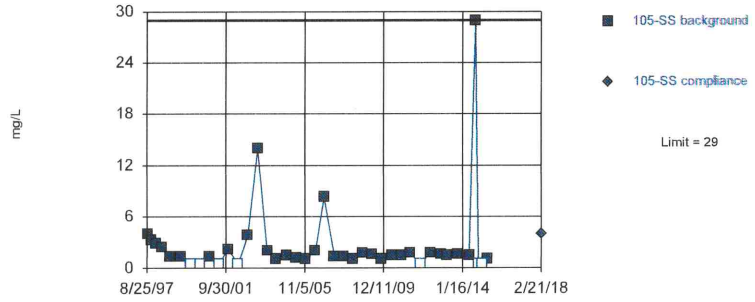
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 17.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

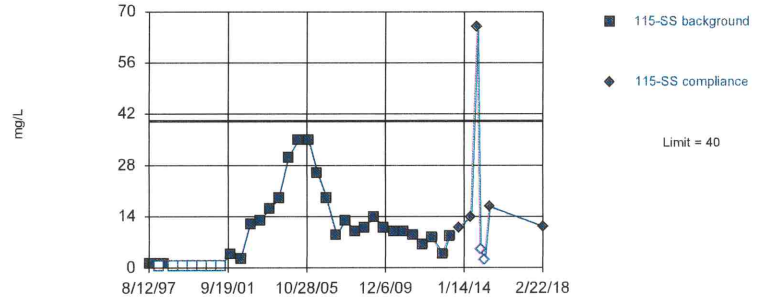
Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=2.511, Std. Dev.=1.429, n=34, 20.59% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9129, critical = 0.908. Kappa = 2.65 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

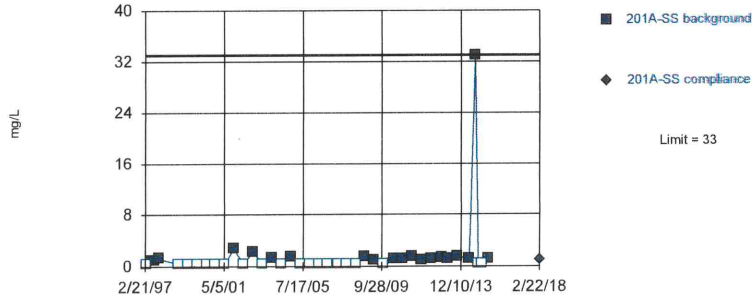
Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 50% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

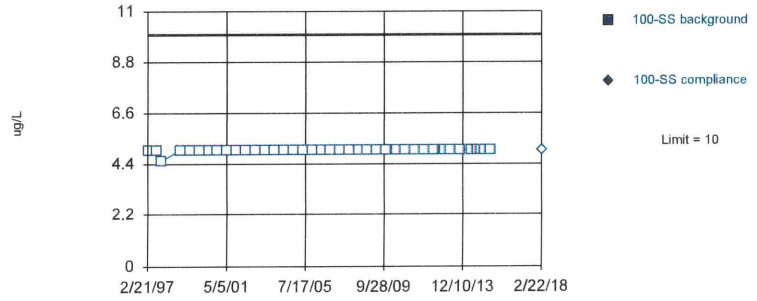
Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

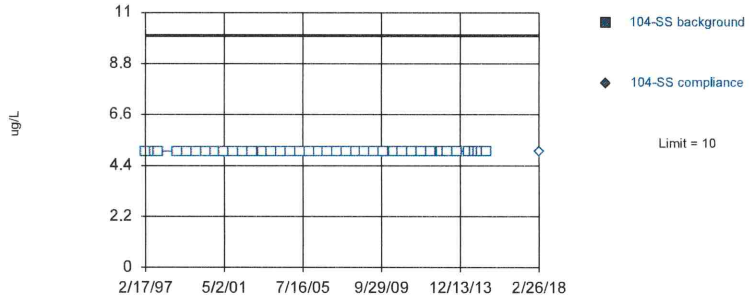
Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM

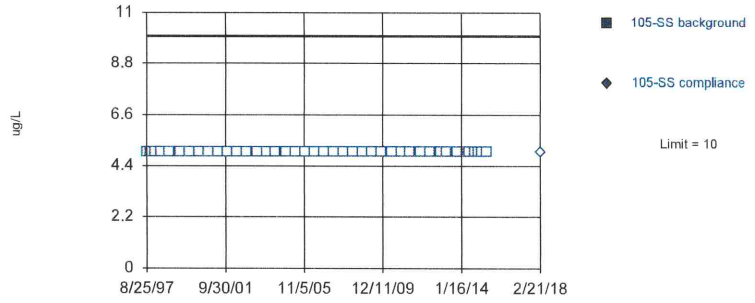
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric

Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
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Within Limit

Prediction Limit

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Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM

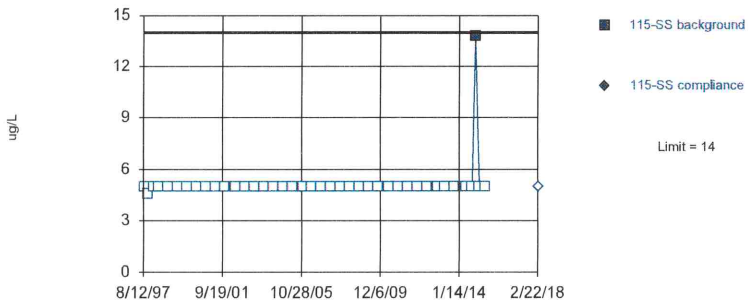
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM

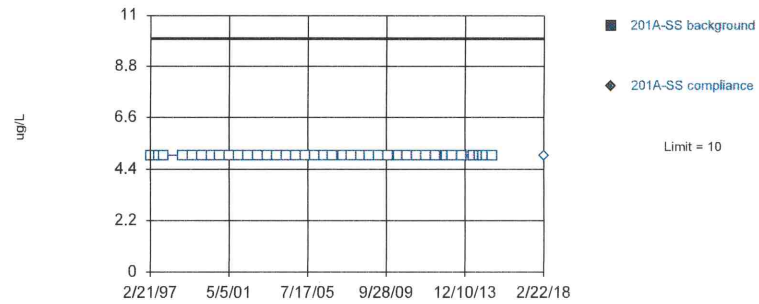
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM

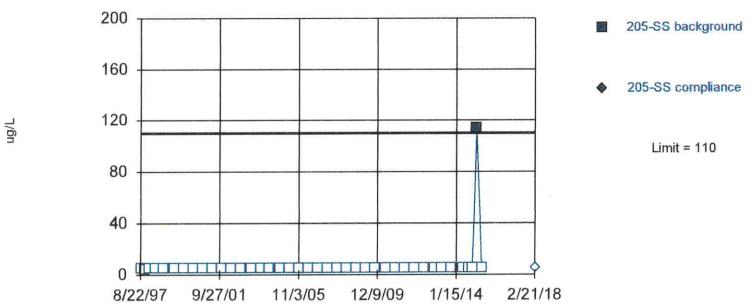
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 4/13/2018 8:54 AM

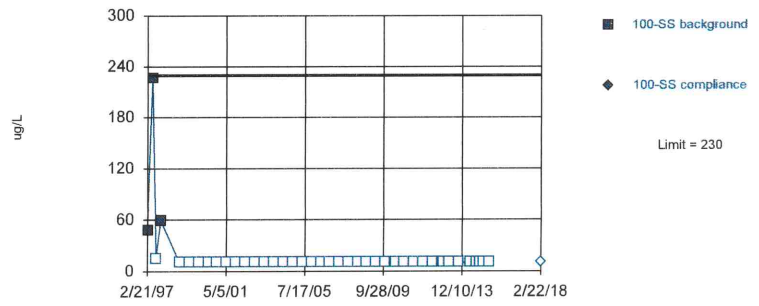
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM

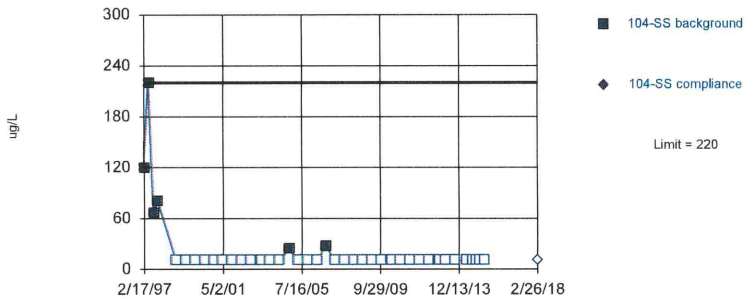
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

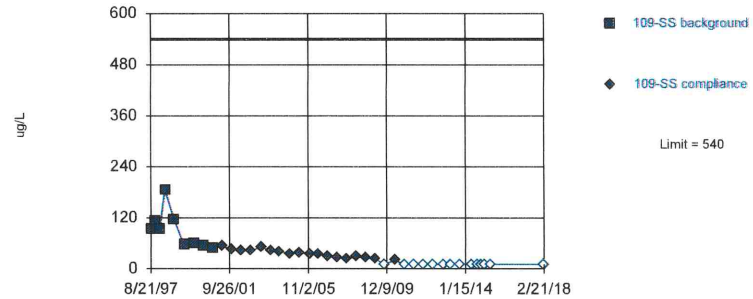
Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.426, Std. Dev.=0.4473, n=9. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9096, critical = 0.859. Kappa = 4.187 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

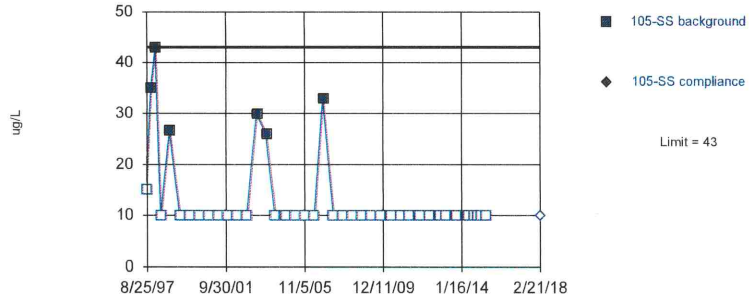
Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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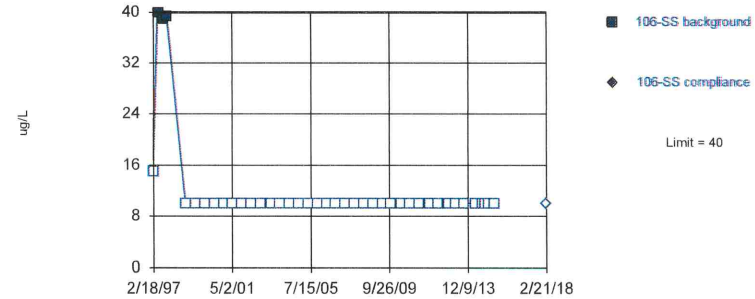
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

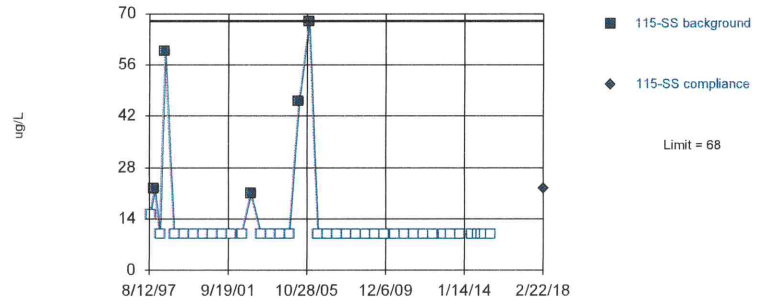
Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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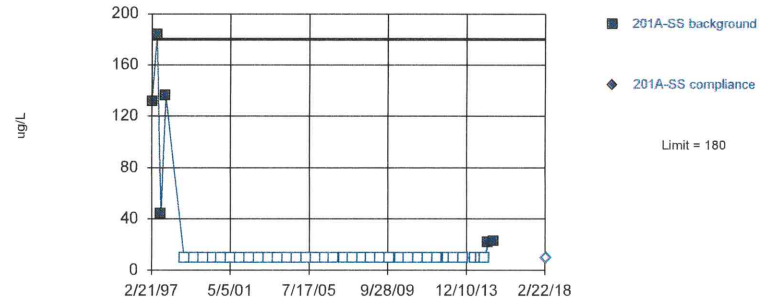
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM

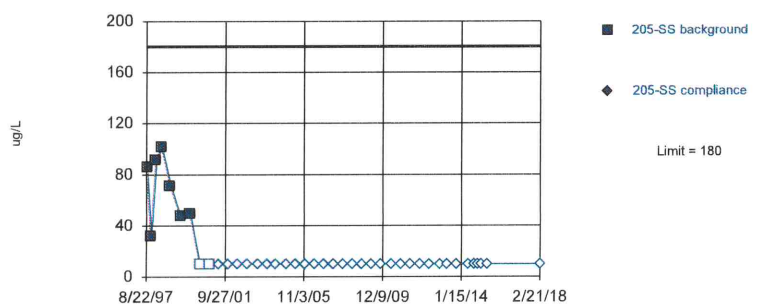
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=57.78, Std. Dev.=29.33, n=9, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.928, critical = 0.859. Kappa = 4.187 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Zinc Total Analysis Run 4/13/2018 8:54 AM

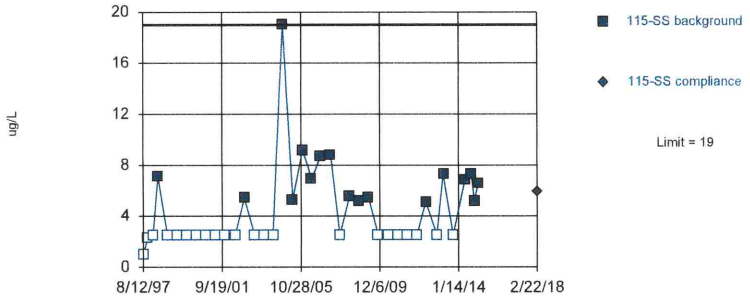
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 56.41% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Arsenic Total Analysis Run 4/13/2018 9:10 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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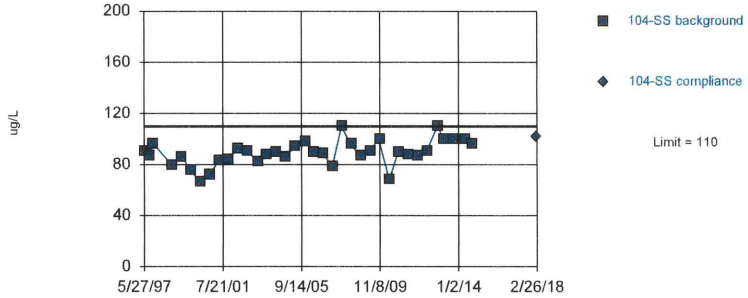
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8075, Std. Dev.=1743, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 4/13/2018 9:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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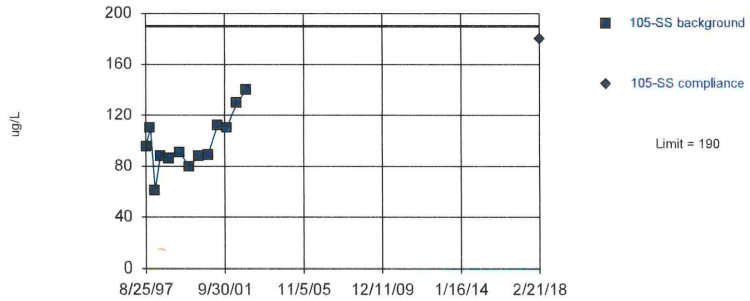
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=4.594, Std. Dev.=0.3338, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9537, critical = 0.866. Kappa = 3.402 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 4/13/2018 9:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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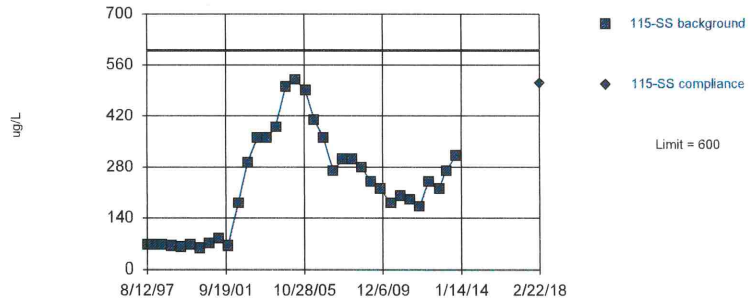
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=228, Std. Dev.=139.9, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.91. Kappa = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 4/13/2018 9:27 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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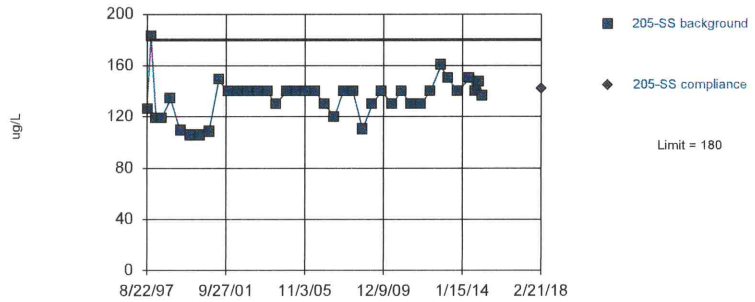
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Barium Total Analysis Run 4/13/2018 9:38 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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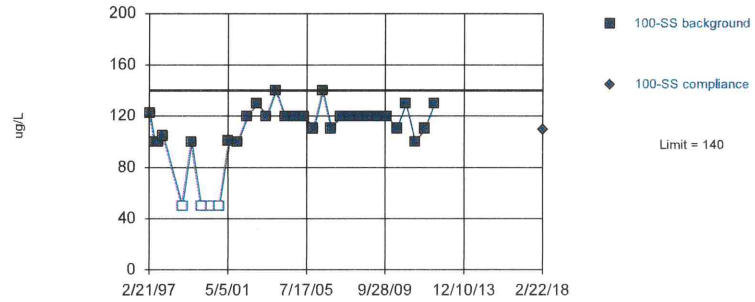
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=1.7e8, Std. Dev.=9.7e7, n=32, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9258, critical = 0.904. Kappa = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 9:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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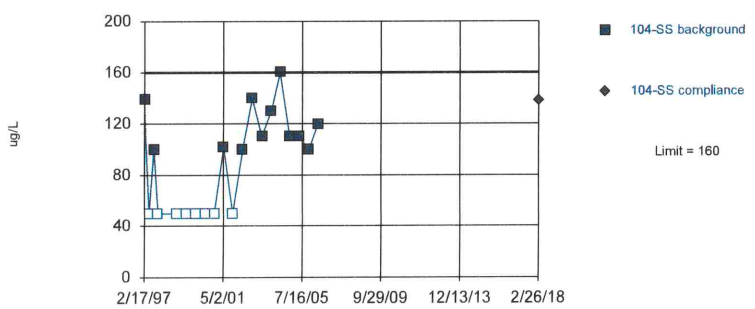
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.01677. Individual comparison alpha = 0.004219 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 9:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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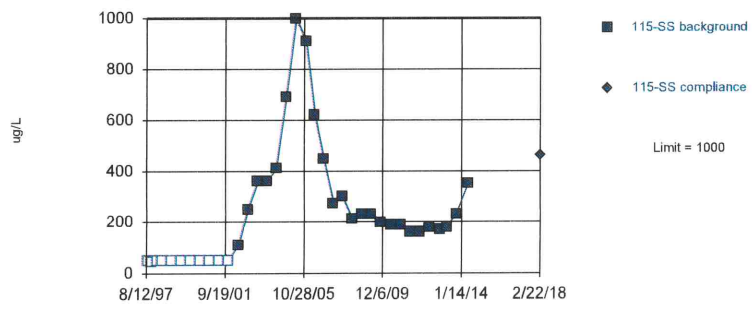
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 30.56% NDs. Well-constituent pair annual alpha = 0.005668. Individual comparison alpha = 0.00142 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 9:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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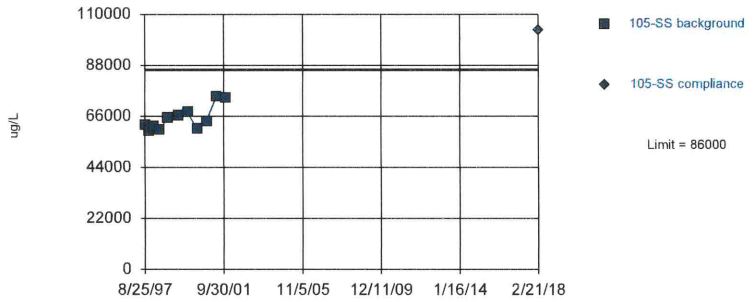
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.08, Std. Dev.=0.07786, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8783, critical = 0.85. Kappa = 3.677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 4/13/2018 9:56 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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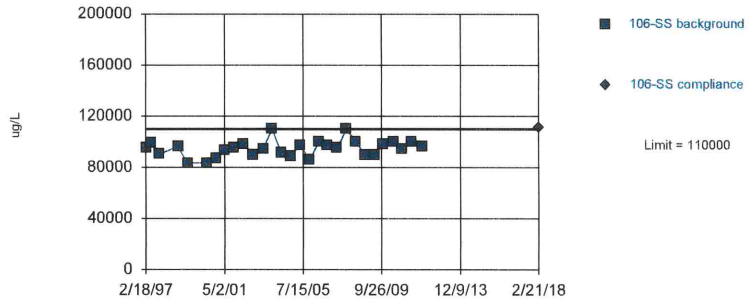
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.46, Std. Dev.=0.06699, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9547, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 60000 (8/25/1997); 9000 (11/19/1999).

Constituent: Calcium Total Analysis Run 4/13/2018 9:58 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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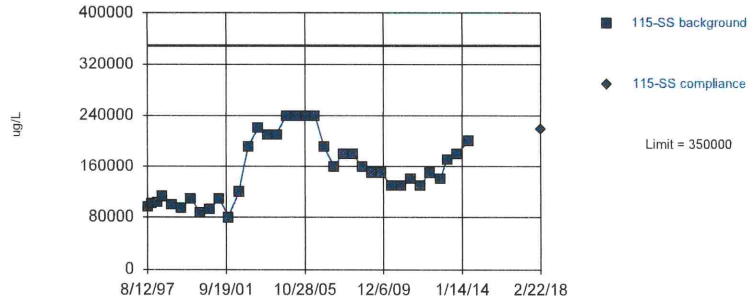
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.89, Std. Dev.=0.3286, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 4/13/2018 10:01 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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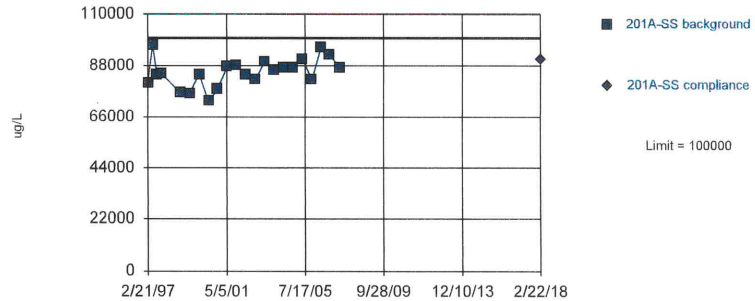
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=85186, Std. Dev.=6232, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.878. Kappa = 2.868 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 4/13/2018 10:02 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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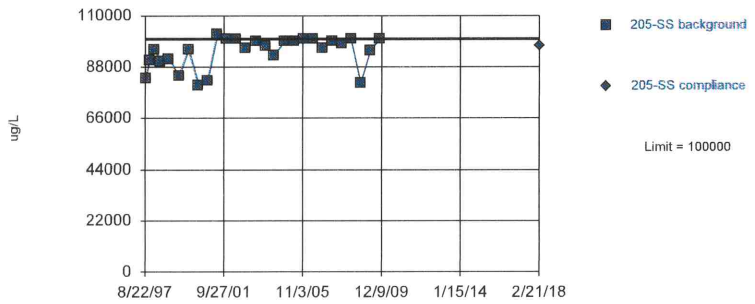
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. Well-constituent pair annual alpha = 0.009865. Individual comparison alpha = 0.002475 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Calcium Total Analysis Run 4/13/2018 10:04 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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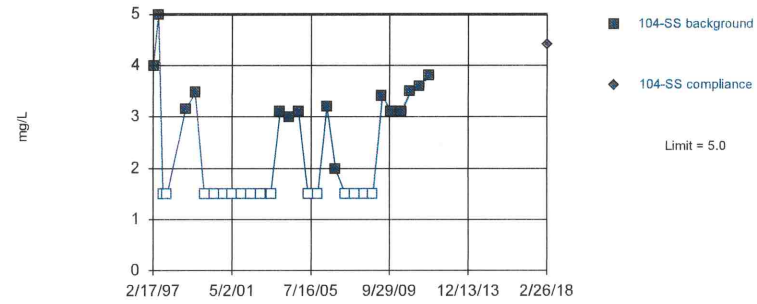
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 51.61% NDs. Well-constituent pair annual alpha = 0.007536. Individual comparison alpha = 0.001889 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chloride Analysis Run 4/13/2018 10:07 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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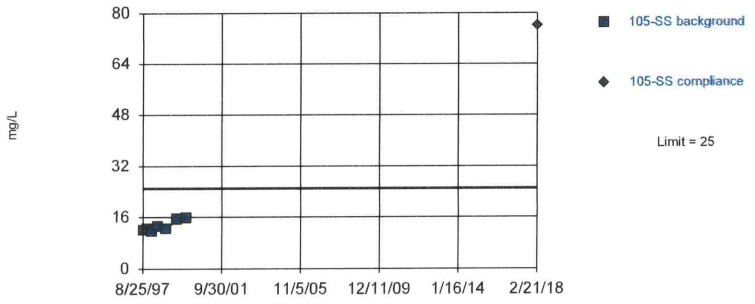
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.586, Std. Dev.=0.1213, n=7. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.8516, critical = 0.838. Kappa = 5.312 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 4/13/2018 10:08 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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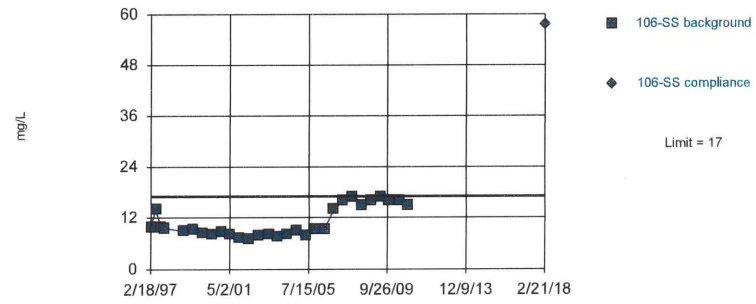
Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. Well-constituent pair annual alpha = 0.00858. Individual comparison alpha = 0.002152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chloride Analysis Run 4/13/2018 10:09 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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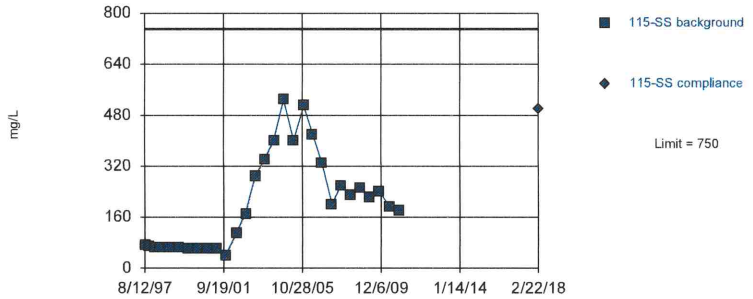
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=13.39, Std. Dev.=5.173, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8996, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chloride Analysis Run 4/13/2018 10:22 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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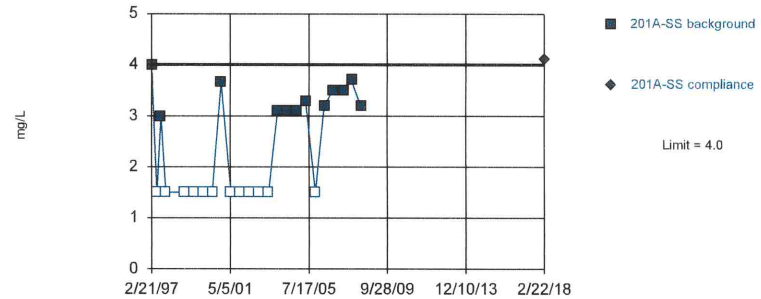
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 50% NDs. Well-constituent pair annual alpha = 0.01227. Individual comparison alpha = 0.003083 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chloride Analysis Run 4/13/2018 10:23 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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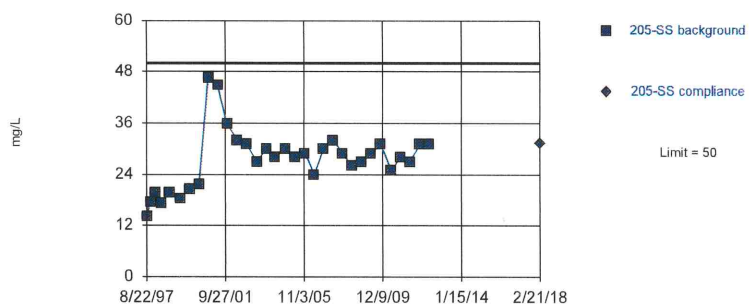
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.998, Std. Dev.=0.2584, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.904. Kappa = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 4/13/2018 10:25 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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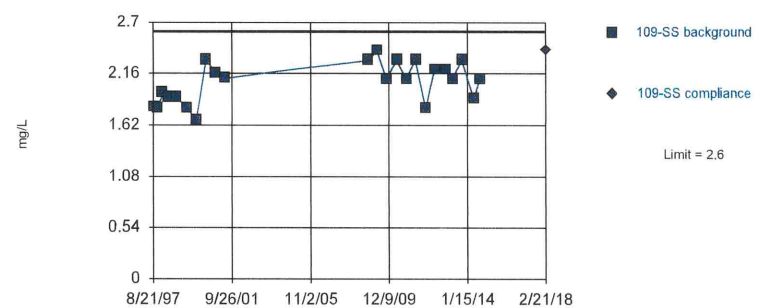
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.319, Std. Dev.=0.8498, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.881. Kappa = 2.839 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 4/13/2018 10:26 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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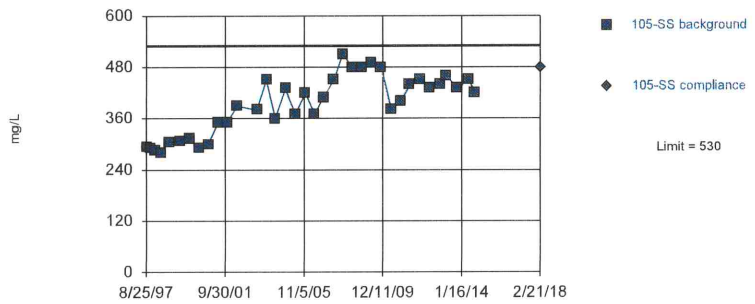
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.6e7, Std. Dev.=3.1e7, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 4/13/2018 10:28 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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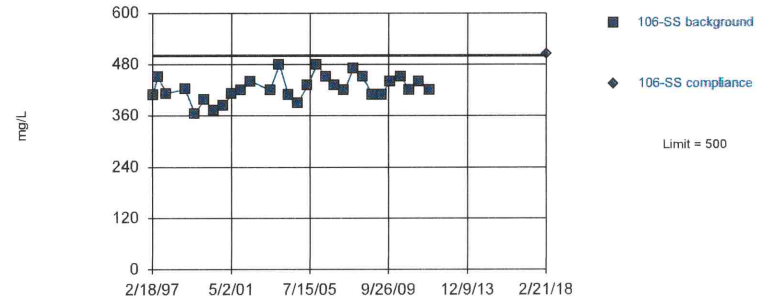
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=20.59, Std. Dev.=0.6924, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9676, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 265 (8/25/1997); 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 4/13/2018 10:28 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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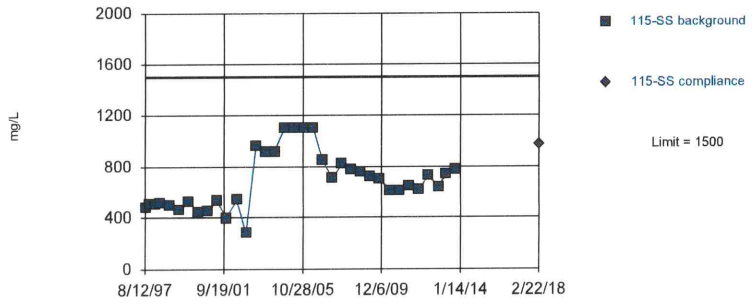
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.483, Std. Dev.=0.3251, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.91. Kappa = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Hardness Total Analysis Run 4/13/2018 10:29 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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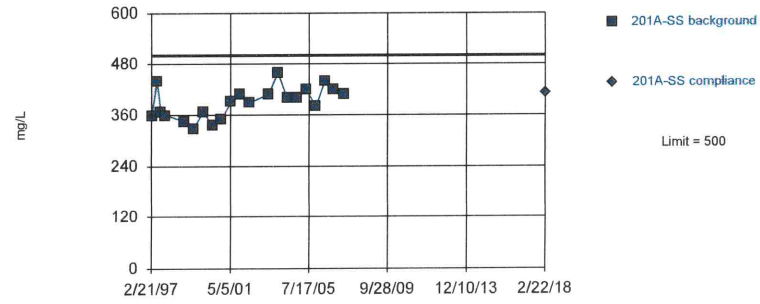
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=19.72, Std. Dev.=0.9201, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9763, critical = 0.873. Kappa = 2.896 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 4/13/2018 10:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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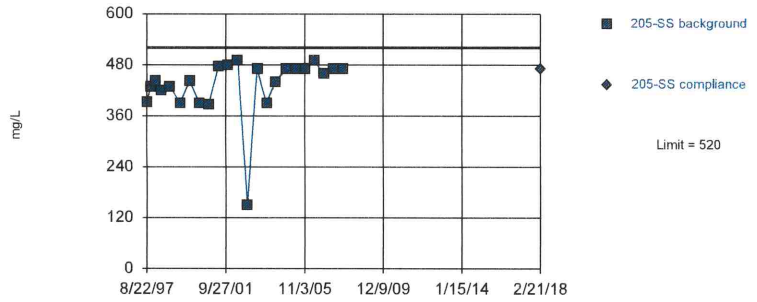
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=8.0e15, Std. Dev.=3.9e15, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.881. Kappa = 2.839 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 4/13/2018 10:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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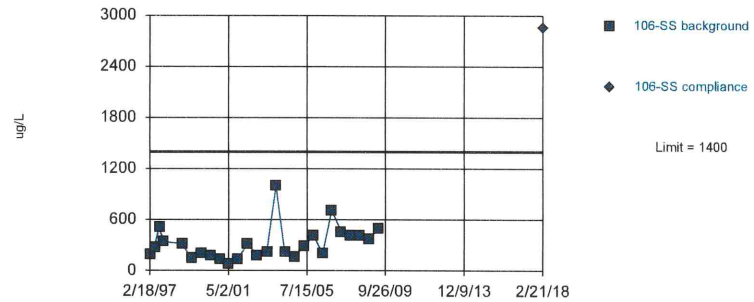
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.605, Std. Dev.=0.5835, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9865, critical = 0.891. Kappa = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 10:38 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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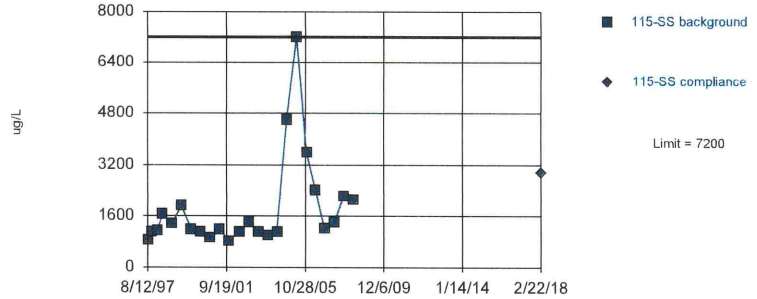
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. Well-constituent pair annual alpha = 0.01227. Individual comparison alpha = 0.003083 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Iron Total Analysis Run 4/13/2018 10:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on cube transformation): Mean=1.1e14, Std. Dev.=2.3e13, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.973, critical = 0.904. Kappa = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 4/13/2018 10:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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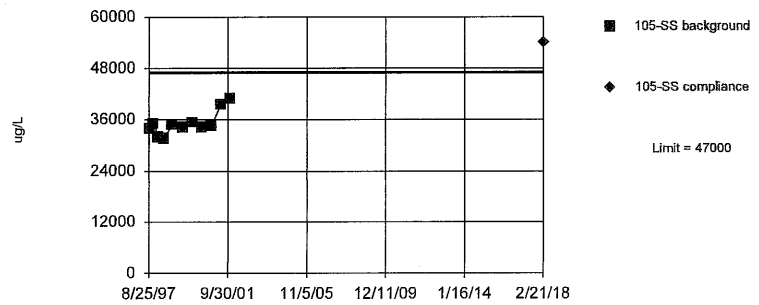
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.46, Std. Dev.=0.07764, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8517, critical = 0.85. Kappa = 3.677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 4/13/2018 10:43 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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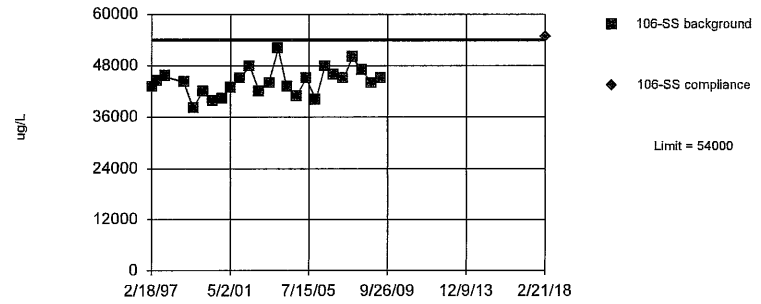
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.69, Std. Dev.=0.07281, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.888. Kappa = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 4/13/2018 10:43 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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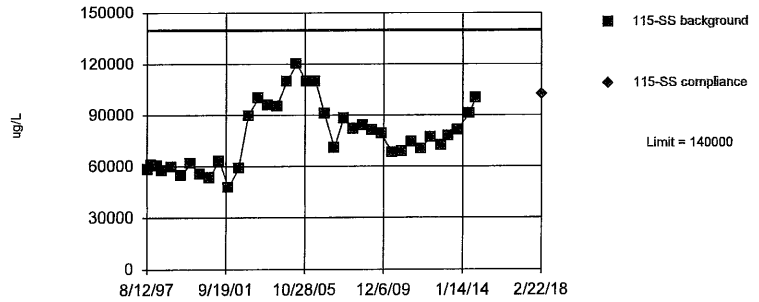
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.23, Std. Dev.=0.2383, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9667, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 4/13/2018 10:44 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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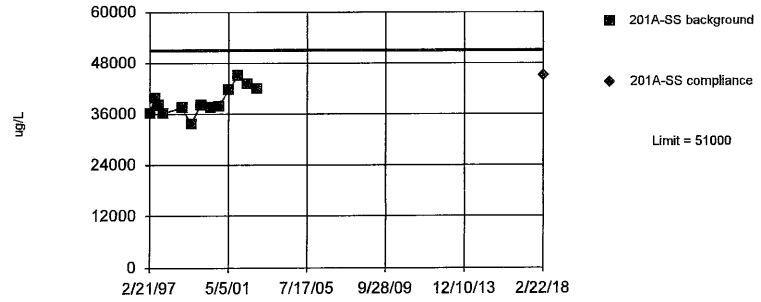
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.57, Std. Dev.=0.08112, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9611, critical = 0.866. Kappa = 3.402 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 4/13/2018 10:46 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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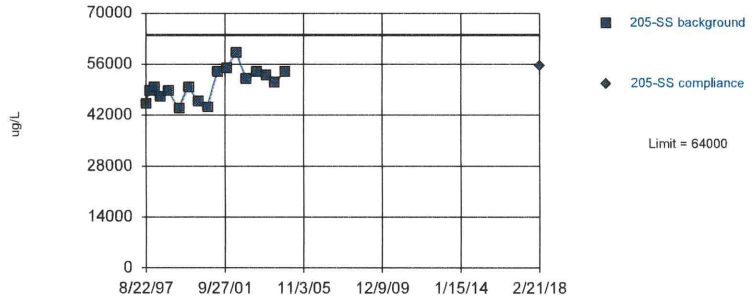
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=224, Std. Dev.=9.563, n=17. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9653, critical = 0.892. Kappa = 3.067 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 4/13/2018 10:47 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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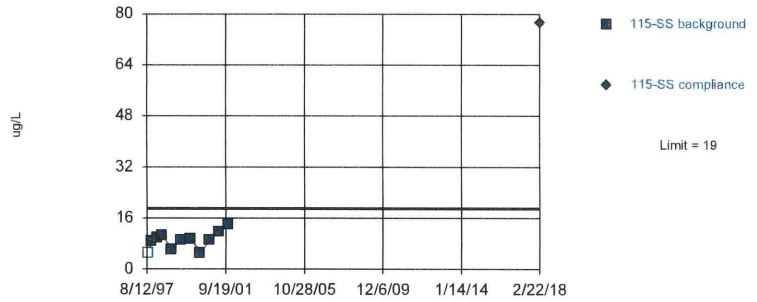
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.983, Std. Dev.=2.739, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9428, critical = 0.85. Kappa = 3.677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 47 (5/21/2002).

Constituent: Manganese Total Analysis Run 4/13/2018 10:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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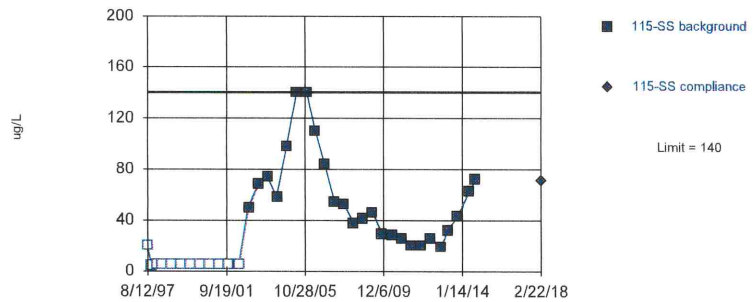
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. 32.43% NDs. Well-constituent pair annual alpha = 0.005401. Individual comparison alpha = 0.001353 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Nickel Total Analysis Run 4/13/2018 10:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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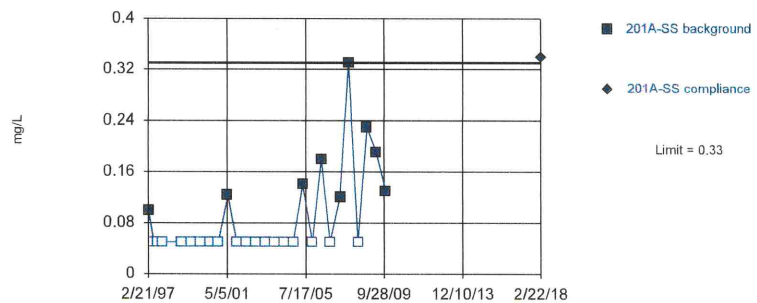
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009865. Individual comparison alpha = 0.002475 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 10:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limits

Prediction Limit

Intrawell Parametric

Background Data Summary (based on natural log transformation): Mean=1.983, Std. Dev.=0.05825, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9752, critical = 0.91. Kappa = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 10:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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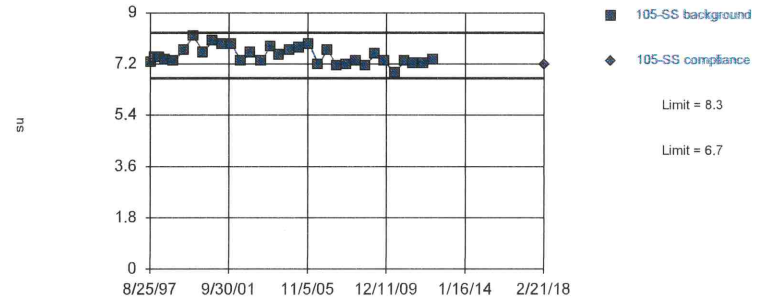
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.012, Std. Dev.=0.04035, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.961, critical = 0.904. Kappa = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 10:51 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limits

Prediction Limit

Intrawell Parametric

Background Data Summary (based on natural log transformation): Mean=1.98, Std. Dev.=0.05226, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9745, critical = 0.902. Kappa = 2.685 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 10:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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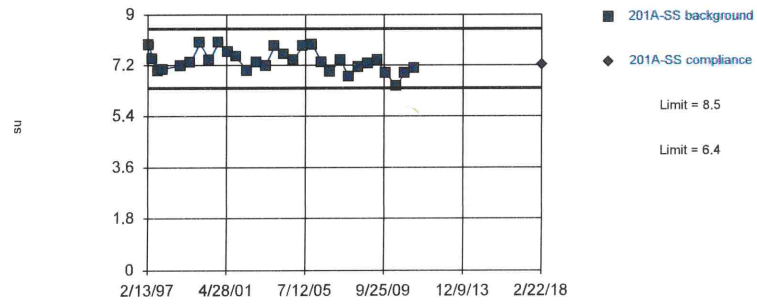
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.993, Std. Dev.=0.05282, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9571, critical = 0.9. Kappa = 2.696 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 10:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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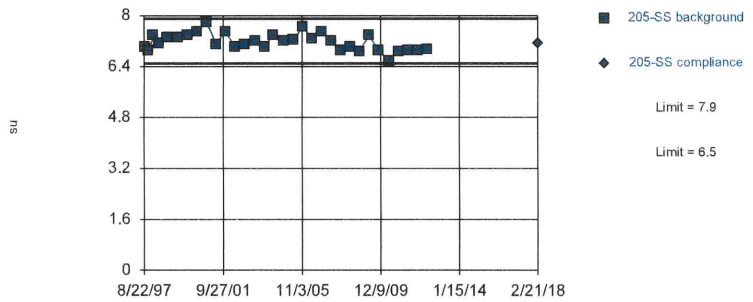
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.969, Std. Dev.=0.03712, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.904. Kappa = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 10:58 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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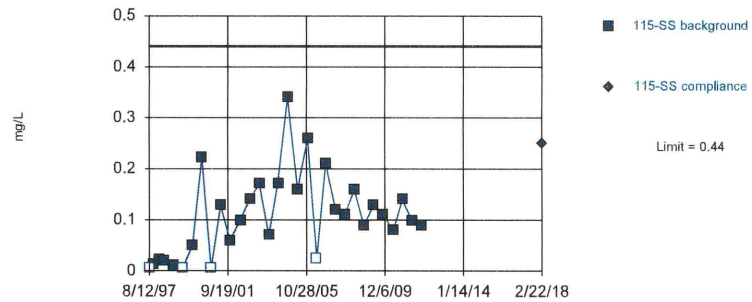
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.2985, Std. Dev.=0.1361, n=31, 12.9% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.902. Kappa = 2.685 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 4/13/2018 10:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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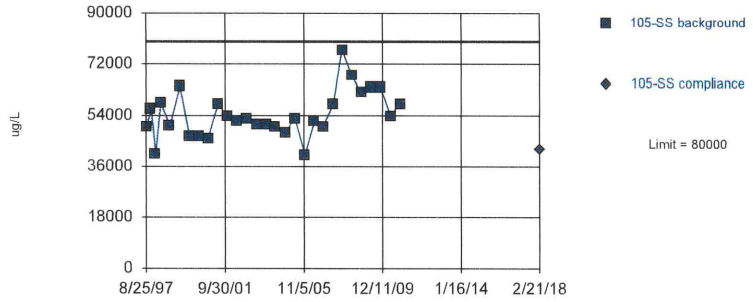
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.89, Std. Dev.=0.1457, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9758, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 4/13/2018 11:00 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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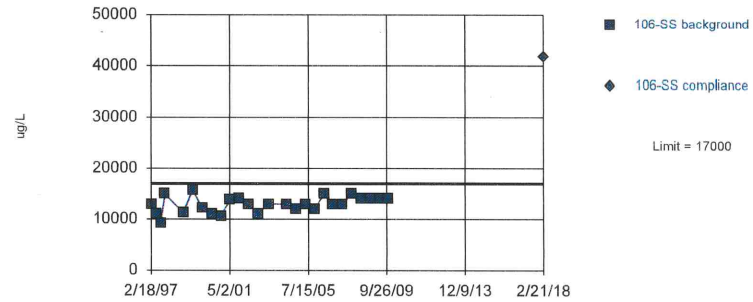
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.7e8, Std. Dev.=4.0e7, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9718, critical = 0.891. Kappa = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 20000 (11/20/2003).

Constituent: Sodium Total Analysis Run 4/13/2018 11:00 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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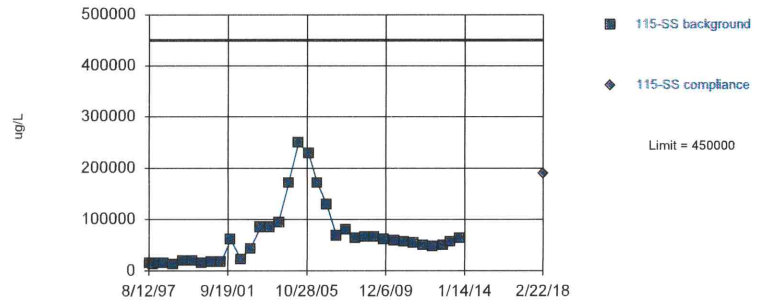
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.78, Std. Dev.=0.8461, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.91. Kappa = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 4/13/2018 11:03 AM

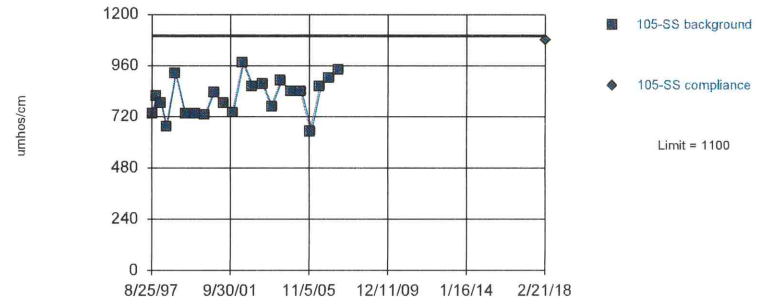
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=813.5, Std. Dev.=87.59, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.878. Kappa = 2.868 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 11:05 AM

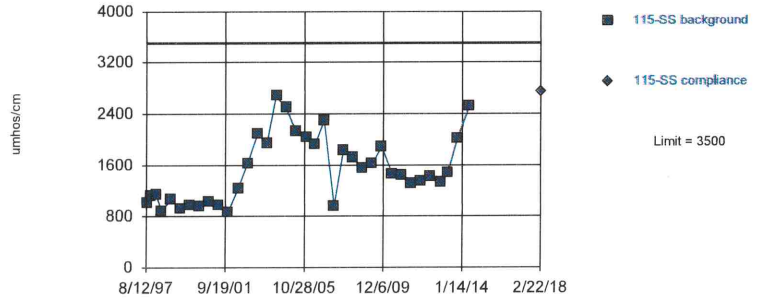
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.284, Std. Dev.=0.335, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 11:05 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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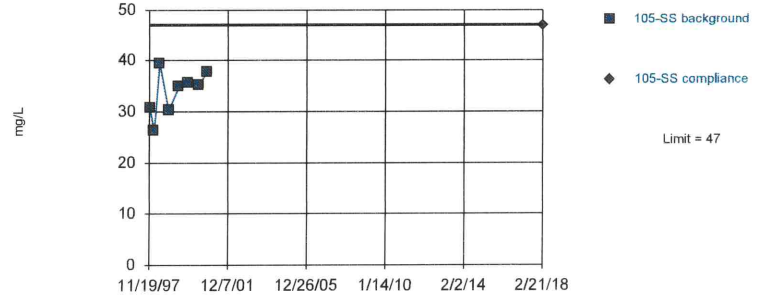
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=40346, Std. Dev.=14371, n=8. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9665, critical = 0.851. Kappa = 4.517 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 13 (8/25/1997).

Constituent: Sulfate Analysis Run 4/13/2018 11:06 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on natural log transformation): Mean=4.083, Std. Dev.=0.141, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9812, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

Constituent: Sulfate Analysis Run 4/13/2018 11:07 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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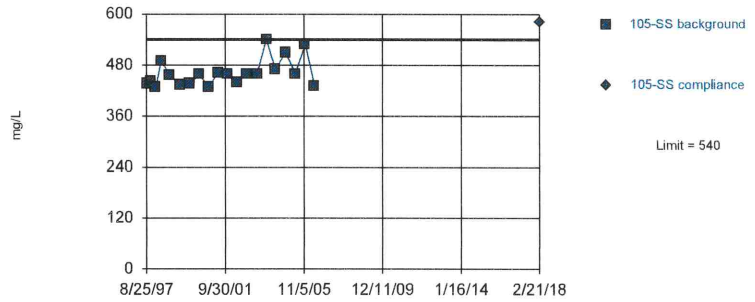
Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 20 background values. Well-constituent pair annual alpha = 0.01677. Individual comparison alpha = 0.004219 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 11:08 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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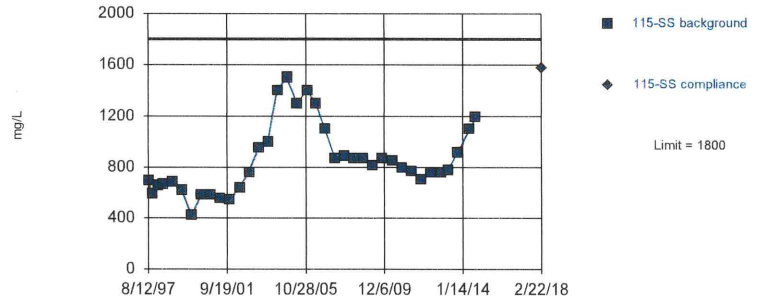
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.71, Std. Dev.=0.3007, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9719, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 11:08 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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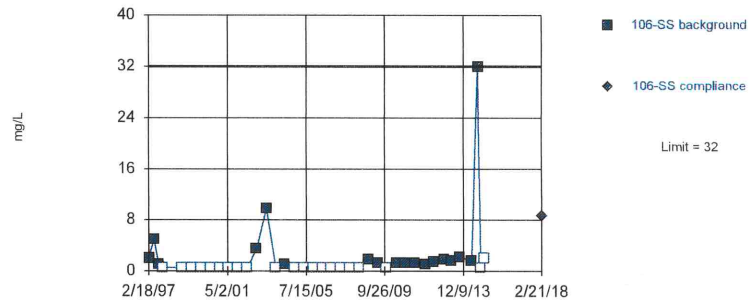
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 11:09 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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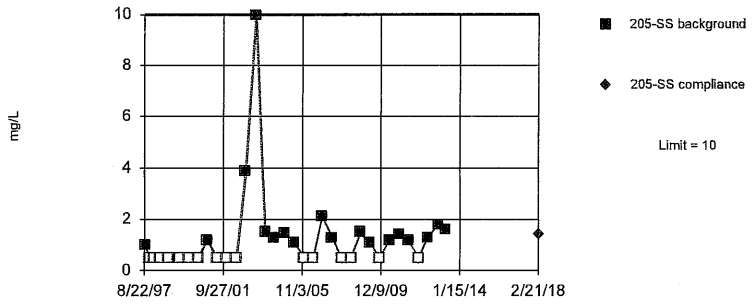
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. 47.06% NDs. Well-constituent pair annual alpha = 0.006335. Individual comparison alpha = 0.001587 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 11:09 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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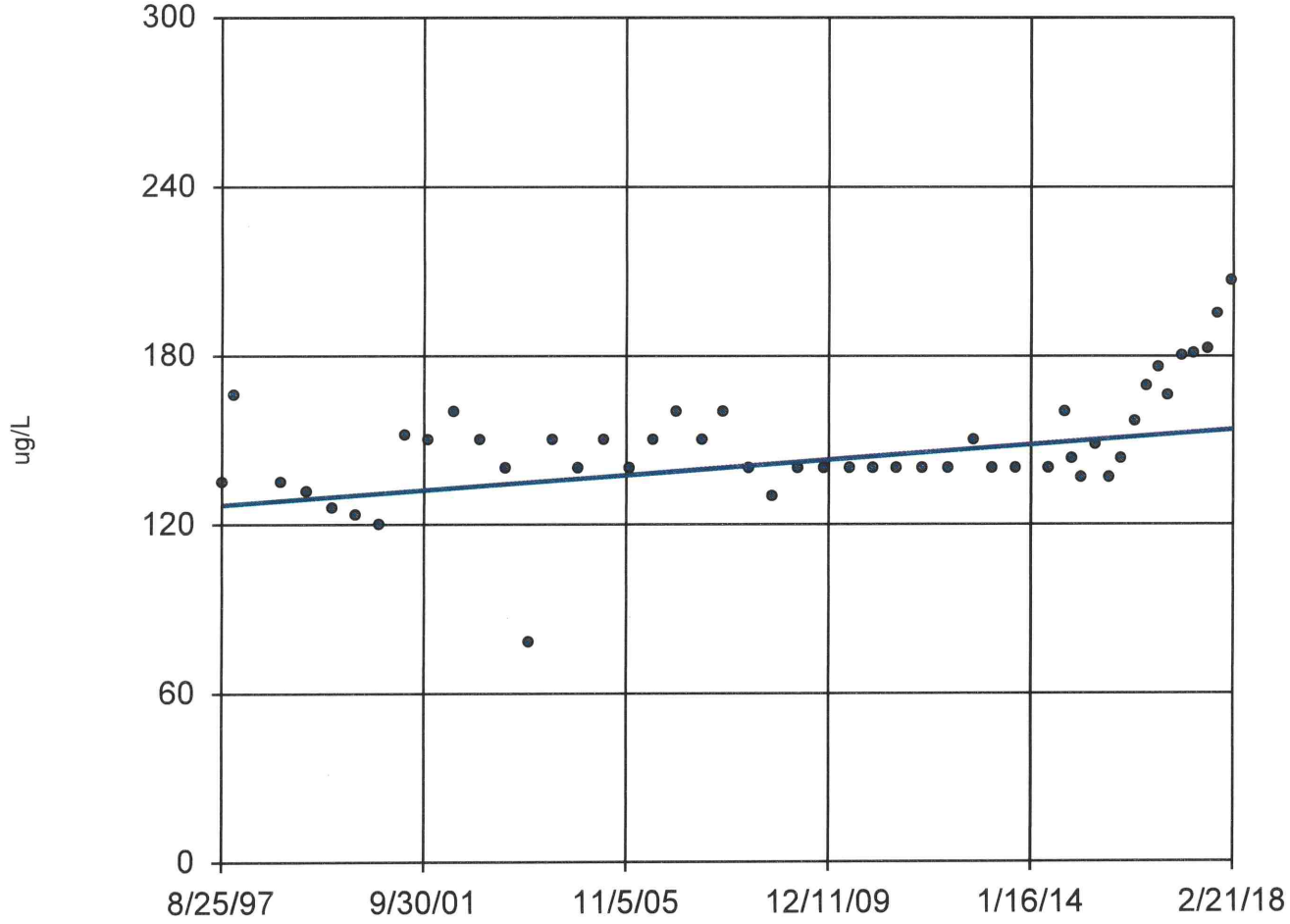
Sen's Slope Estimator

106-SS



n = 49

Slope = 1.311 units per year.

Mann-Kendall normal approx. = 3.56
critical = 2.33

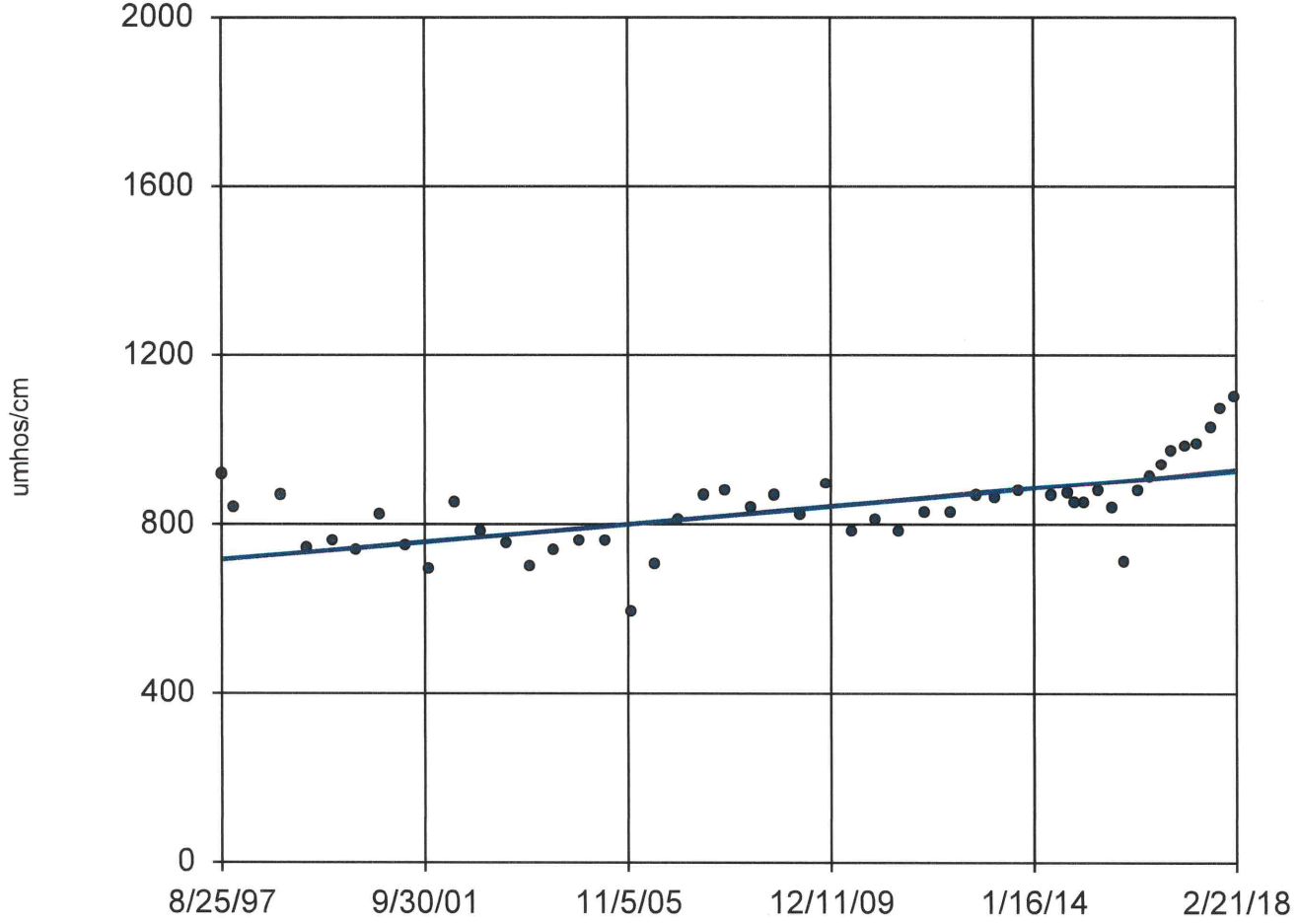
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 4/17/2018 11:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

106-SS



n = 49

Slope = 10.26 units per year.

Mann-Kendall normal approx. = 5.079
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Specific Conductance [Field] Analysis Run 4/17/2018 11:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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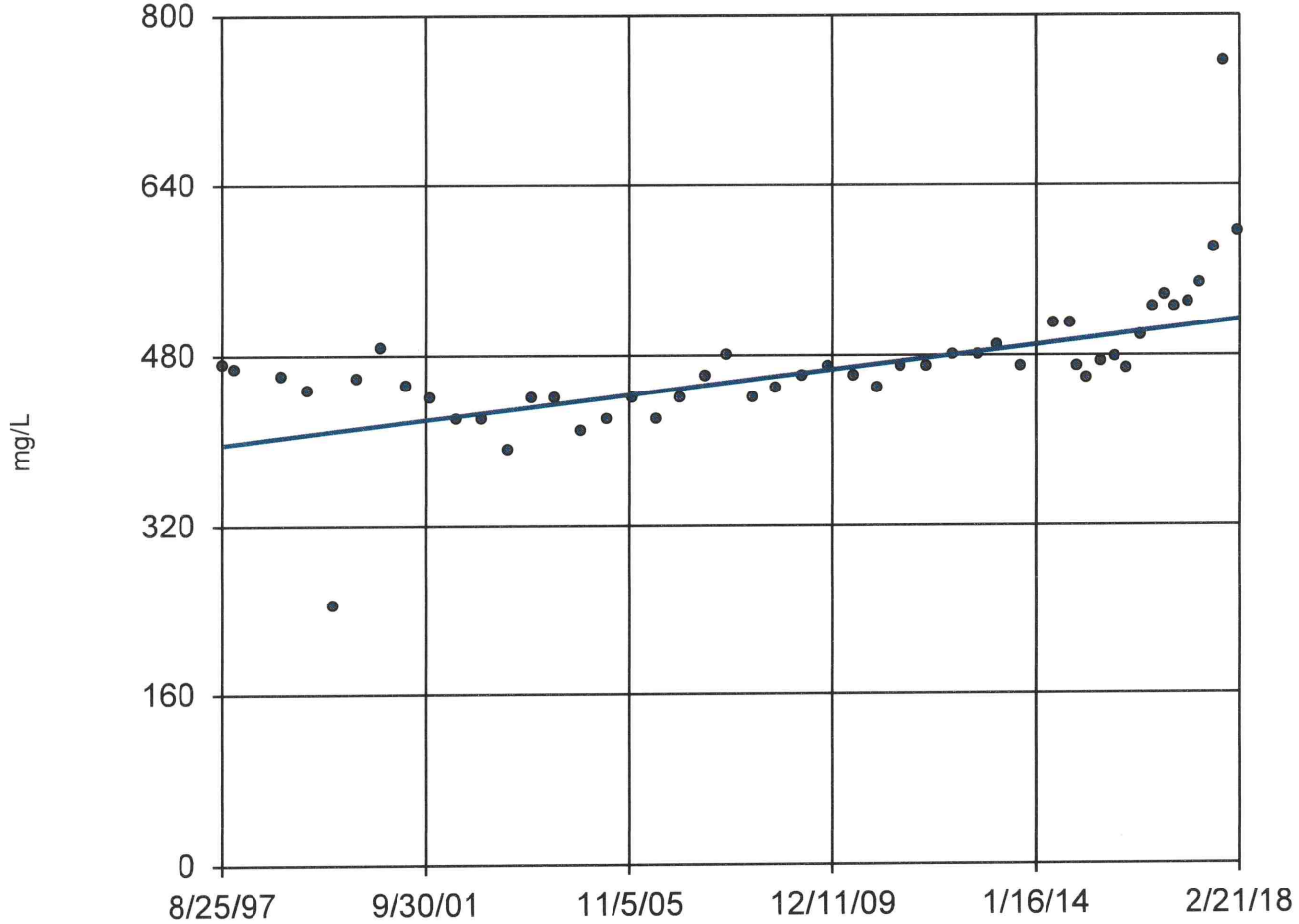
Sen's Slope Estimator

106-SS



n = 49

Slope = 5.711 units per year.

Mann-Kendall normal approx. = 5.736
critical = 2.33

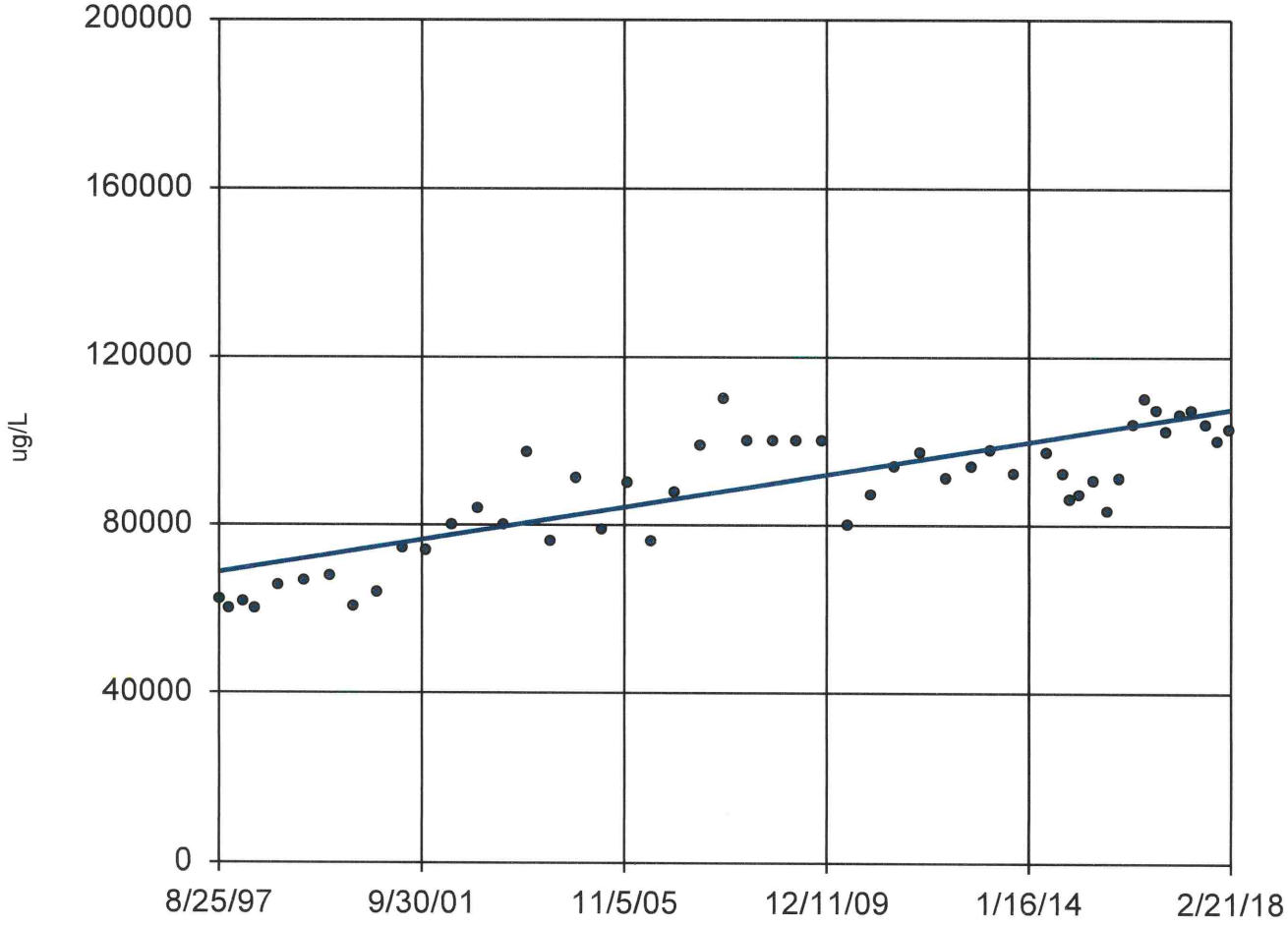
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2018 11:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

105-SS



n = 51

Slope = 1902 units per year.

Mann-Kendall normal approx. = 6.082
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 4/17/2018 11:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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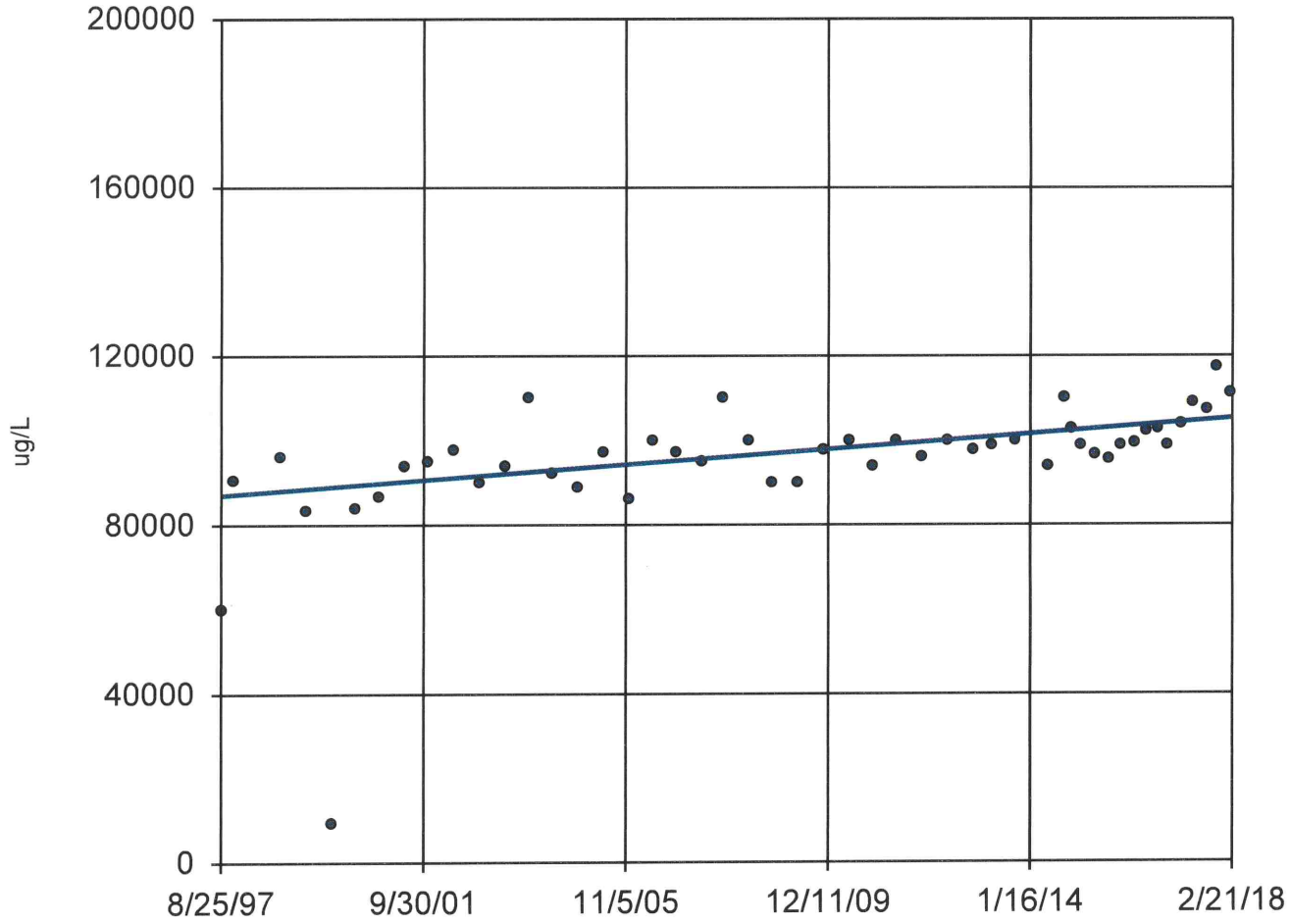
Sen's Slope Estimator

106-SS



n = 49

Slope = 888.8 units per year.

Mann-Kendall normal approx. = 5.423
critical = 2.33

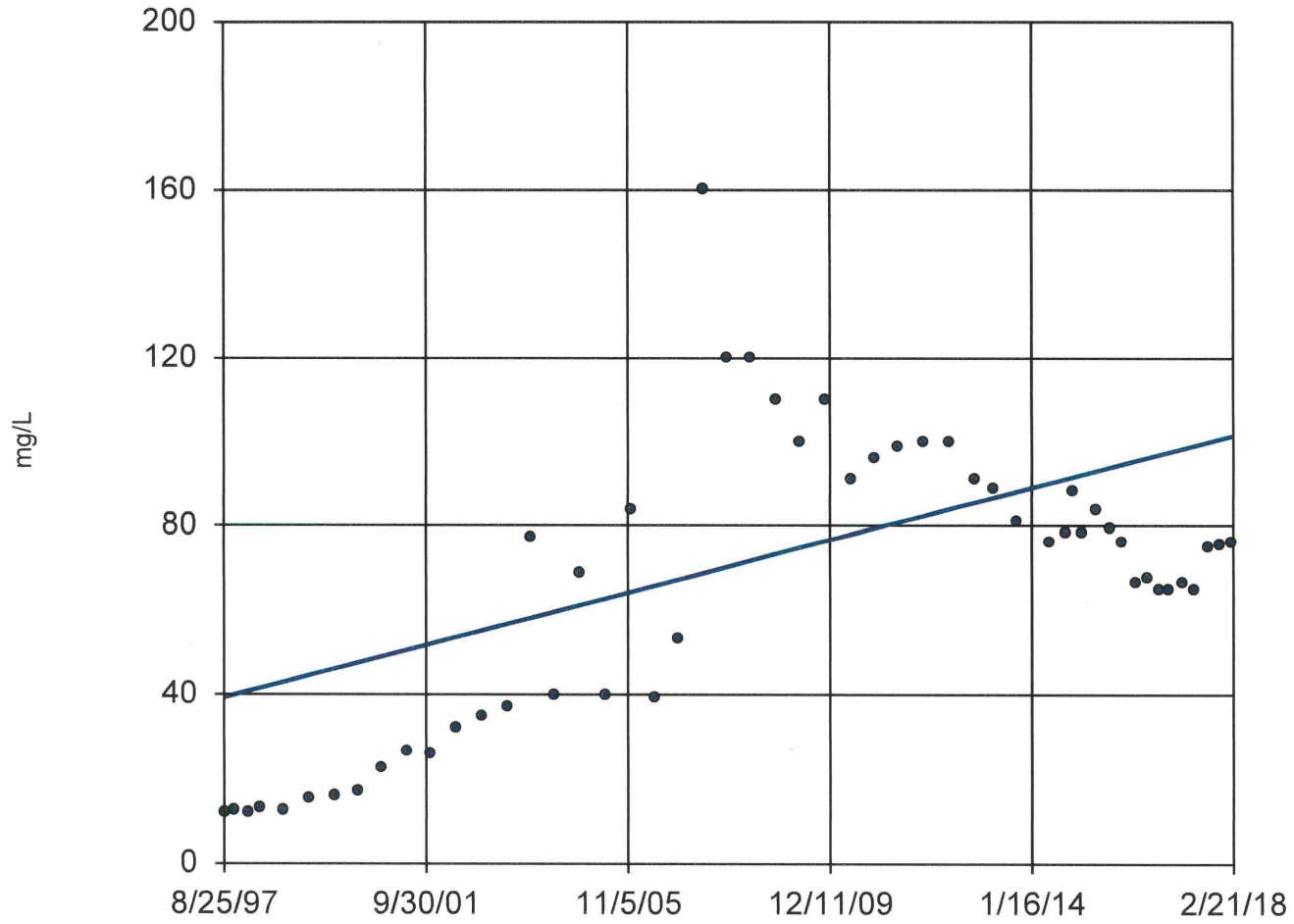
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 4/17/2018 11:51 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

105-SS



n = 51

Slope = 3.036 units per year.

Mann-Kendall normal approx. = 3.323
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 4/17/2018 11:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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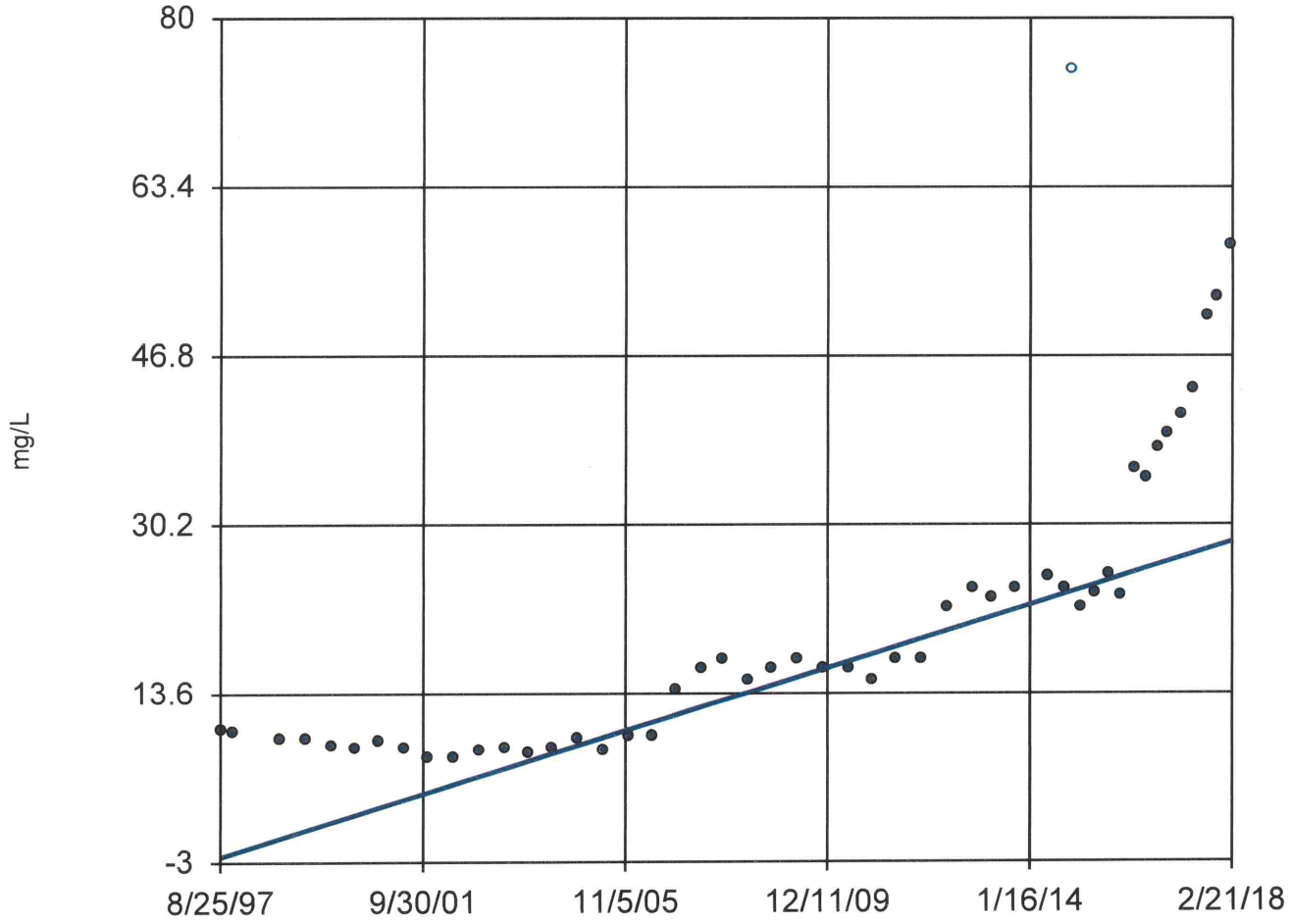
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS



n = 49

Slope = 1.51 units per year.

Mann-Kendall normal approx. = 7.618
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

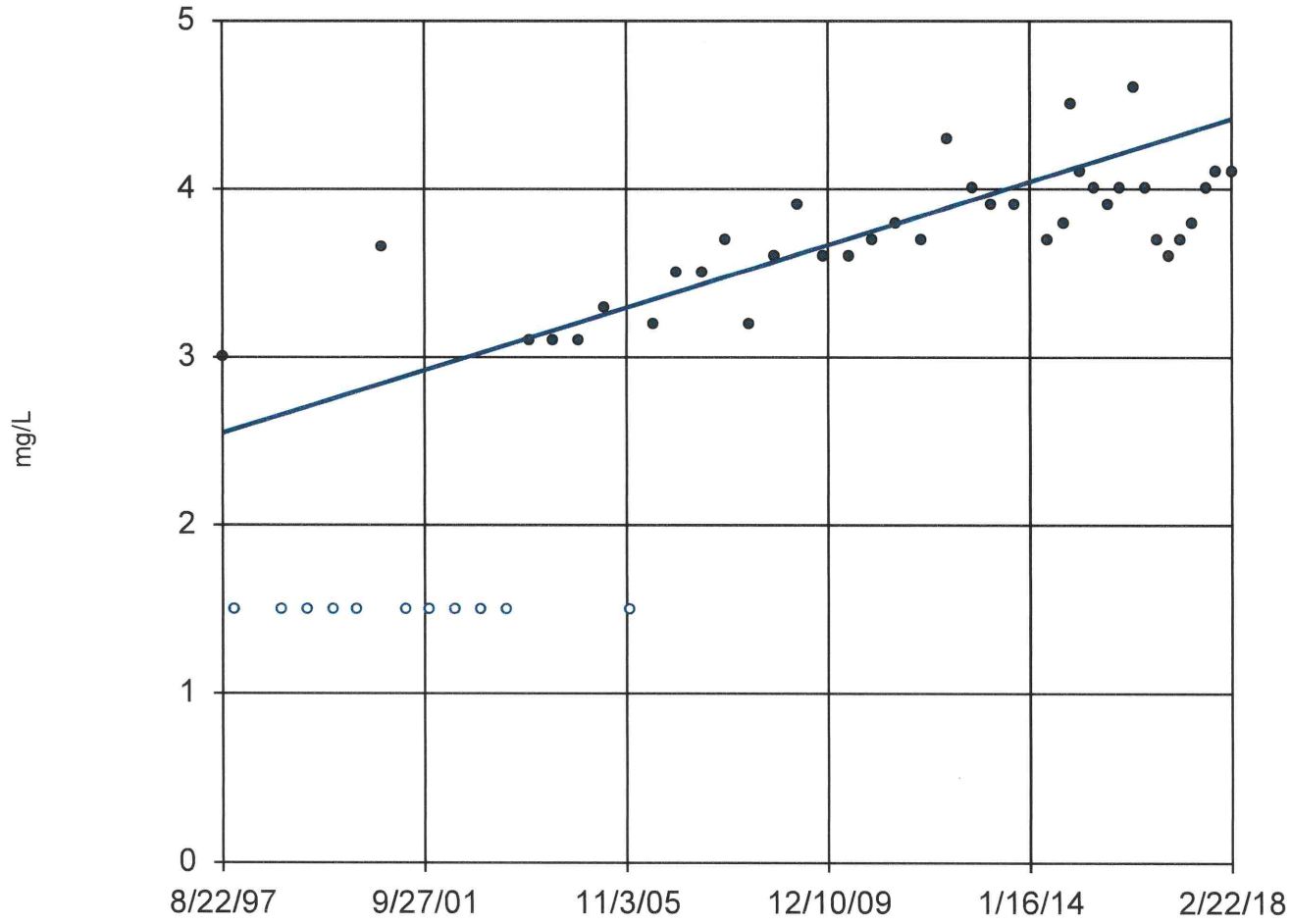
Constituent: Chloride Analysis Run 4/17/2018 11:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS



n = 49

Slope = 0.09114 units per year.

Mann-Kendall normal approx. = 6.732
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 4/17/2018 11:56 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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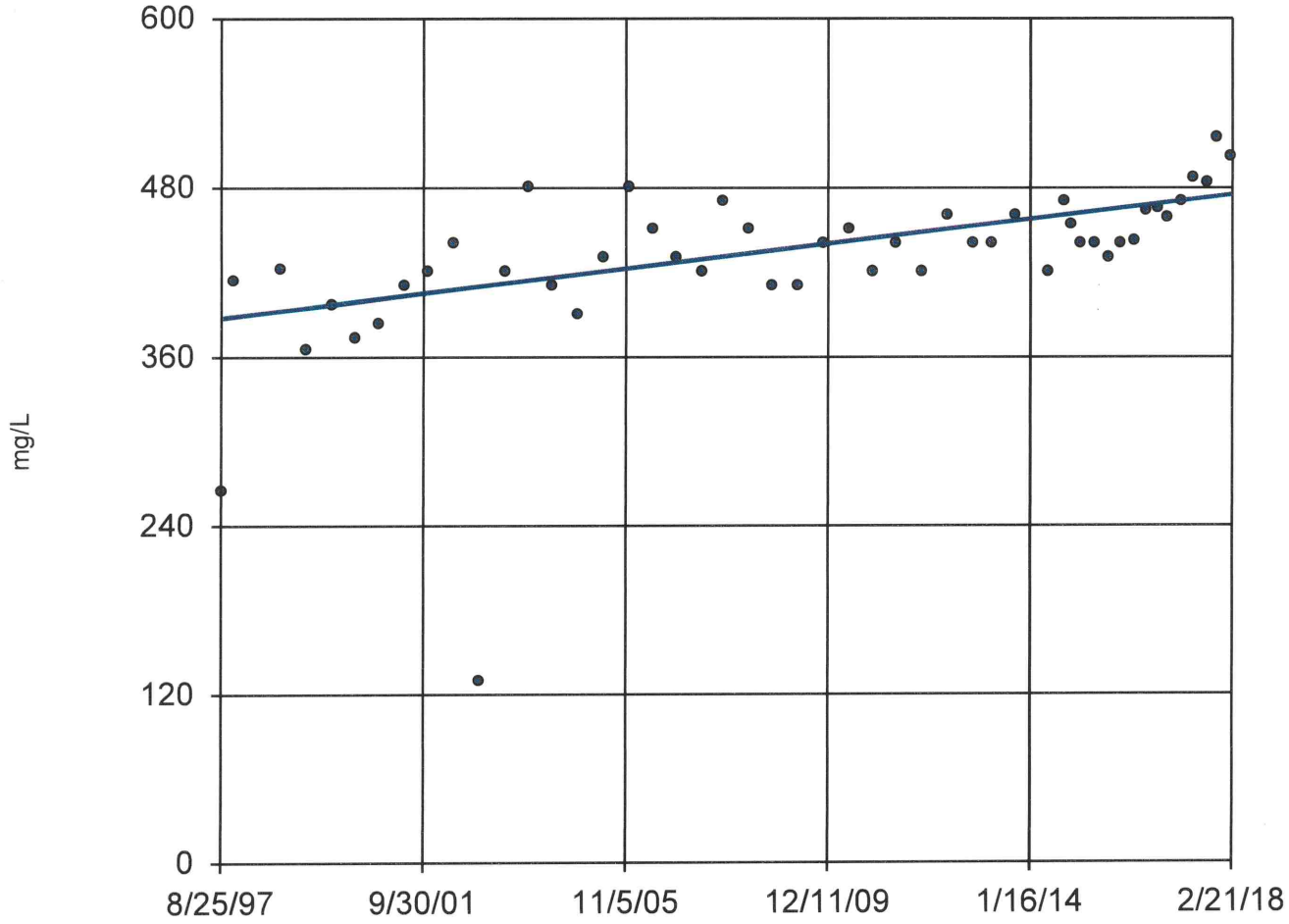
Sen's Slope Estimator

106-SS



n = 49

Slope = 4.283 units per year.

Mann-Kendall normal approx. = 5.474
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 4/17/2018 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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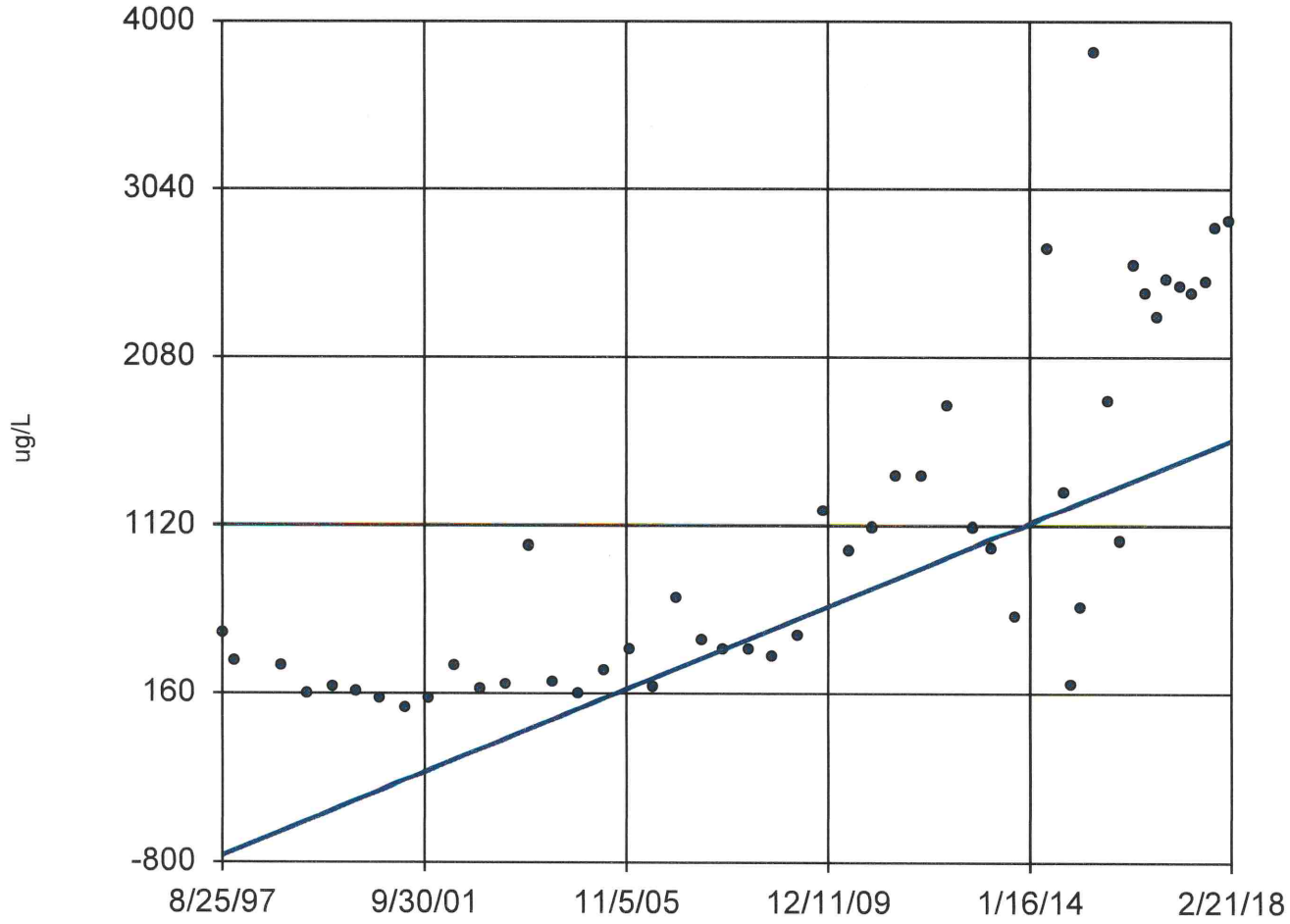
Sen's Slope Estimator

106-SS



n = 49

Slope = 115.4 units per year.

Mann-Kendall normal approx. = 6.622
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

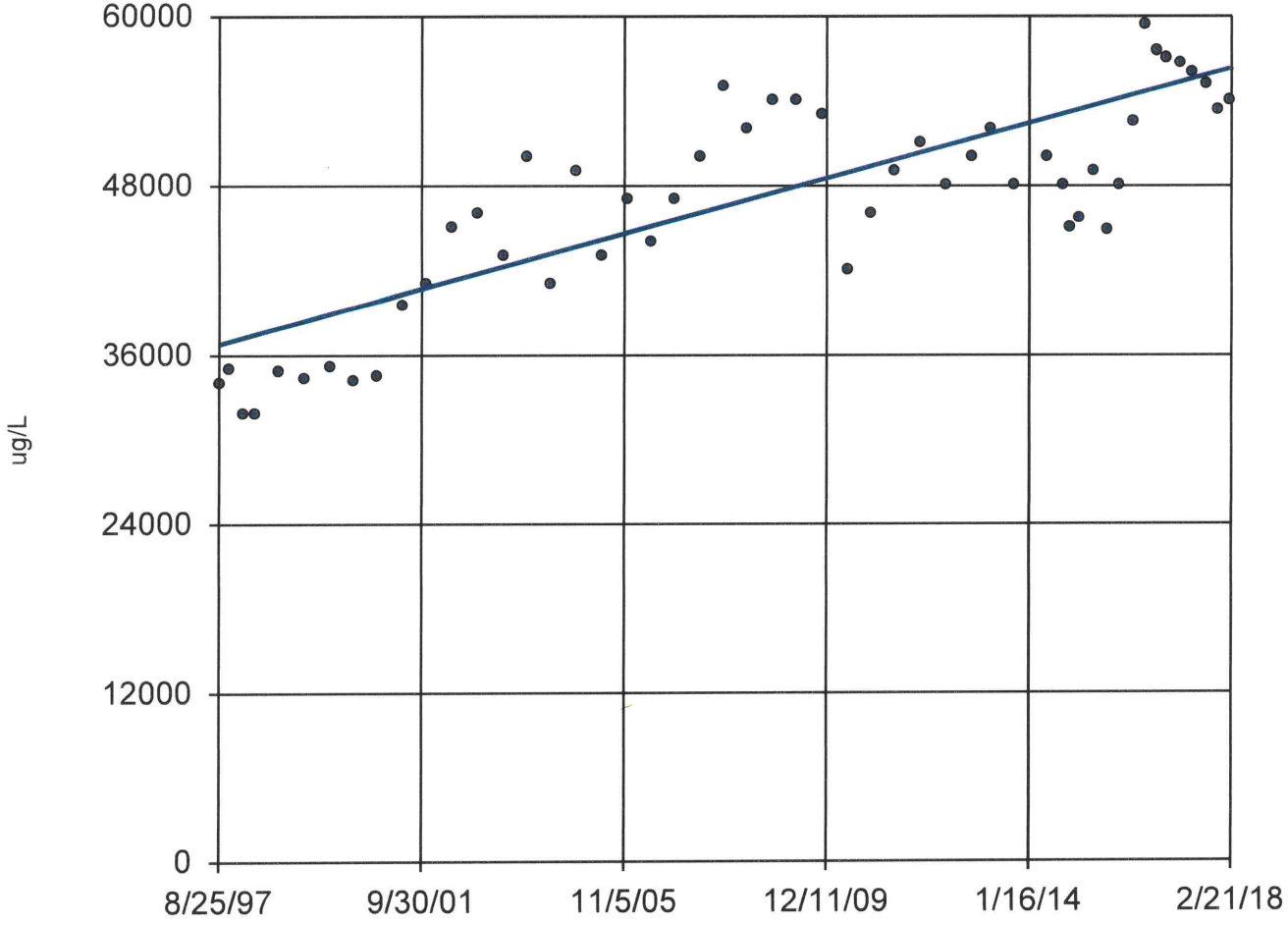
Constituent: Iron Total Analysis Run 4/17/2018 12:00 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

105-SS



n = 51

Slope = 955.4 units per year.

Mann-Kendall normal approx. = 6.033
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 4/17/2018 12:01 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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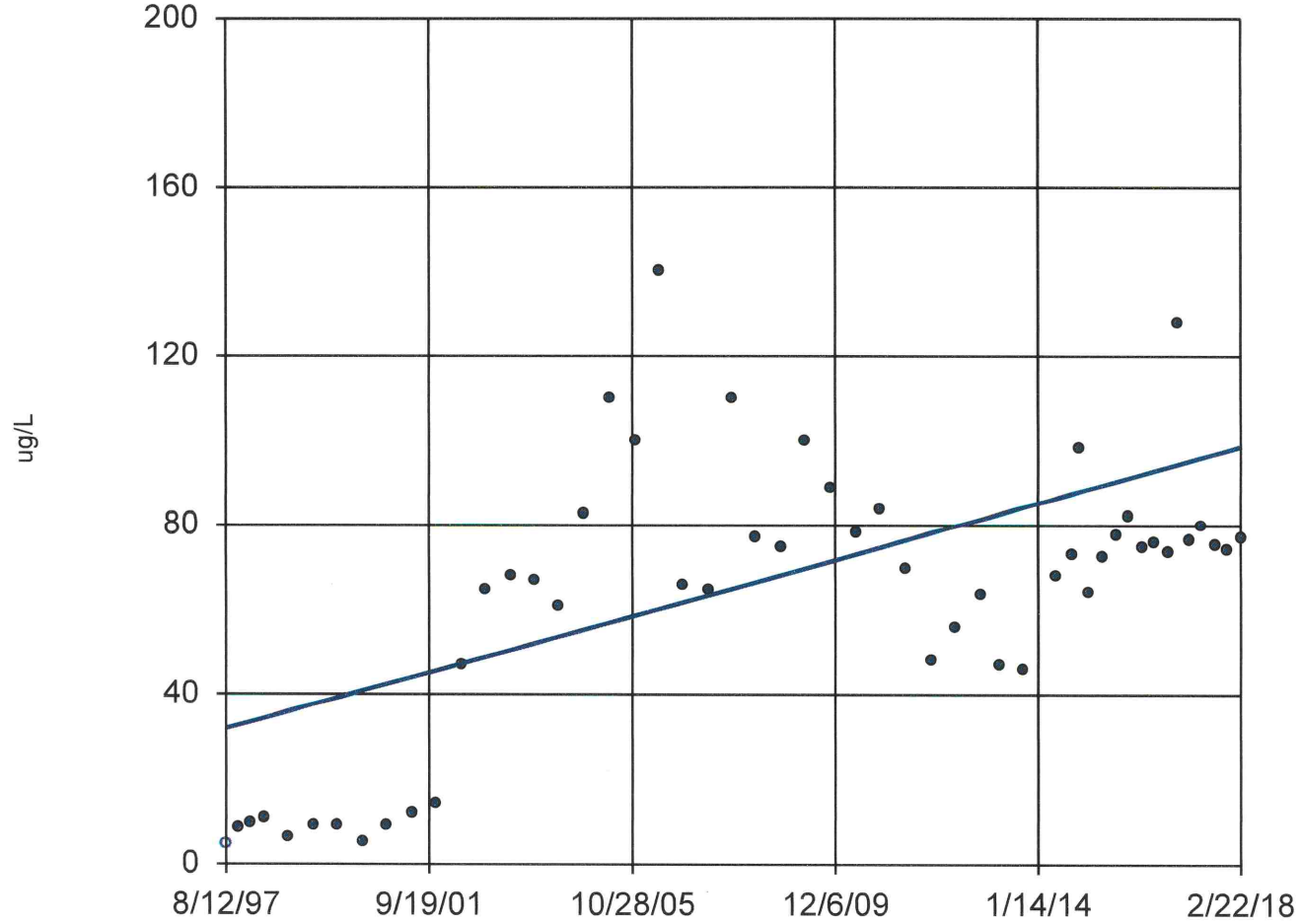
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS



n = 51

Slope = 3.251 units per year.

Mann-Kendall normal approx. = 4.2
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 4/17/2018 12:02 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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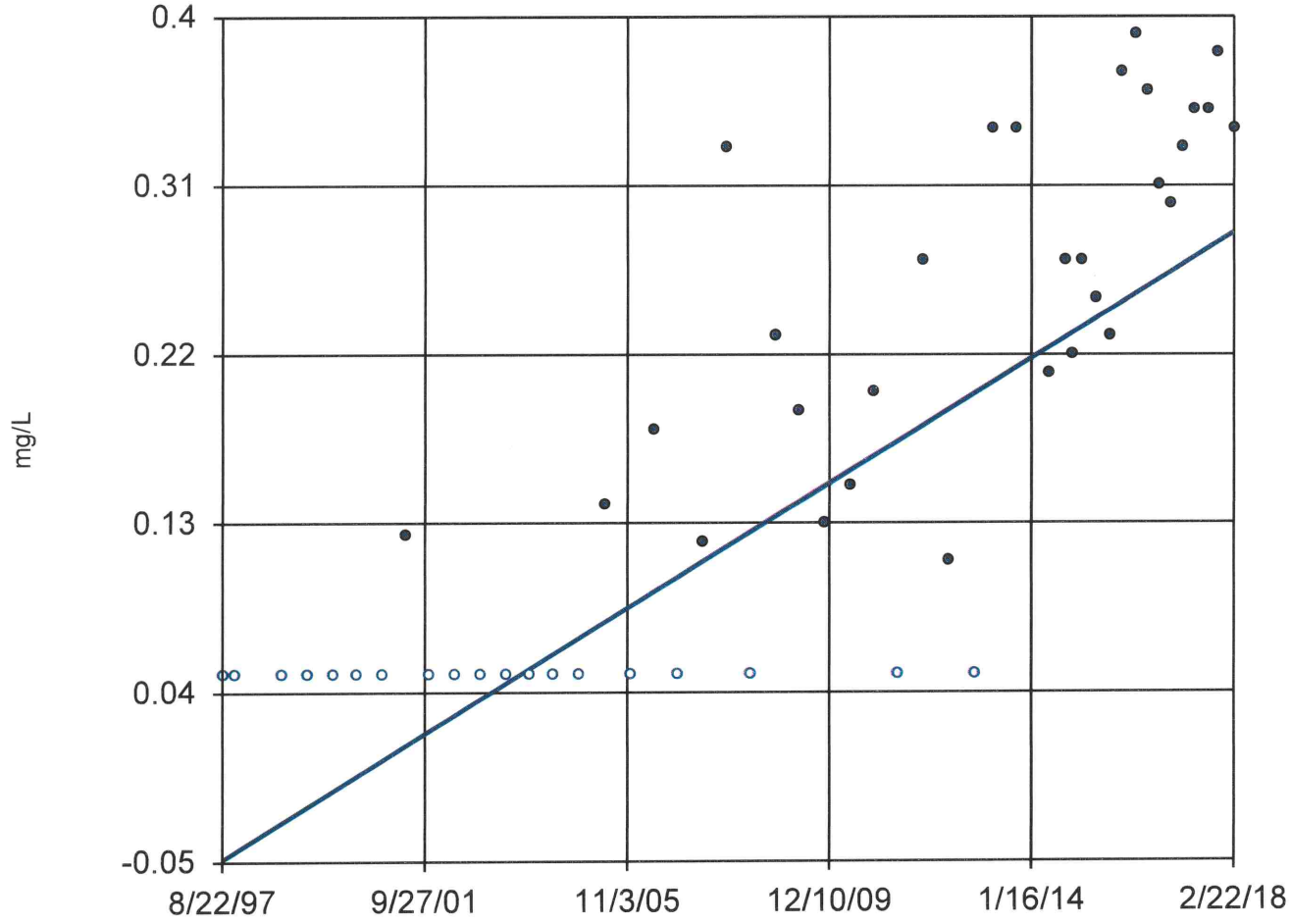
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS



n = 49

Slope = 0.01626 units per year.

Mann-Kendall normal approx. = 6.522
critical = 2.33

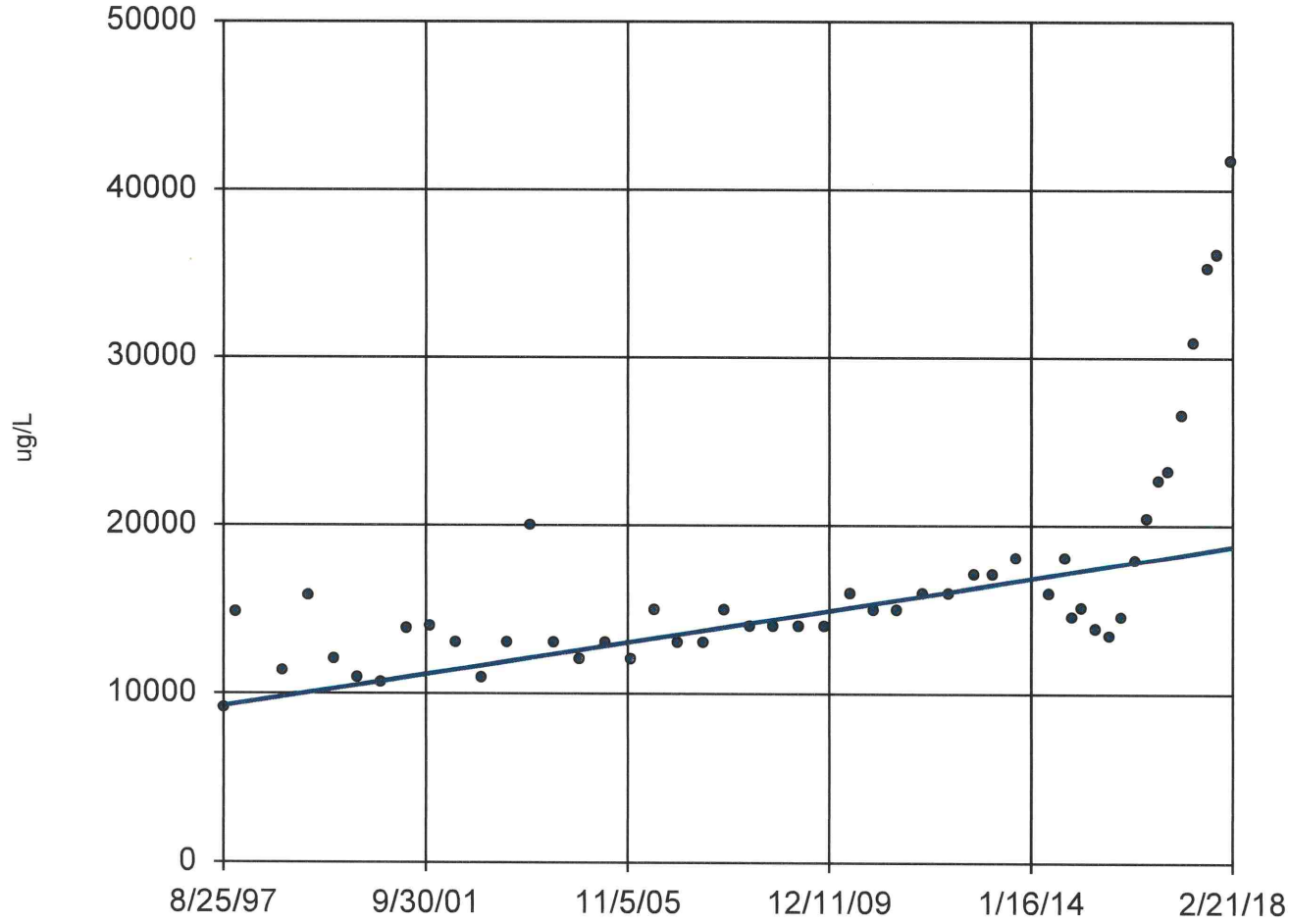
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nitrate/Nitrite Analysis Run 4/17/2018 12:03 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

106-SS



n = 49

Slope = 463.4 units per year.

Mann-Kendall normal approx. = 6.265
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 4/17/2018 12:05 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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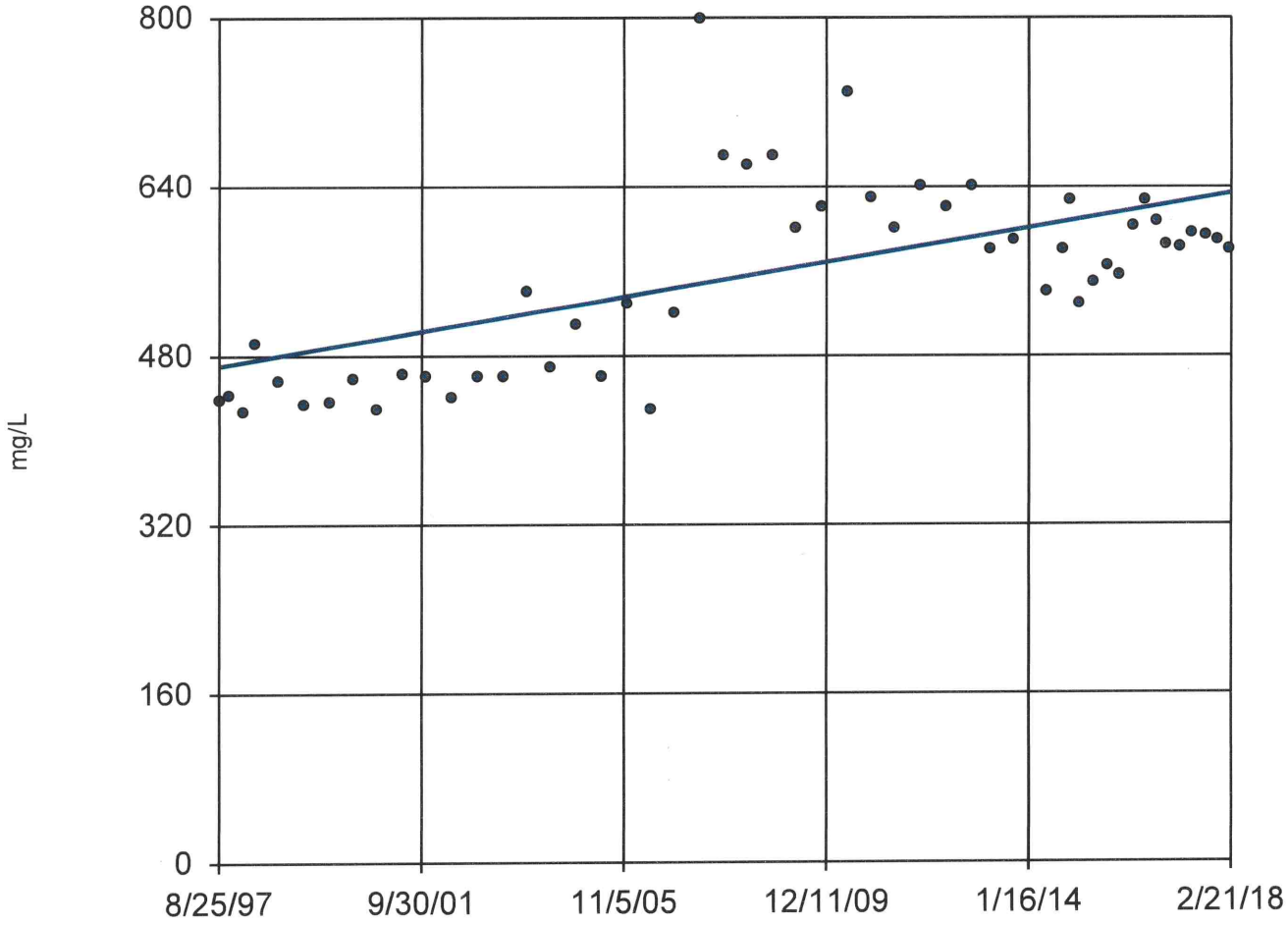
Sen's Slope Estimator

105-SS



n = 51

Slope = 7.986 units per year.

Mann-Kendall normal approx. = 4.266
critical = 2.33

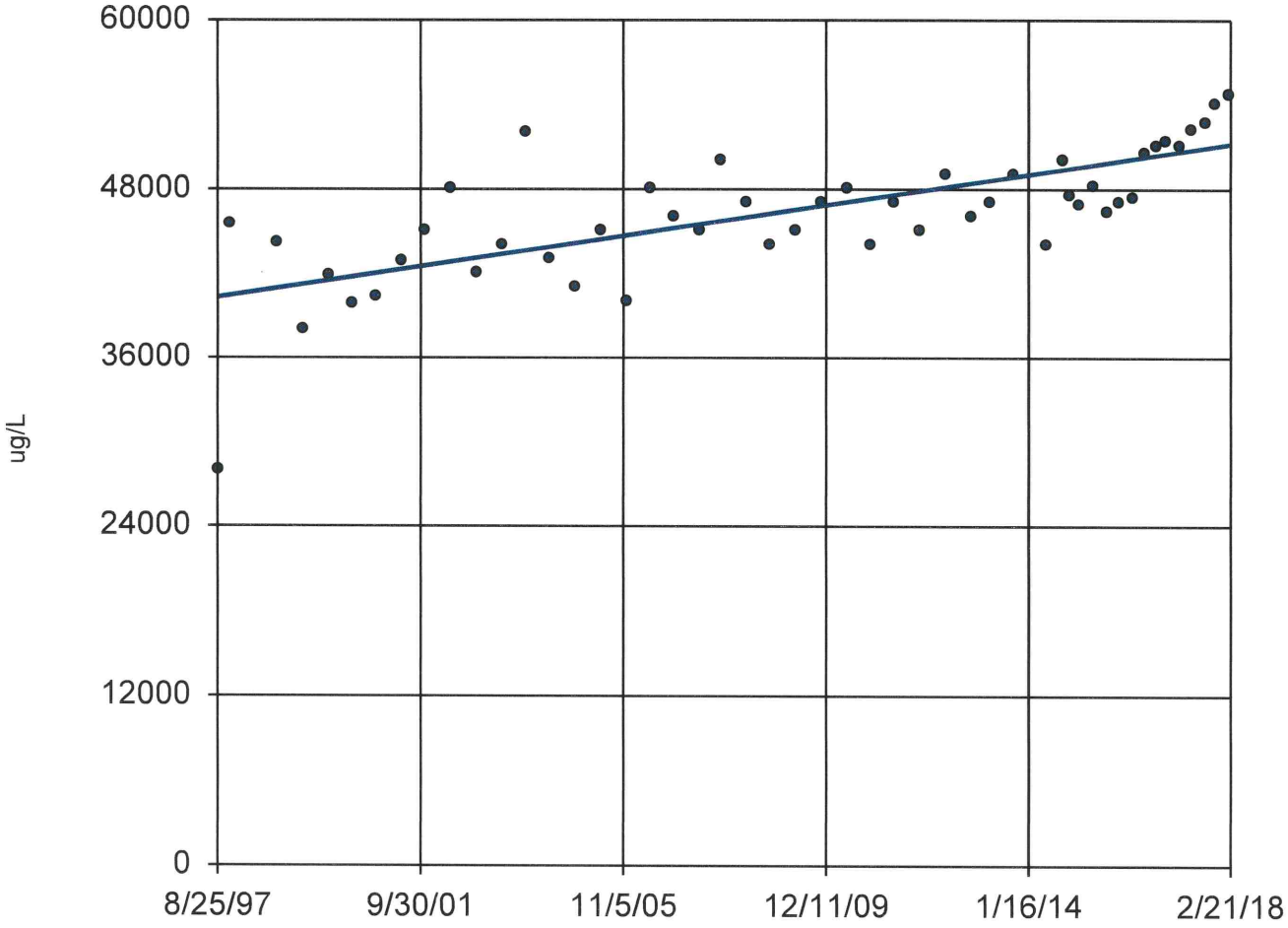
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2018 12:06 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

106-SS



n = 49

Slope = 531.6 units per year.

Mann-Kendall normal approx. = 5.924
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

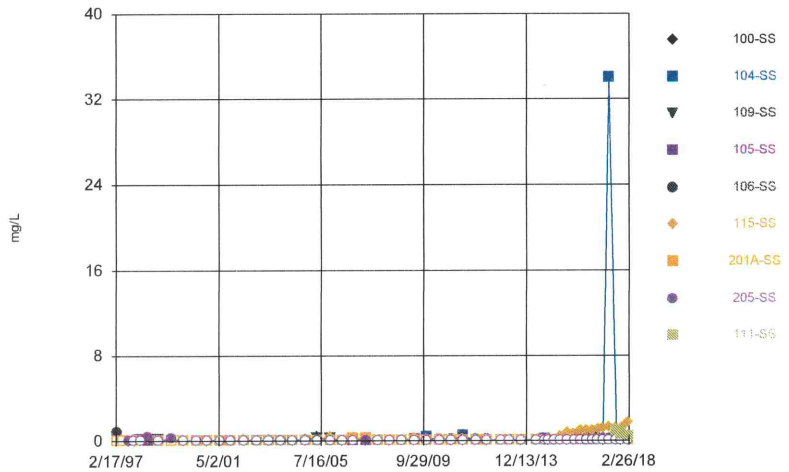
Constituent: Magnesium Total Analysis Run 4/17/2018 12:32 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

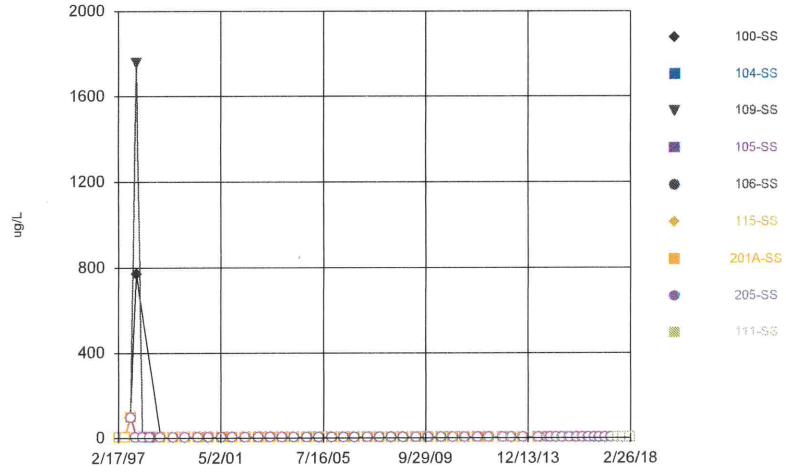
Time Series



Constituent: Ammonia as N Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

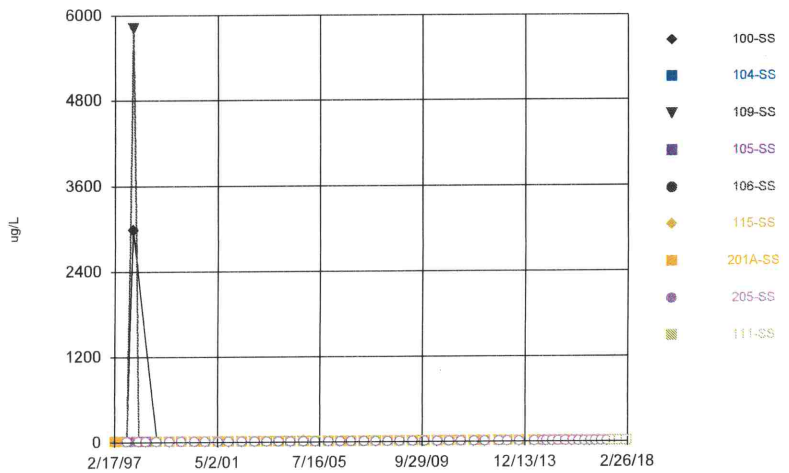
Time Series



Constituent: Antimony Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

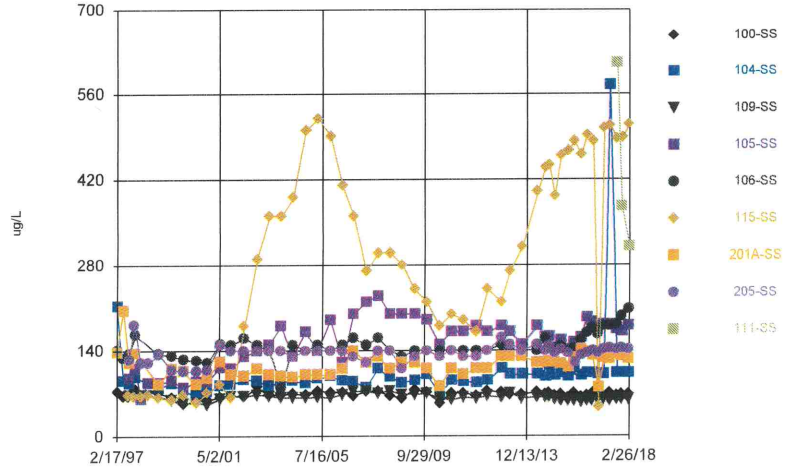
Time Series



Constituent: Arsenic Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

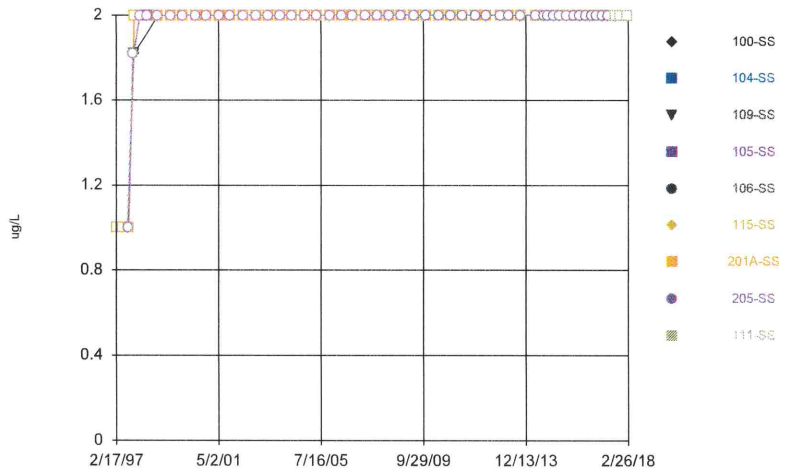
Time Series



Constituent: Barium Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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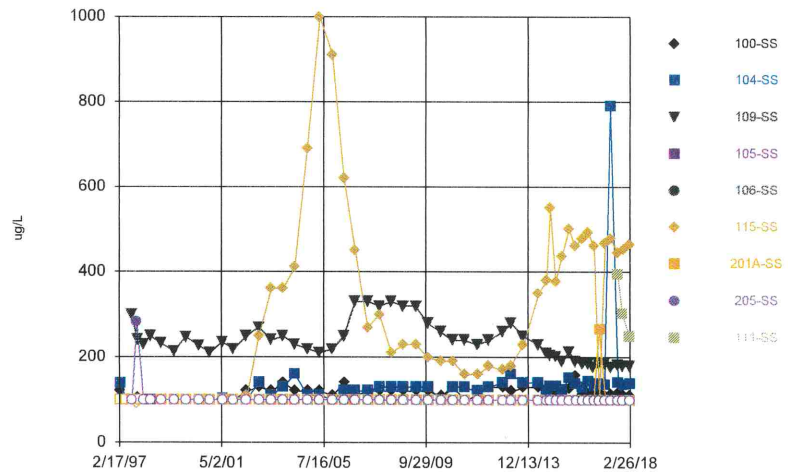
Hollow symbols indicate censored values.

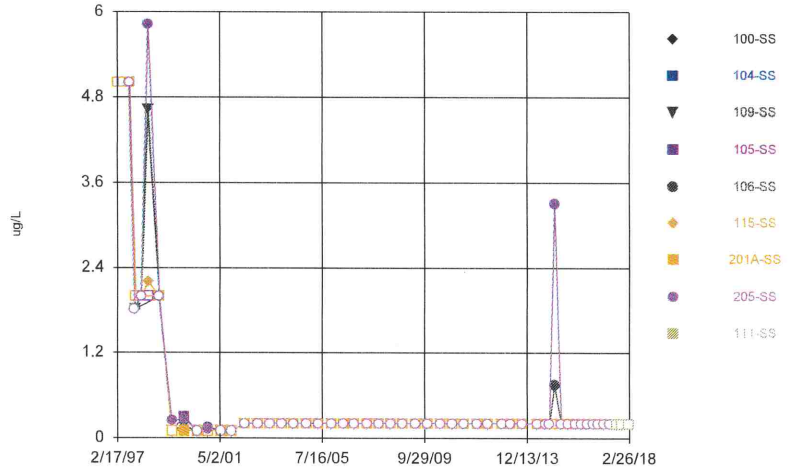
Time Series



Constituent: Boron Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

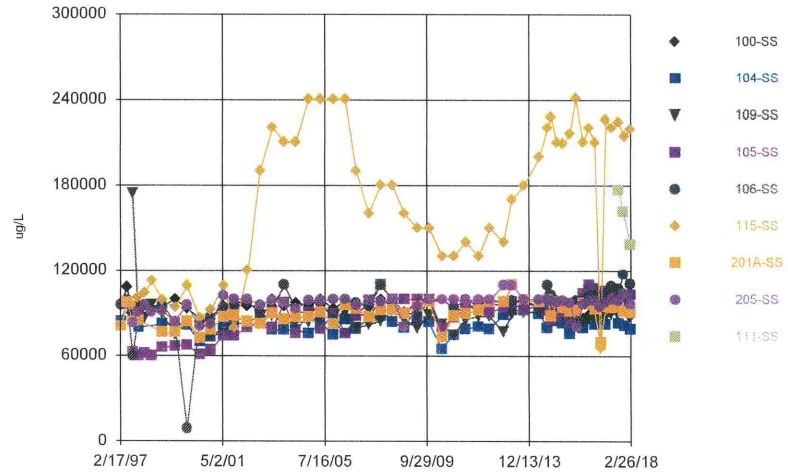
Time Series



Constituent: Cadmium Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

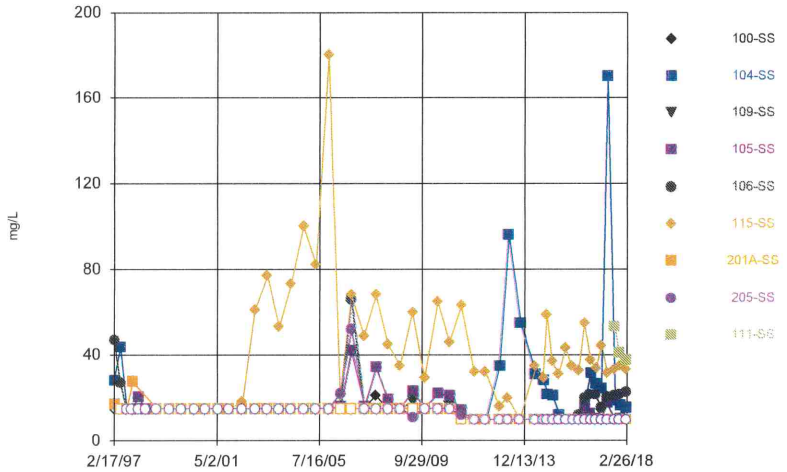
Time Series



Constituent: Calcium Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

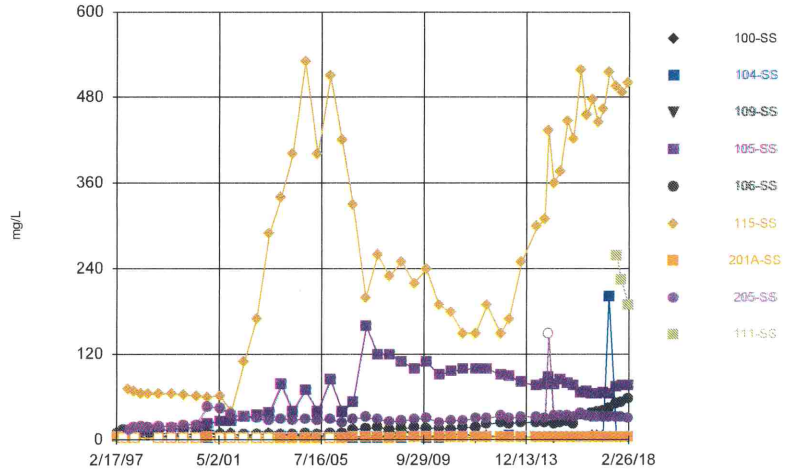
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

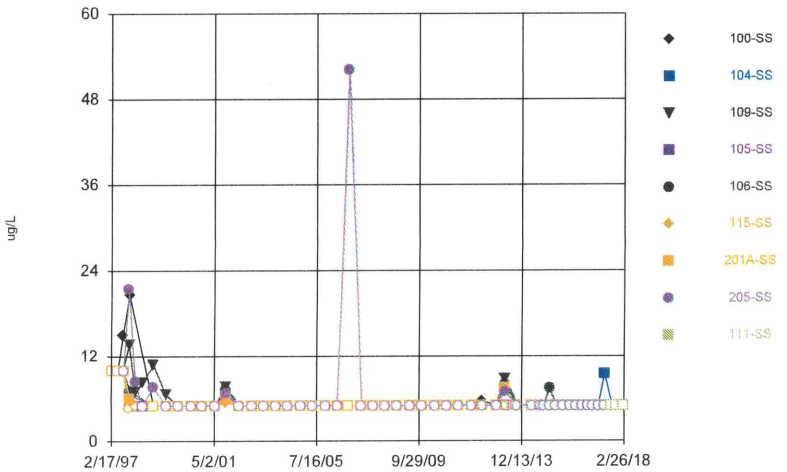
Time Series



Constituent: Chloride Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

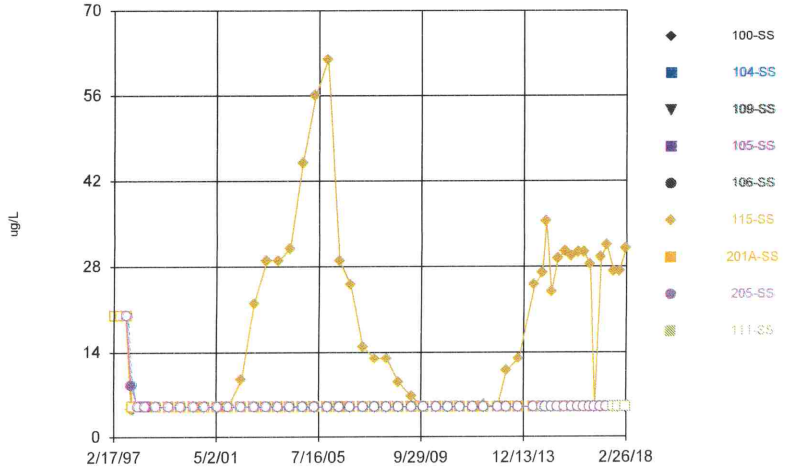
Time Series



Constituent: Chromium Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

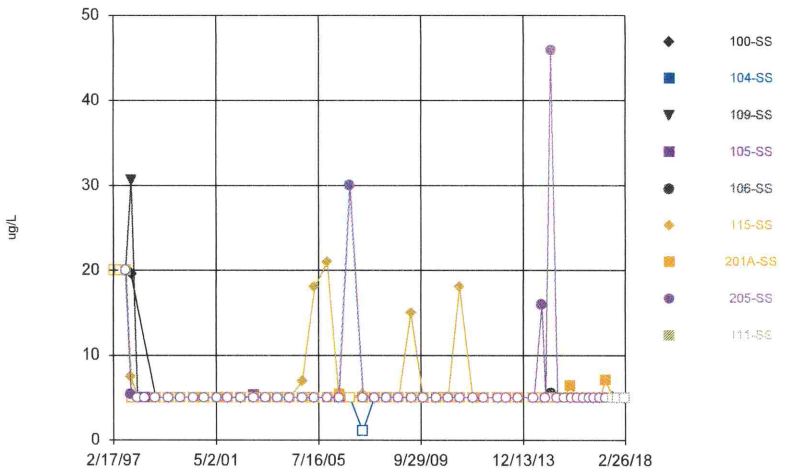
Time Series



Constituent: Cobalt Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

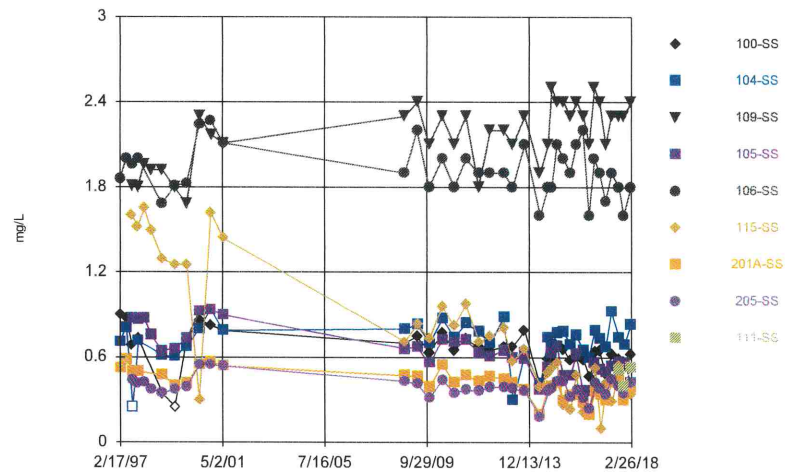
Time Series



Constituent: Copper Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

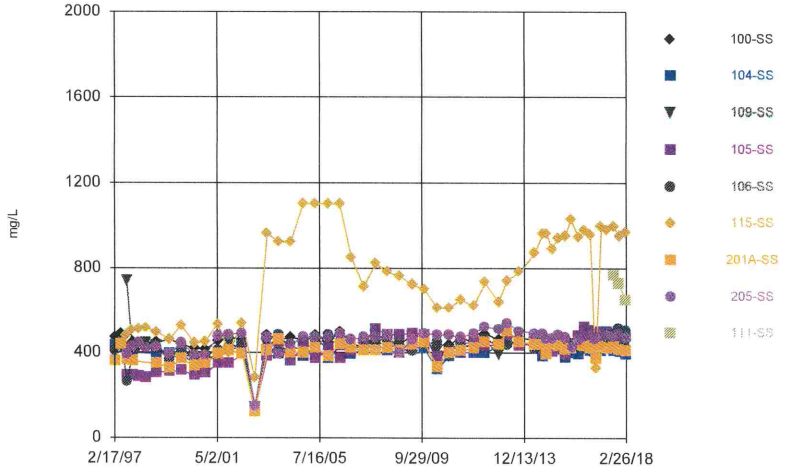
Time Series



Constituent: Fluoride Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

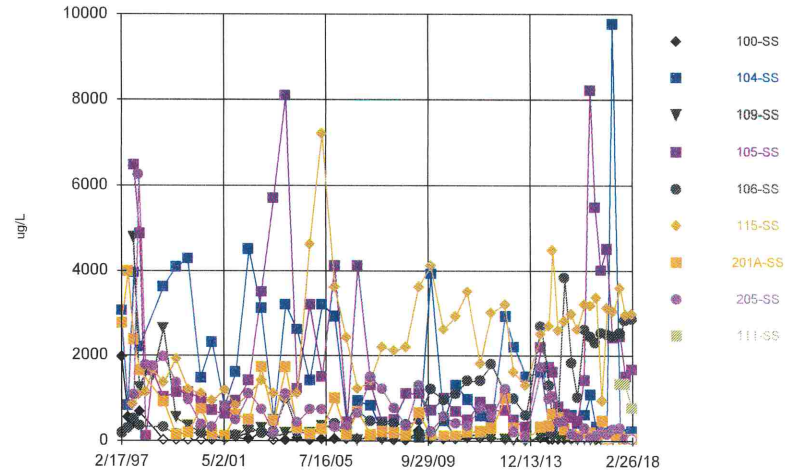
Time Series



Constituent: Hardness Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

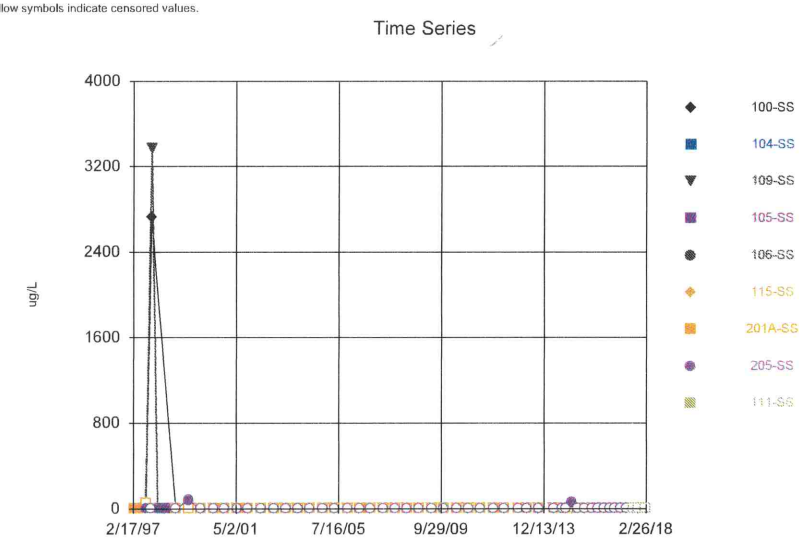
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



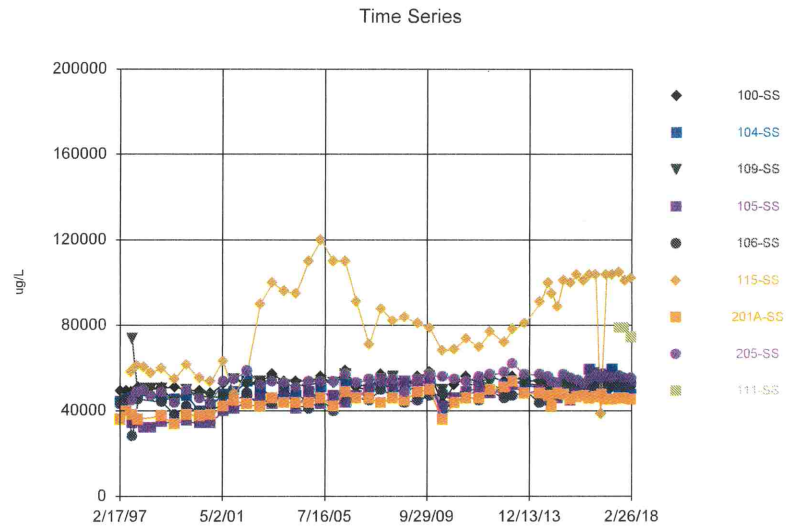
Constituent: Iron Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



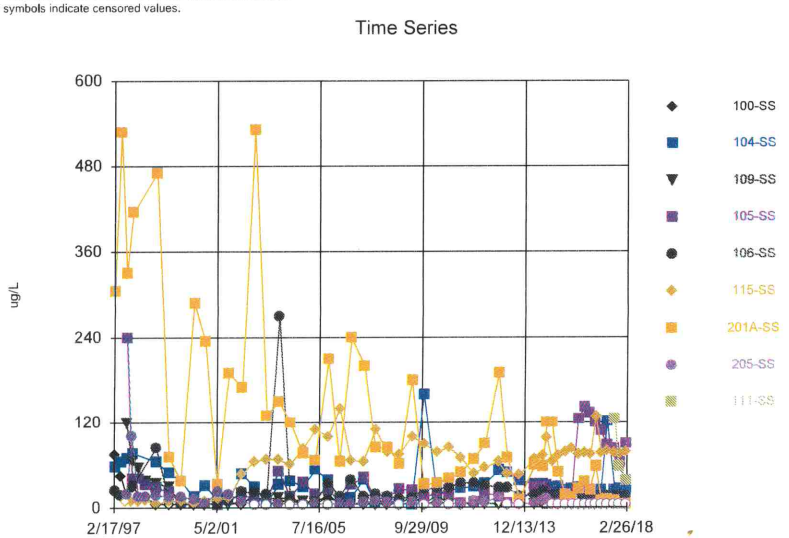
Constituent: Lead Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG



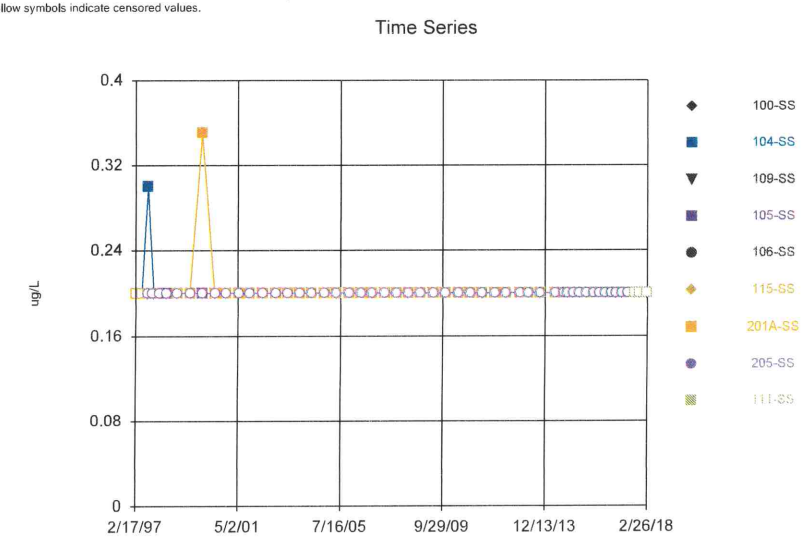
Constituent: Magnesium Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Manganese Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

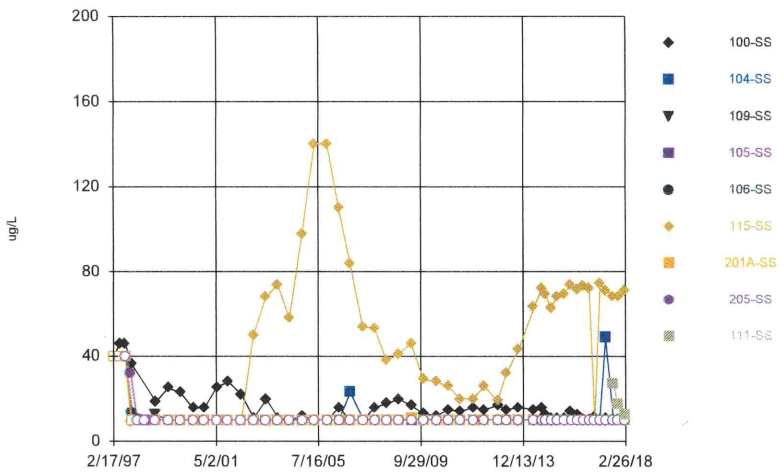
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Mercury Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

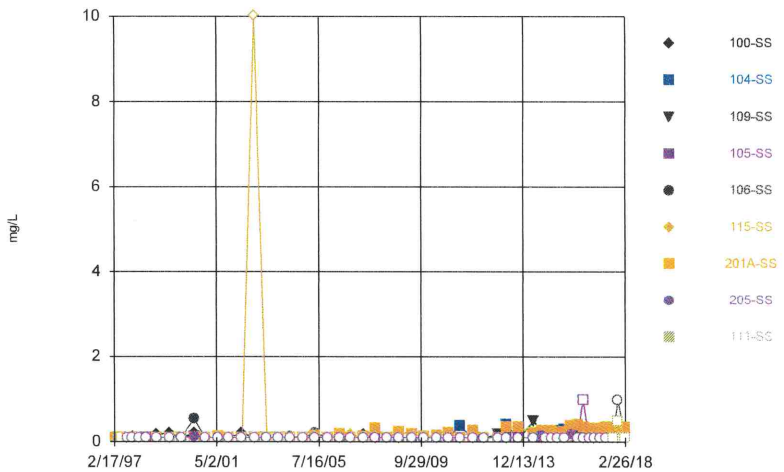
Time Series



Constituent: Nickel Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

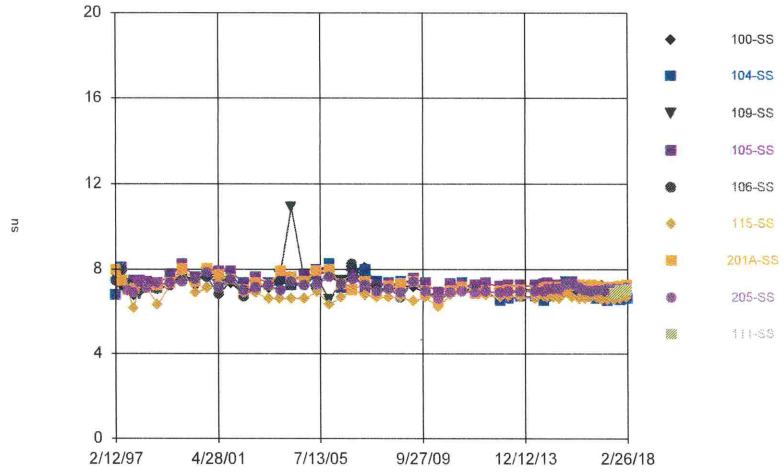
Time Series



Constituent: Nitrate/Nitrite Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

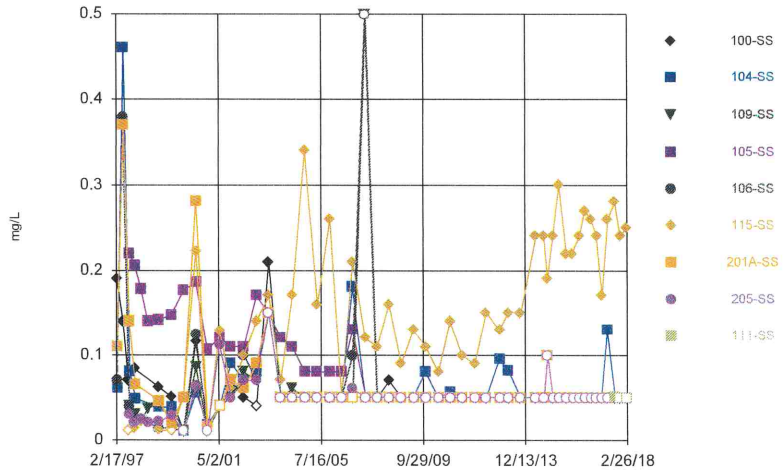
Time Series



Constituent: pH [Field] Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

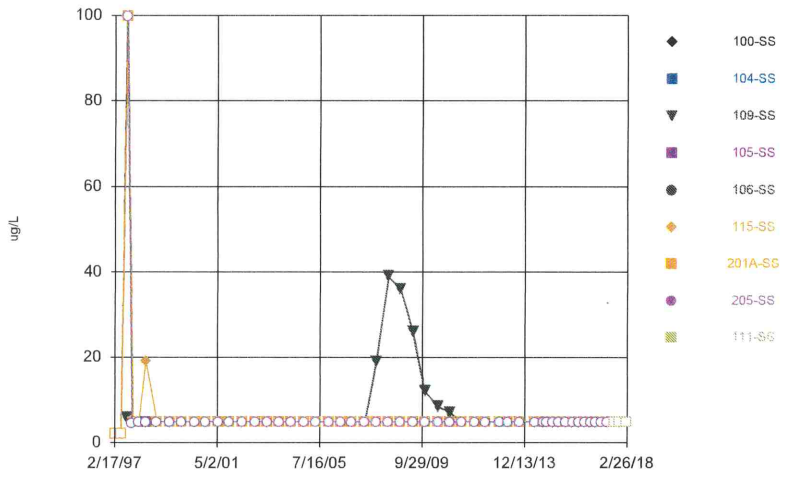
Time Series



Constituent: Phosphorus Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

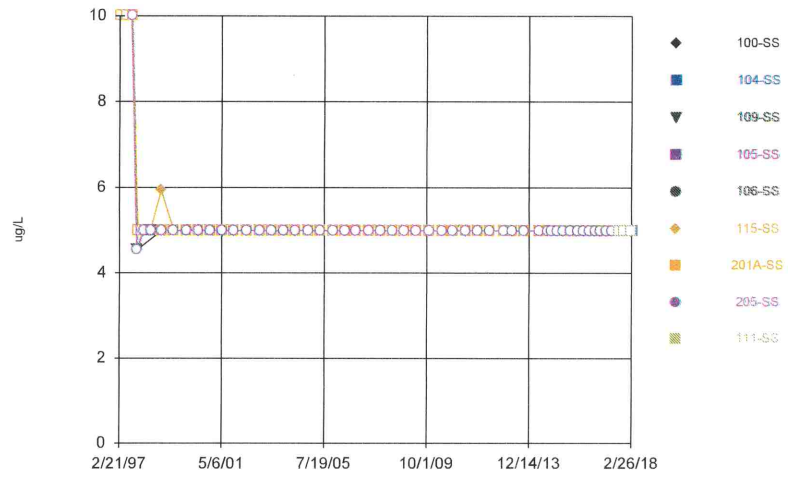
Time Series



Constituent: Selenium Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

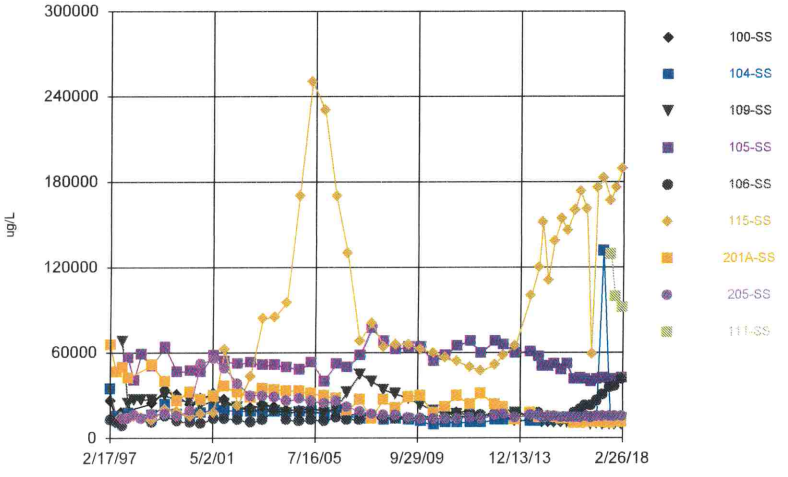
Time Series



Constituent: Silver Total Analysis Run 4/12/2018 4:23 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

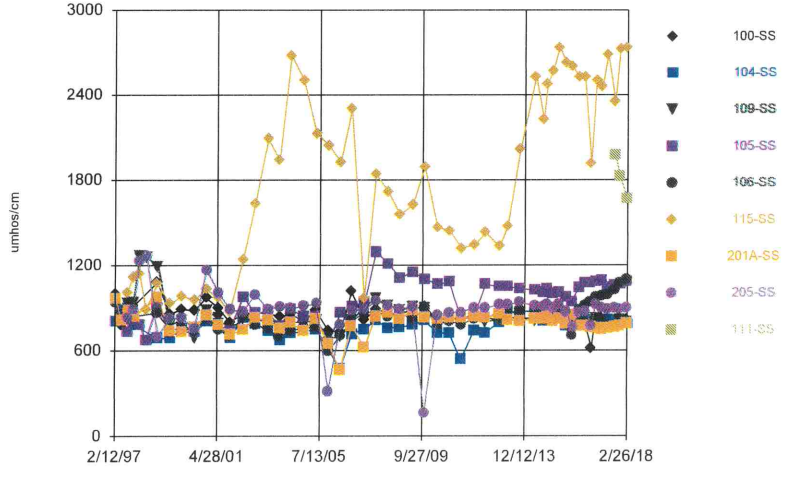
Time Series



Constituent: Sodium Total Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

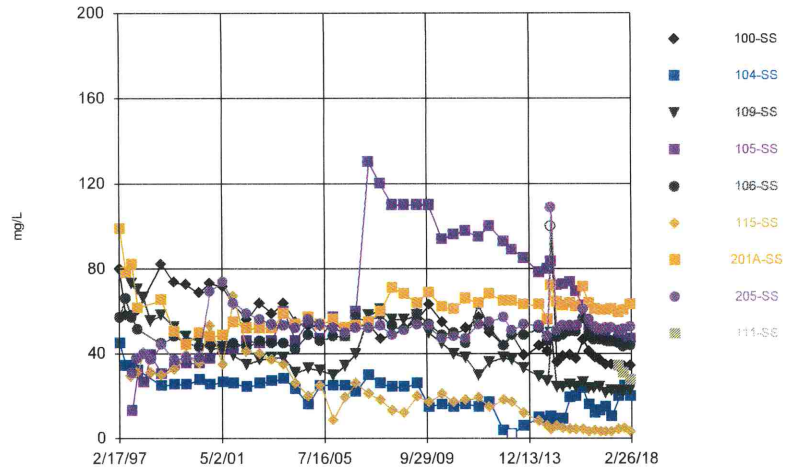
Time Series



Constituent: Specific Conductance [Field] Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

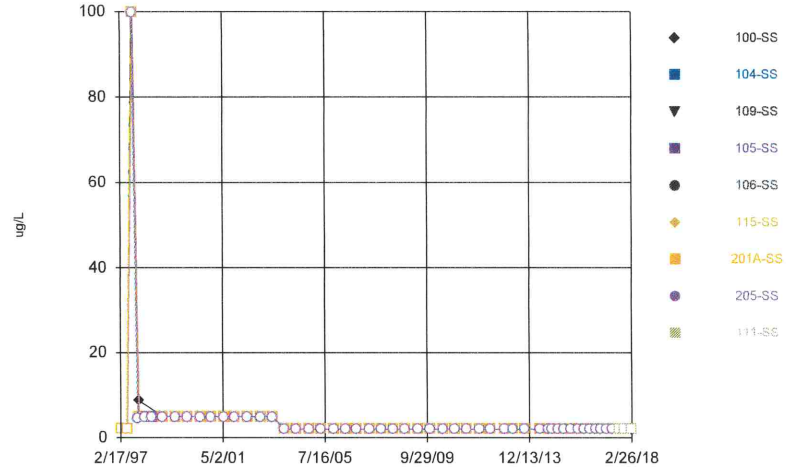
Time Series



Constituent: Sulfate Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

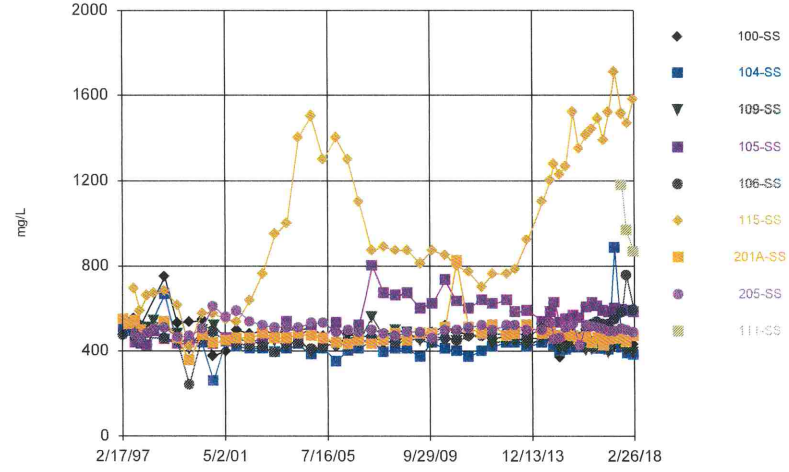
Time Series



Constituent: Thallium Total Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

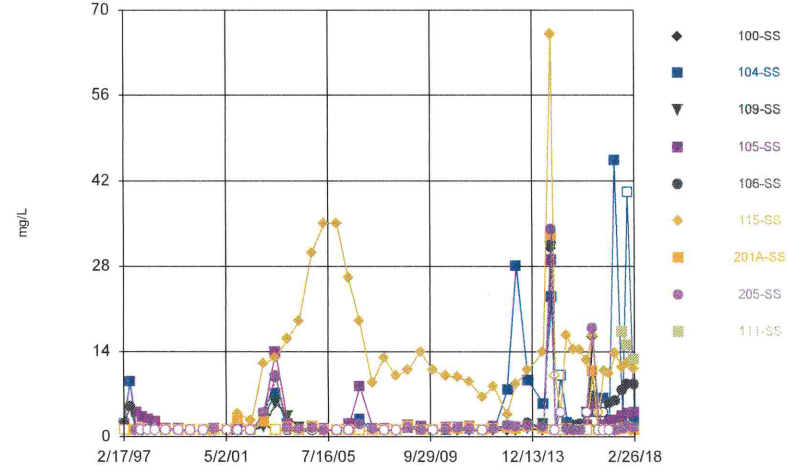
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

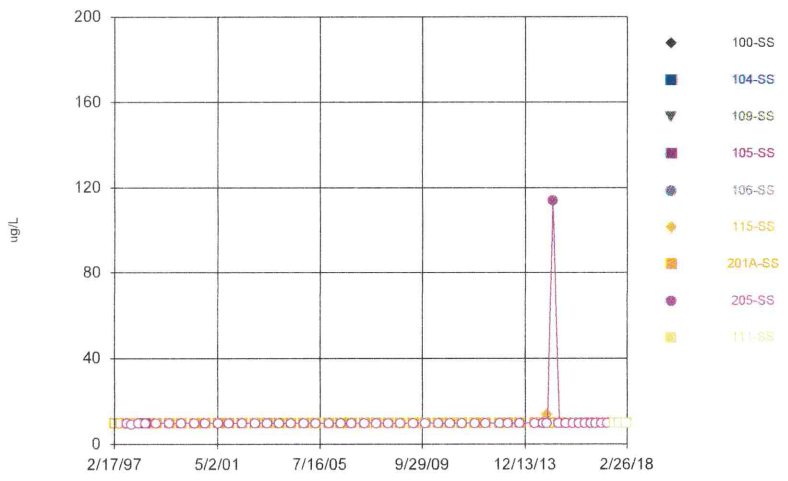
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

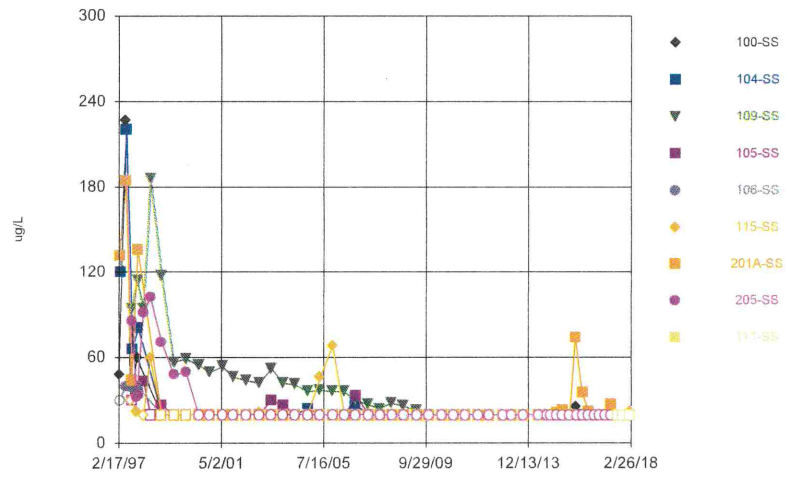
Time Series



Constituent: Vanadium Total Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

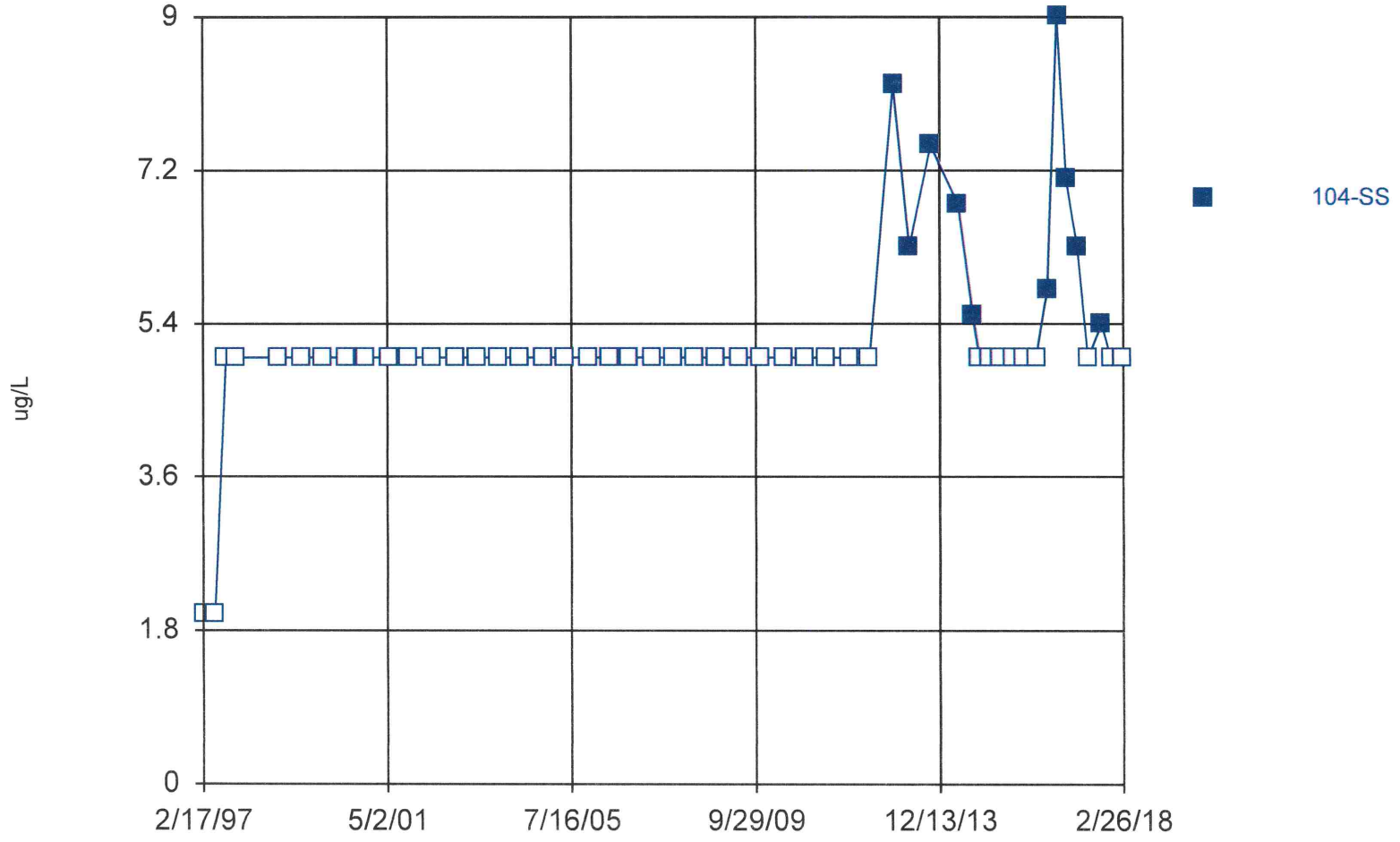
Time Series



Constituent: Zinc Total Analysis Run 4/12/2018 4:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

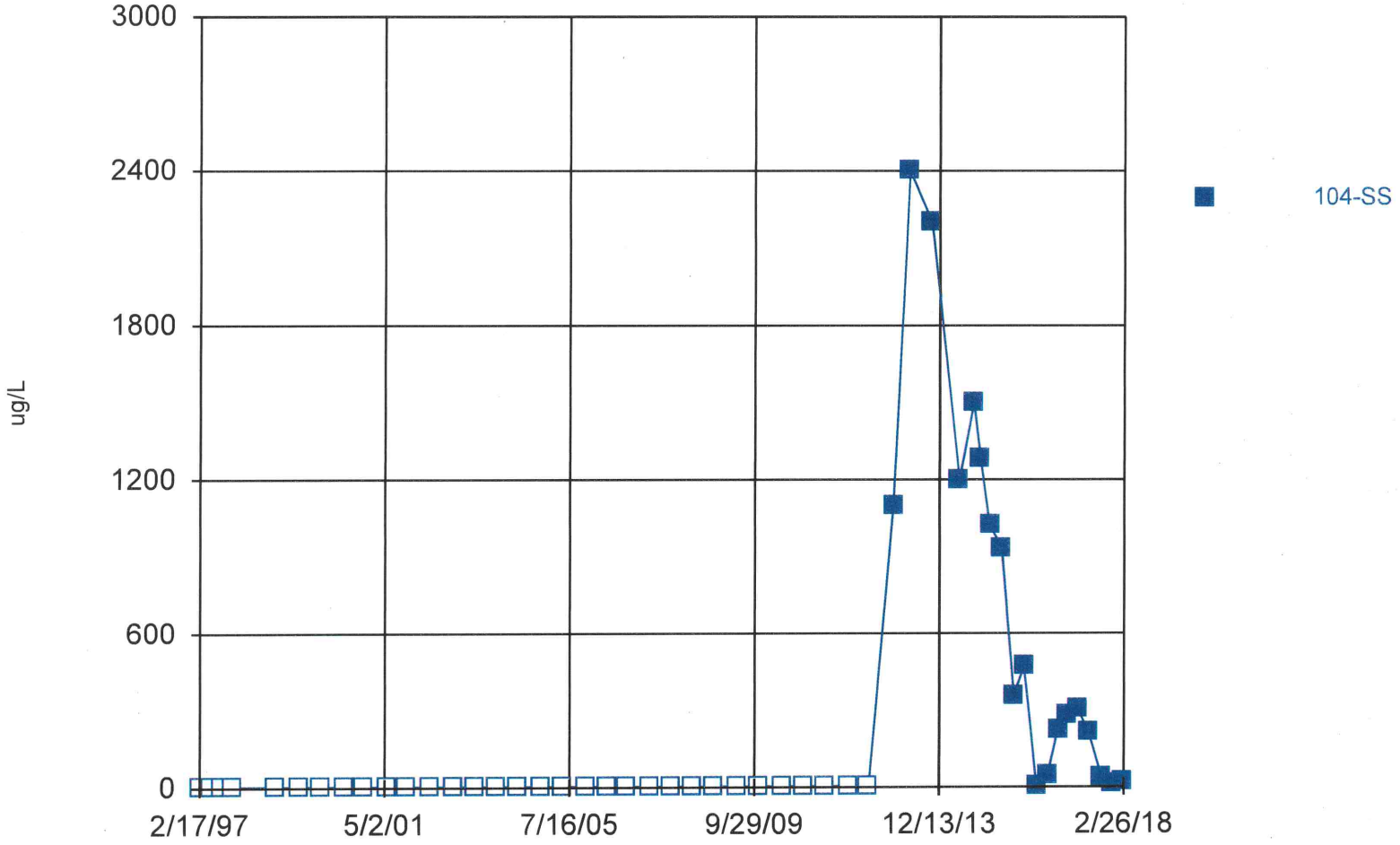


Constituent: 14-Dichlorobenzene Analysis Run 4/12/2018 4:29 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

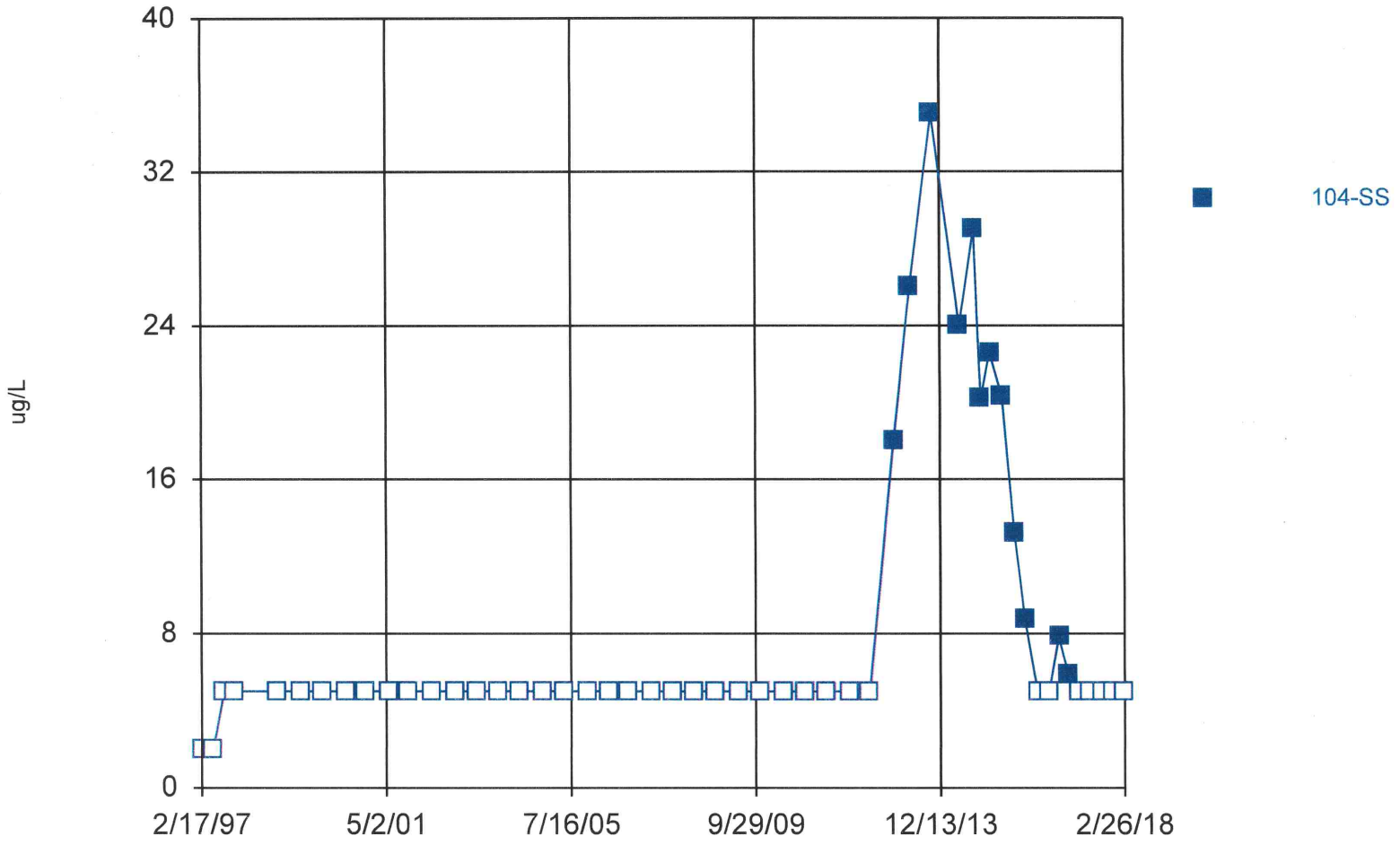


Constituent: Benzene Analysis Run 4/12/2018 4:29 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

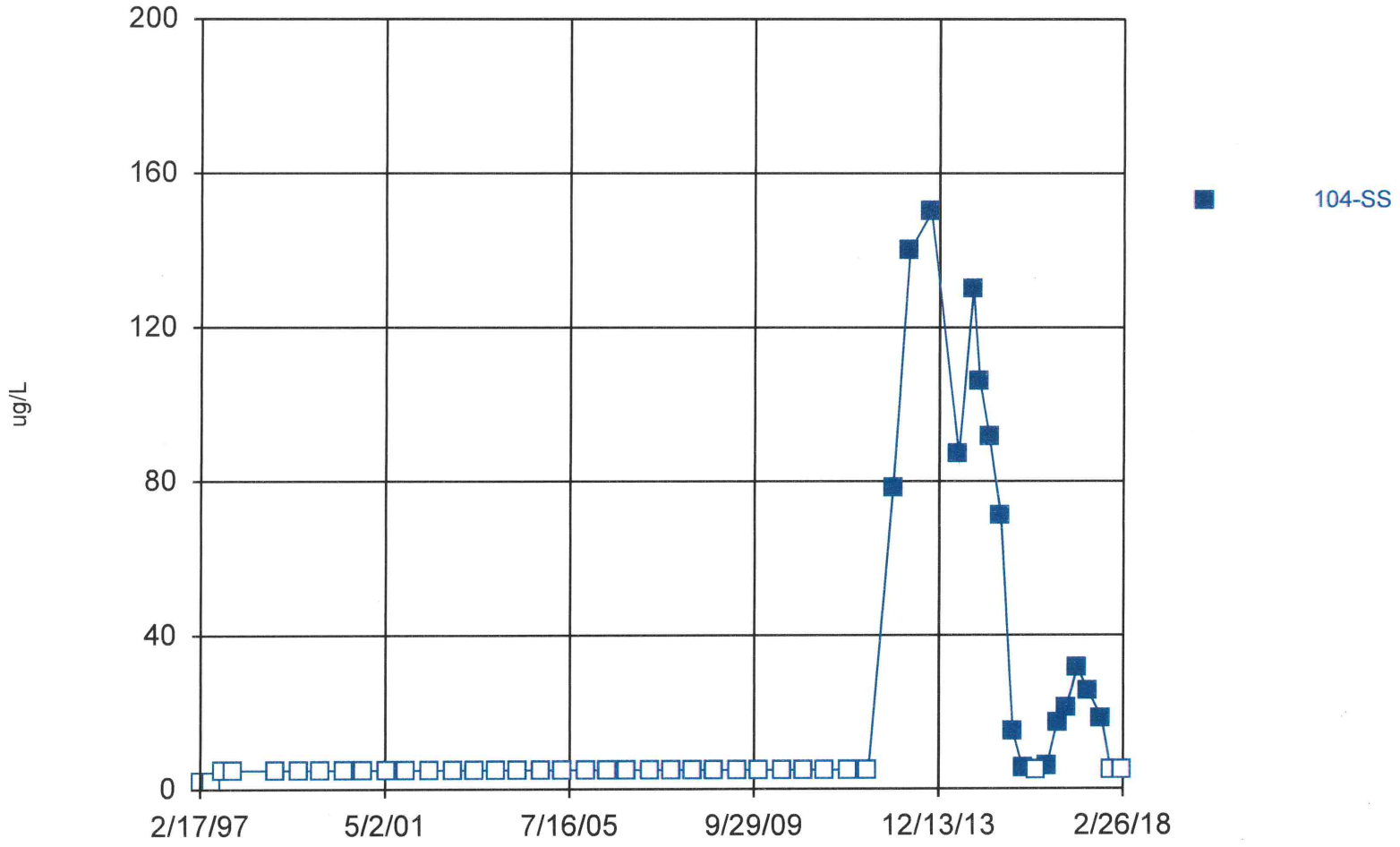


Constituent: Ethylbenzene Analysis Run 4/12/2018 4:29 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

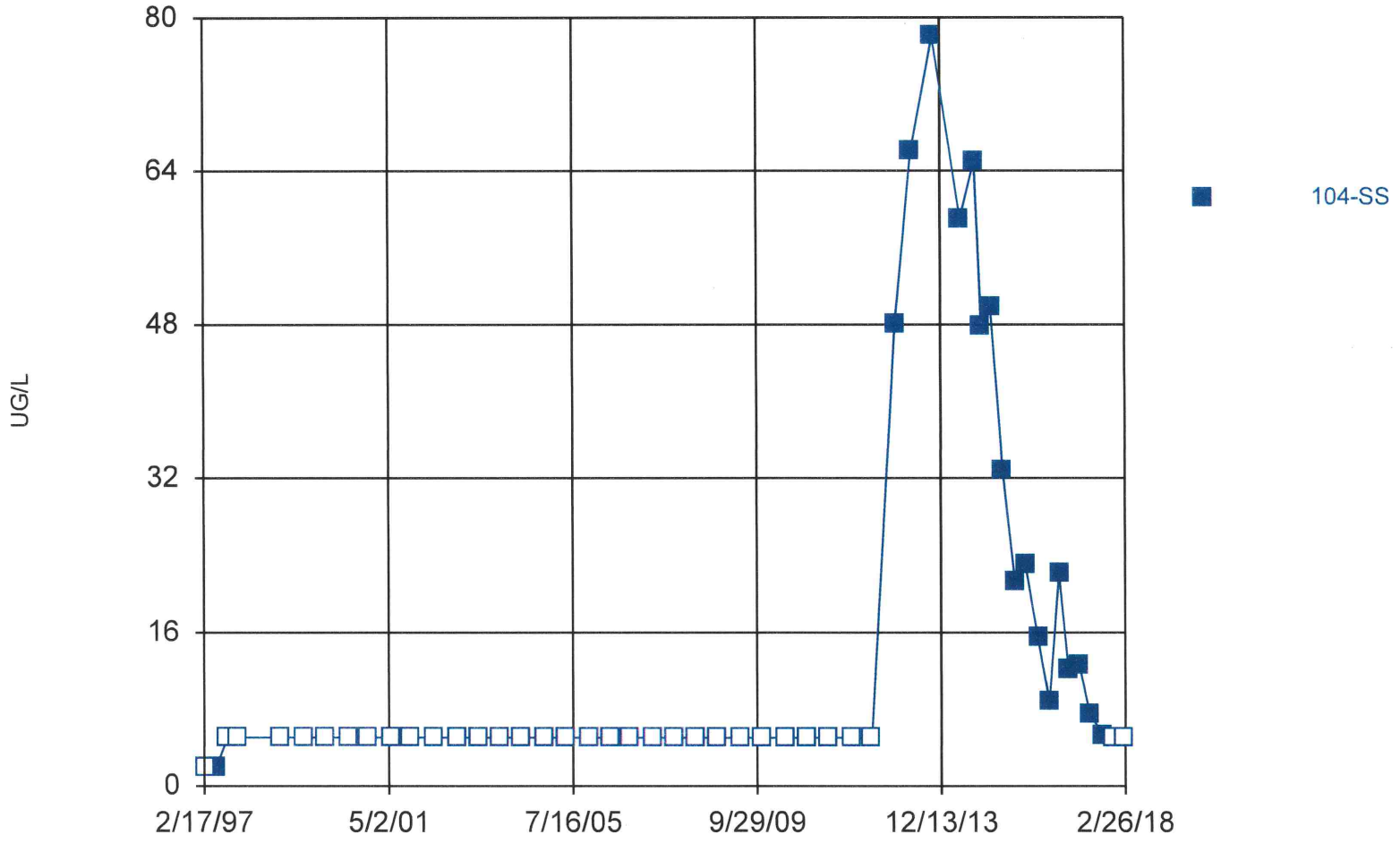


Constituent: Toluene Analysis Run 4/12/2018 4:29 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes [Total] Analysis Run 4/12/2018 4:29 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX E
STATISTICAL EVALUATIONS
SALEM FORMATION

TREND EVALUATION OF BACKGROUND DATA

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Ammonia as N (mg/L)	100-SD (bg)	-0.00...	-131	-201	No	40	2.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	104-SD (bg)	0.01592	150	201	No	40	32.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	**106-SD (bg)**	**0.02107**	**403**	**201**	**Yes**	**40**	**40**	**n/a**	**n/a**	**0.02**	**NP**
Ammonia as N (mg/L)	111-SD (bg)	0	-65	-201	No	40	82.5	n/a	n/a	0.02	NP
Antimony Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	106-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	100-SD (bg)	0	-12	-201	No	40	90	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	**104-SD (bg)**	**0**	**341**	**201**	**Yes**	**40**	**82.5**	**n/a**	**n/a**	**0.02**	**NP**
Arsenic Total (ug/L)	106-SD (bg)	0	31	201	No	40	77.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	111-SD (bg)	0	114	201	No	40	97.5	n/a	n/a	0.02	NP
Barium Total (ug/L)	100-SD (bg)	0.9366	131	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**104-SD (bg)**	**9.667**	**437**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**106-SD (bg)**	**4.028**	**455**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**111-SD (bg)**	**0.5406**	**269**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Beryllium Total (ug/L)	100-SD (bg)	0	17	201	No	40	97.5	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	104-SD (bg)	0	112	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	106-SD (bg)	0	112	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	111-SD (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	**104-SD (bg)**	**0**	**283**	**201**	**Yes**	**40**	**75**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	106-SD (bg)	0	154	201	No	40	85	n/a	n/a	0.02	NP
Boron Total (ug/L)	111-SD (bg)	0	-61	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	100-SD (bg)	0	-66	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	104-SD (bg)	0	-12	-201	No	40	100	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	106-SD (bg)	0	34	201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	111-SD (bg)	0	-35	-201	No	40	100	n/a	n/a	0.02	NP
Calcium Total (ug/L)	100-SD (bg)	-199.7	-173	-201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	104-SD (bg)	275	179	201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**106-SD (bg)**	**963.8**	**234**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	111-SD (bg)	0	-1	-201	No	40	0	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**100-SD (bg)**	**0**	**-356**	**-201**	**Yes**	**40**	**92.5**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**104-SD (bg)**	**1.603**	**366**	**201**	**Yes**	**40**	**62.5**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	106-SD (bg)	0	123	201	No	40	75	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**111-SD (bg)**	**0**	**-366**	**-201**	**Yes**	**40**	**95**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	100-SD (bg)	0	31	201	No	40	90	n/a	n/a	0.02	NP
Chloride (mg/L)	**104-SD (bg)**	**7.593**	**494**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**106-SD (bg)**	**-0.5238**	**-243**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**111-SD (bg)**	**-0.3646**	**-583**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chromium Total (ug/L)	100-SD (bg)	0	-201	-201	No	40	90	n/a	n/a	0.02	NP
Chromium Total (ug/L)	104-SD (bg)	0	126	201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	106-SD (bg)	0	24	201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	111-SD (bg)	0	-113	-201	No	40	95	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	104-SD (bg)	0	-87	-201	No	40	97.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	106-SD (bg)	0	-5	-201	No	40	90	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	104-SD (bg)	0	-37	-201	No	40	95	n/a	n/a	0.02	NP

Trend Test

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Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Copper Total (ug/L)	106-SD (bg)	0	-59	-201	No	40	95	n/a	n/a	0.02	NP
Copper Total (ug/L)	111-SD (bg)	0	-170	-201	No	40	95	n/a	n/a	0.02	NP
Fluoride (mg/L)	100-SD (bg)	0	-24	-186	No	38	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	104-SD (bg)	-0.00...	-133	-186	No	38	5.263	n/a	n/a	0.02	NP
Fluoride (mg/L)	106-SD (bg)	0.009986	129	186	No	38	2.632	n/a	n/a	0.02	NP
Fluoride (mg/L)	111-SD (bg)	0.000...	76	186	No	38	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	100-SD (bg)	0	-54	-201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**104-SD (bg)**	**3.617**	**289**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**106-SD (bg)**	**5.378**	**273**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	111-SD (bg)	0	5	201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**100-SD (bg)**	**-43.81**	**-299**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	104-SD (bg)	96.79	157	201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**106-SD (bg)**	**133.3**	**256**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	111-SD (bg)	-44.22	-199	-201	No	40	0	n/a	n/a	0.02	NP
Lead Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	106-SD (bg)	0	96	201	No	40	97.5	n/a	n/a	0.02	NP
Lead Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	100-SD (bg)	3.08	70	201	No	40	0	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**104-SD (bg)**	**595.7**	**376**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**106-SD (bg)**	**446.9**	**249**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	111-SD (bg)	-31.99	-67	-201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**100-SD (bg)**	**-6.669**	**-667**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	104-SD (bg)	1.929	171	201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	106-SD (bg)	-2.705	-60	-201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**111-SD (bg)**	**-0.7201**	**-457**	**-201**	**Yes**	**40**	**45**	**n/a**	**n/a**	**0.02**	**NP**
Mercury Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	104-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	106-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	111-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	104-SD (bg)	0	198	201	No	40	75	n/a	n/a	0.02	NP
Nickel Total (ug/L)	106-SD (bg)	0	15	201	No	40	90	n/a	n/a	0.02	NP
Nickel Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	104-SD (bg)	0	-8	-201	No	40	95	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	106-SD (bg)	0	-63	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	111-SD (bg)	0	15	201	No	40	90	n/a	n/a	0.02	NP
pH [Field] (su)	100-SD (bg)	-0.01949	-136	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**104-SD (bg)**	**-0.04514**	**-318**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	**106-SD (bg)**	**-0.03461**	**-354**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	111-SD (bg)	-0.01585	-138	-201	No	40	0	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**100-SD (bg)**	**-0.00...**	**-354**	**-201**	**Yes**	**40**	**65**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	104-SD (bg)	0	116	201	No	40	47.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	106-SD (bg)	0.004108	185	201	No	40	15	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	111-SD (bg)	0	3	201	No	40	72.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	106-SD (bg)	0	74	201	No	40	97.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP

Trend Test

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Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Silver Total (ug/L)	100-SD (bg)	0	-25	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	104-SD (bg)	0	-28	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	106-SD (bg)	0	-63	-194	No	39	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	111-SD (bg)	0	-98	-194	No	39	100	n/a	n/a	0.02	NP
Sodium Total (ug/L)	**100-SD (bg)**	**-253.5**	**-546**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**104-SD (bg)**	**3202**	**597**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**106-SD (bg)**	**-1074**	**-298**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	111-SD (bg)	-74.78	-132	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	100-SD (bg)	-0.9396	-91	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**104-SD (bg)**	**26.36**	**365**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	106-SD (bg)	-4.65	-136	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**111-SD (bg)**	**-4.974**	**-243**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	100-SD (bg)	0	29	201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	104-SD (bg)	-1.274	-176	-201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**106-SD (bg)**	**-4.359**	**-587**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**111-SD (bg)**	**-0.7977**	**-581**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**100-SD (bg)**	**0**	**-303**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**104-SD (bg)**	**0**	**-270**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**106-SD (bg)**	**0**	**-270**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**111-SD (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**100-SD (bg)**	**-2.689**	**-301**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**104-SD (bg)**	**16.66**	**360**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	106-SD (bg)	-7.344	-193	-201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	**111-SD (bg)**	**-2.784**	**-253**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	100-SD (bg)	0	-82	-201	No	40	32.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	**104-SD (bg)**	**0.2006**	**433**	**201**	**Yes**	**40**	**50**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	**106-SD (bg)**	**0.07738**	**270**	**201**	**Yes**	**40**	**35**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	111-SD (bg)	0	145	201	No	40	42.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	104-SD (bg)	0	159	201	No	40	87.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	106-SD (bg)	0	109	201	No	40	90	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	111-SD (bg)	0	9	201	No	40	97.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	**100-SD (bg)**	**0**	**-218**	**-201**	**Yes**	**40**	**82.5**	**n/a**	**n/a**	**0.02**	**NP**
Zinc Total (ug/L)	104-SD (bg)	0	-111	-201	No	40	77.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	106-SD (bg)	0	-166	-201	No	40	80	n/a	n/a	0.02	NP
Zinc Total (ug/L)	111-SD (bg)	0	-162	-201	No	40	82.5	n/a	n/a	0.02	NP

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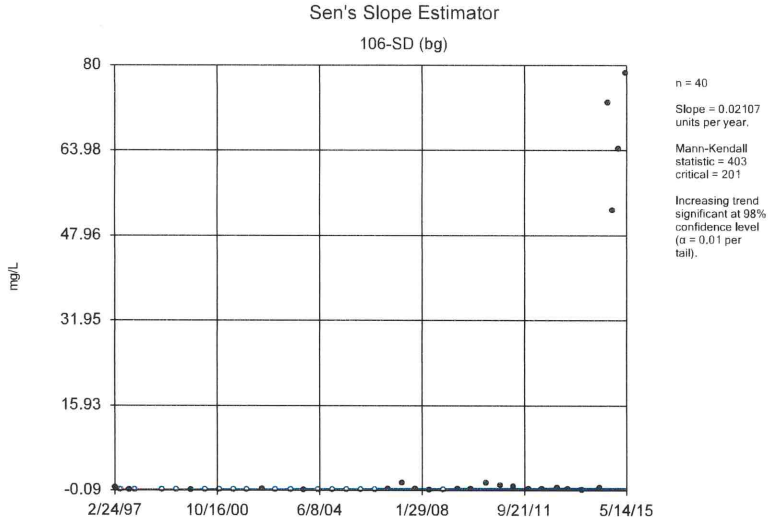
Hollow symbols indicate censored values.



Constituent: Ammonia as N Analysis Run 1/7/2016 1:19 PM
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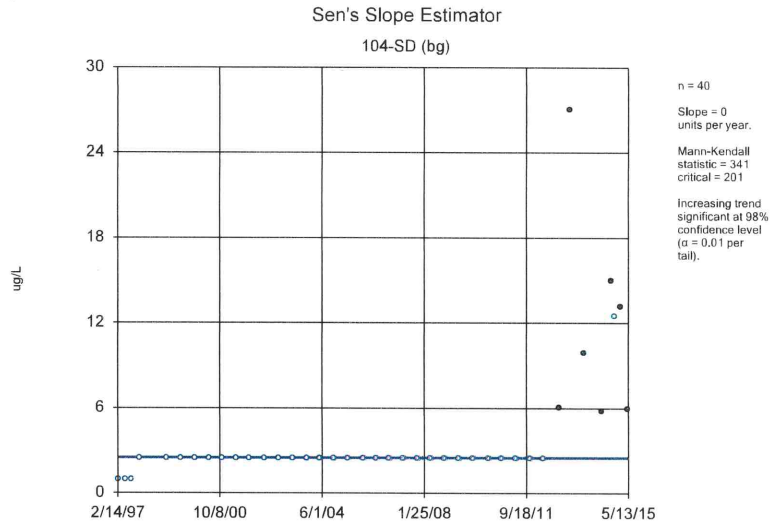

Constituent: Arsenic Total Analysis Run 1/7/2016 1:19 PM
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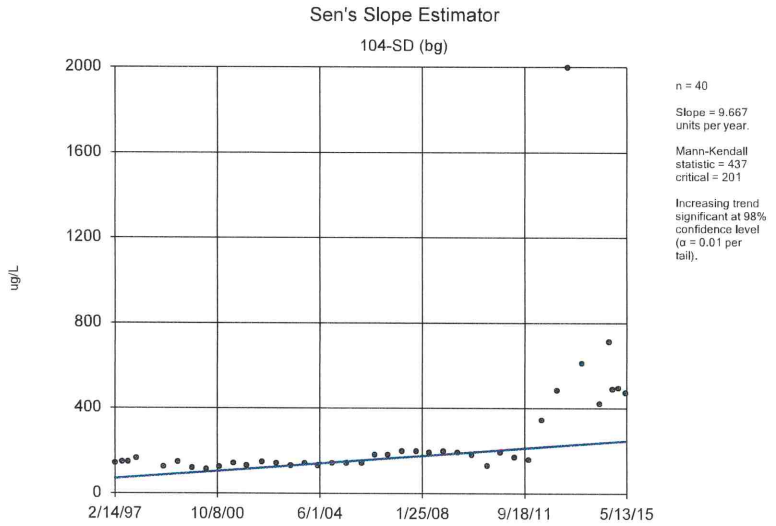

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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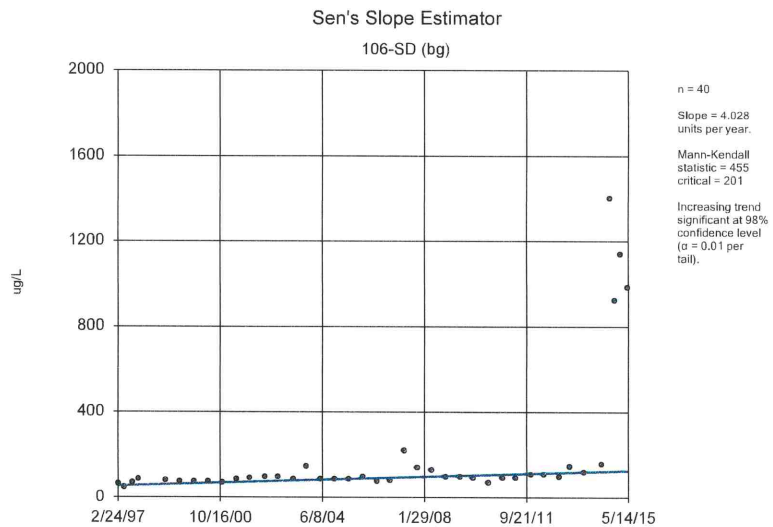

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Bridgeton LF Client: RSI Data: BRIDGETON

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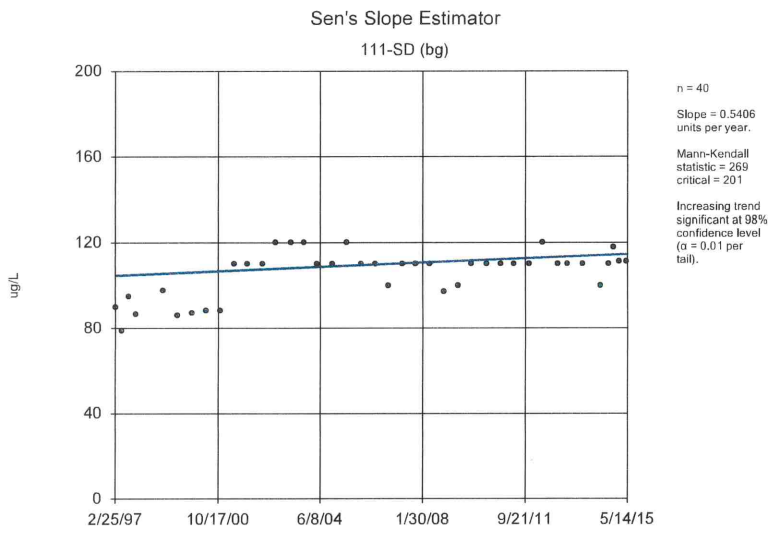

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Bridgeton LF Client: RSI Data: BRIDGETON

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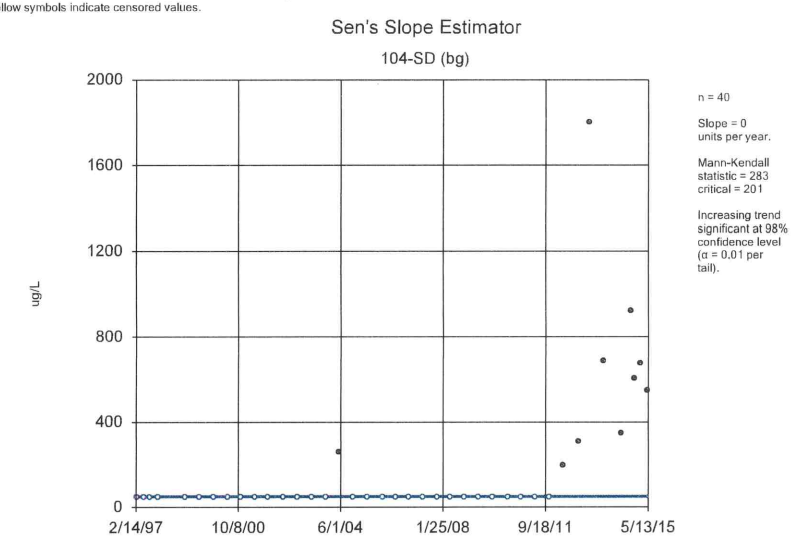

Constituent: Boron Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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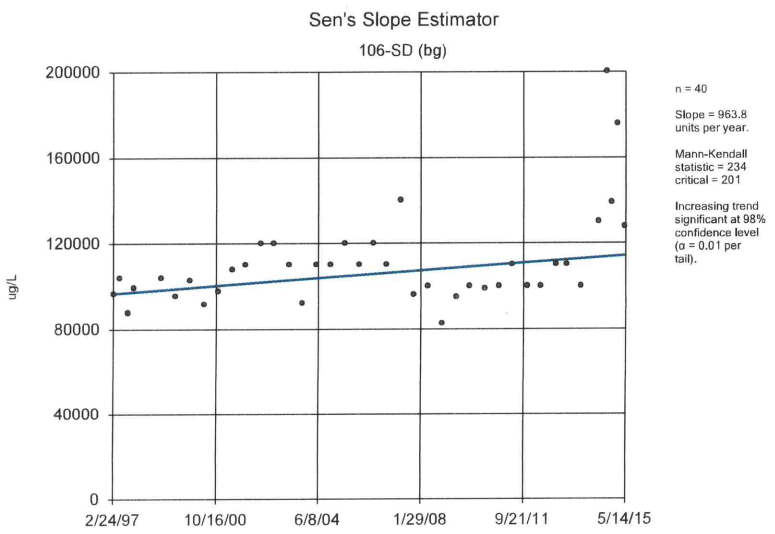

Constituent: Calcium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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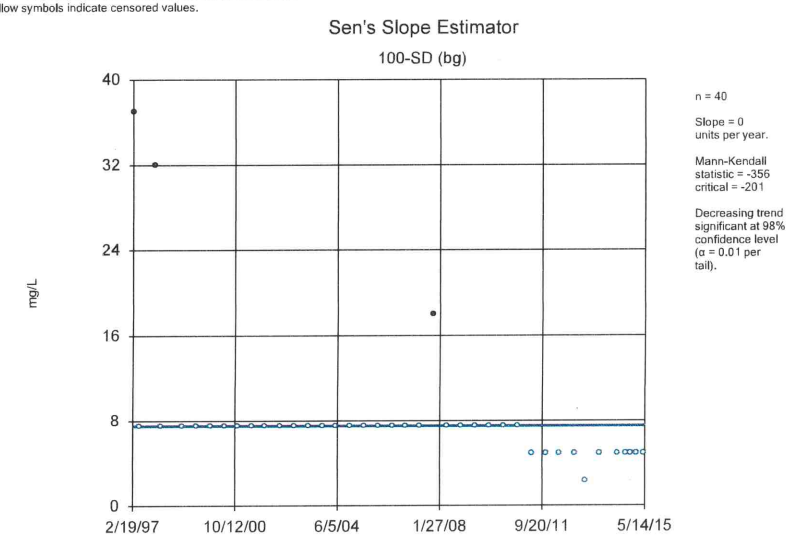

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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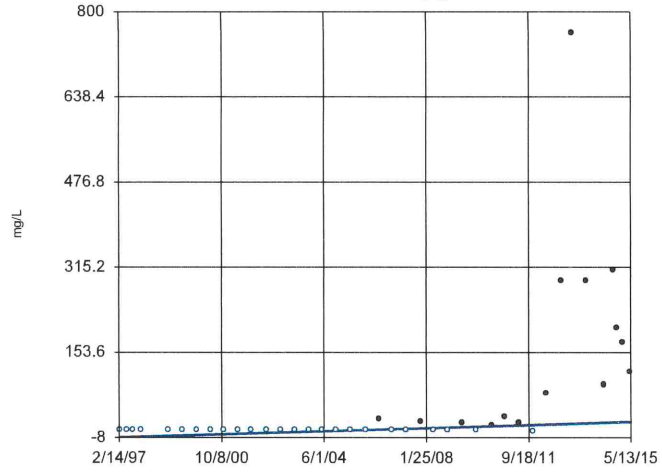
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 1.603 units per year.

Mann-Kendall statistic = 366 critical = 201

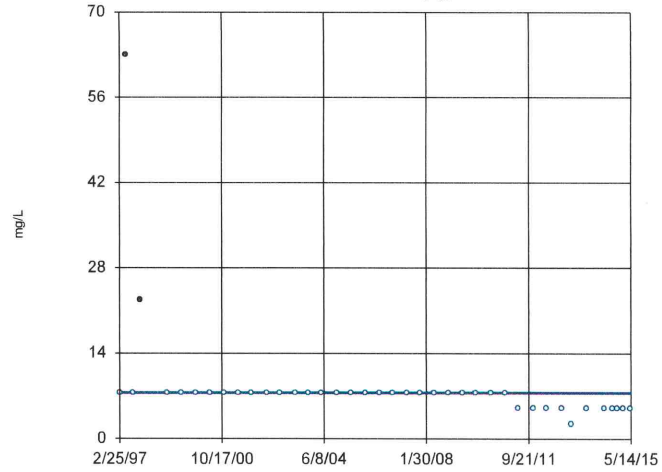
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -366 critical = -201

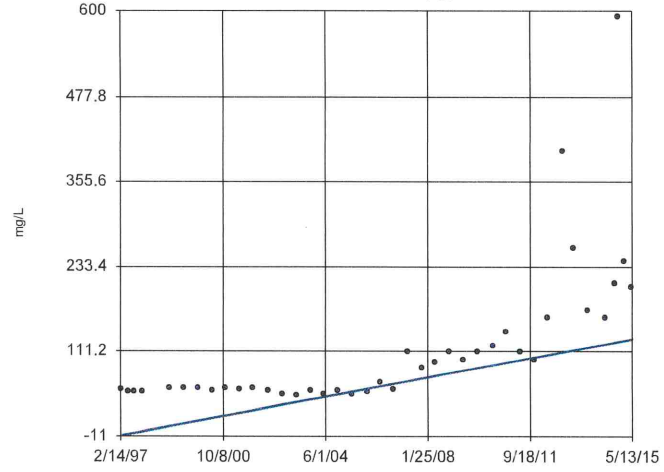
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 7.593 units per year.

Mann-Kendall statistic = 494 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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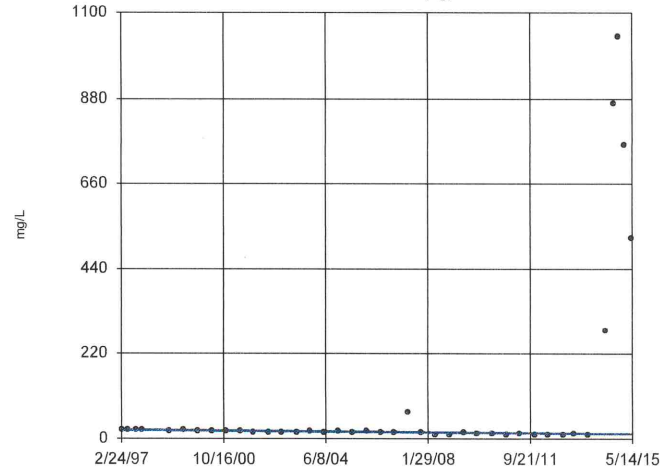
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -0.5238 units per year.

Mann-Kendall statistic = -243 critical = -201

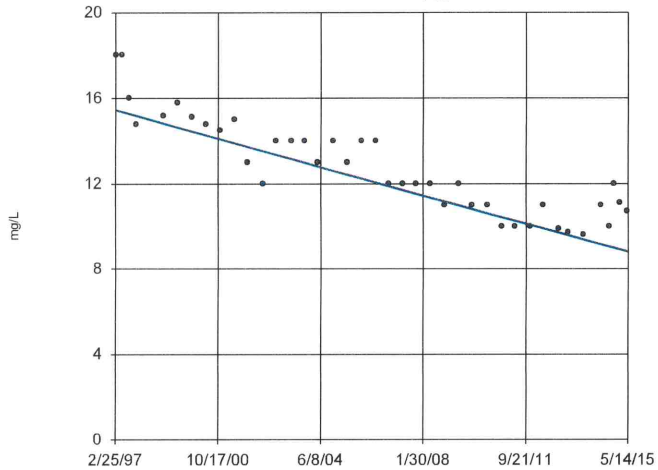
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -0.3646 units per year.

Mann-Kendall statistic = -583 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

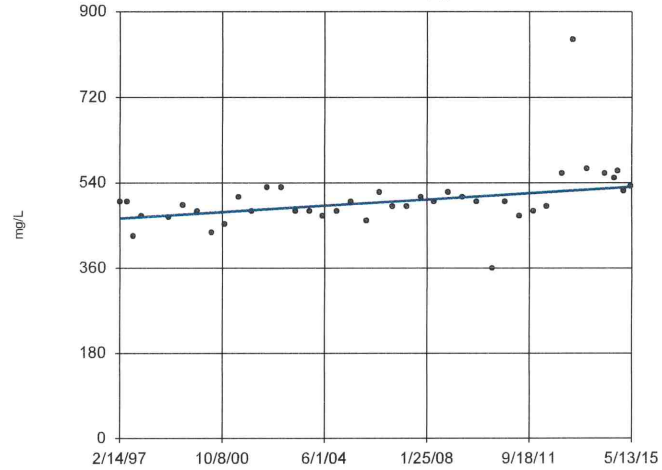
Constituent: Chloride Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 3.617 units per year.

Mann-Kendall statistic = 289 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

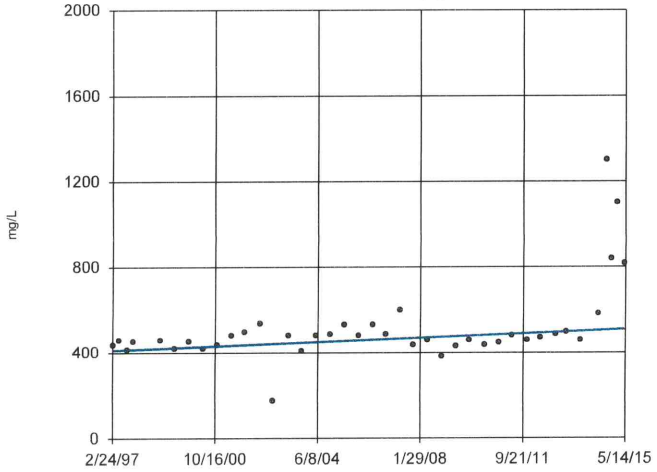
Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 5.378 units per year.

Mann-Kendall statistic = 273 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

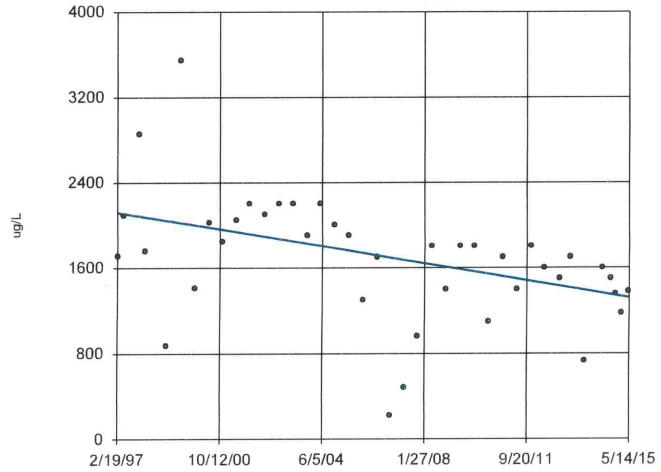
Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -43.81 units per year.

Mann-Kendall statistic = -299 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

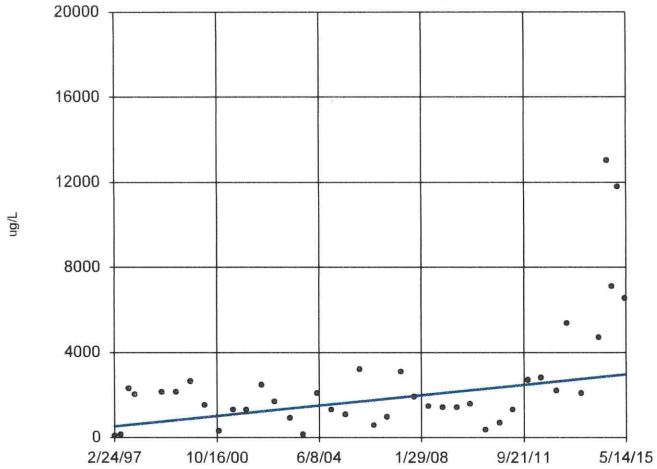
Constituent: Iron Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 133.3 units per year.

Mann-Kendall statistic = 256 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

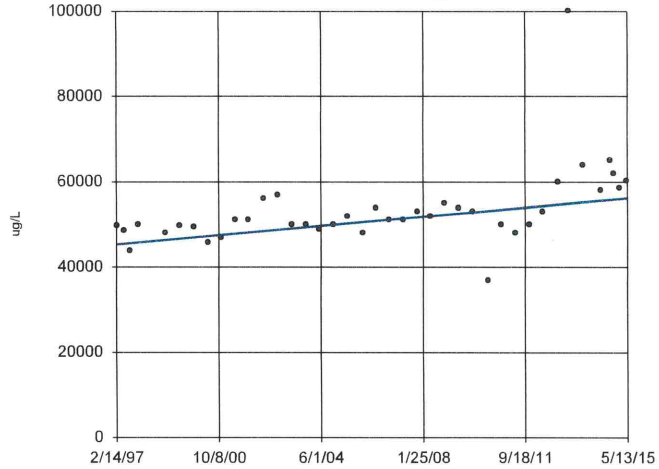
Constituent: Iron Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 595.7 units per year.

Mann-Kendall statistic = 376 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

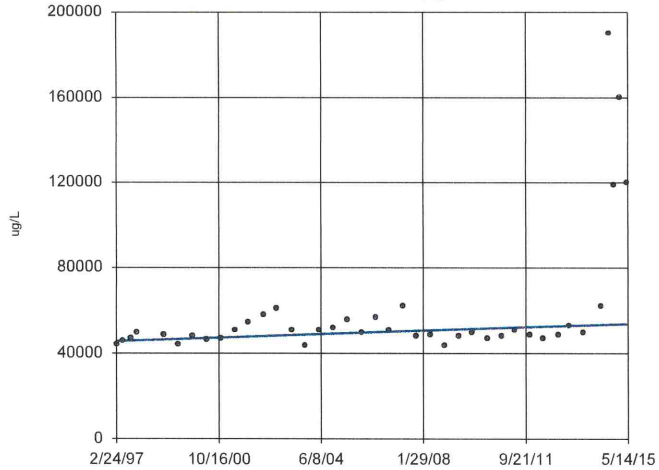
Constituent: Magnesium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 446.9 units per year.

Mann-Kendall statistic = 249 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

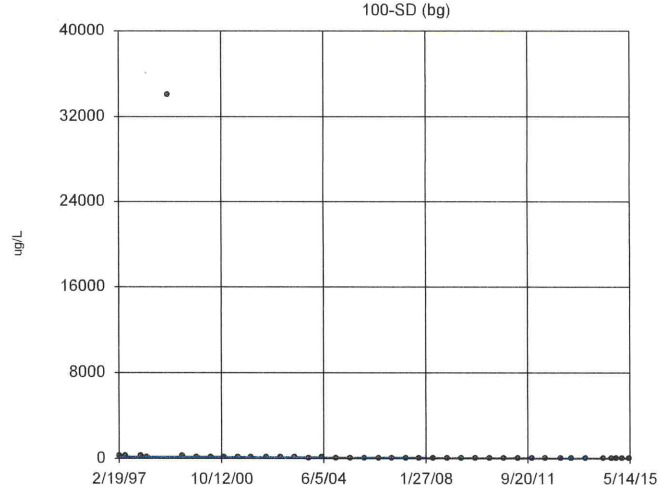
Constituent: Magnesium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -6.669 units per year.

Mann-Kendall statistic = -667 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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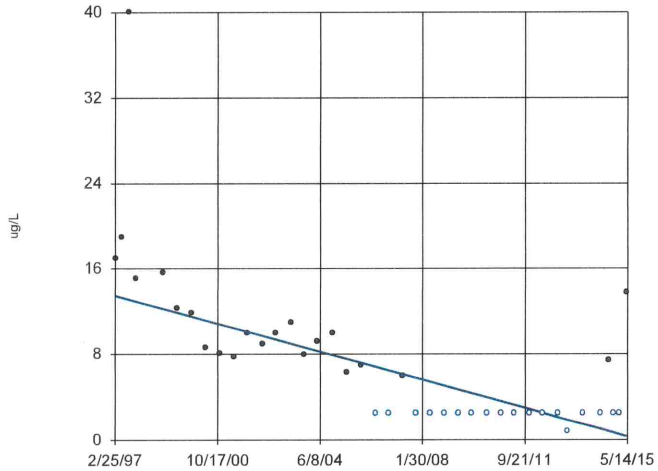
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -0.7201 units per year.

Mann-Kendall statistic = -457
critical = -201

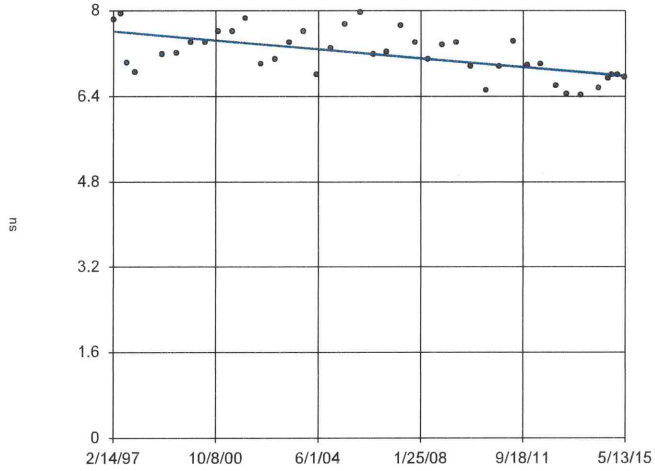
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = -0.04514 units per year.

Mann-Kendall statistic = -318
critical = -201

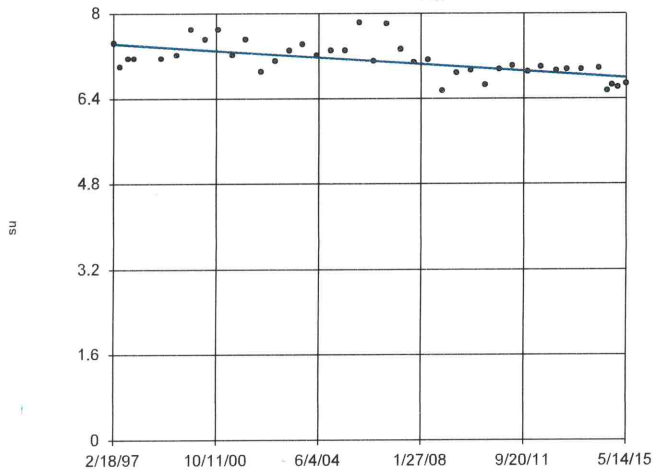
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -0.03461 units per year.

Mann-Kendall statistic = -354
critical = -201

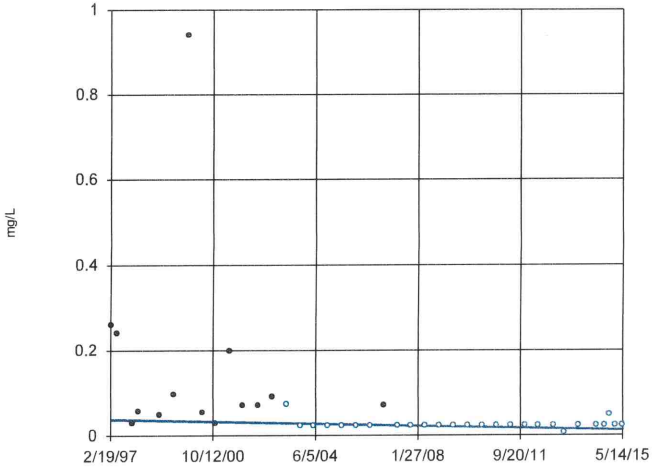
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -0.001393 units per year.

Mann-Kendall statistic = -354
critical = -201

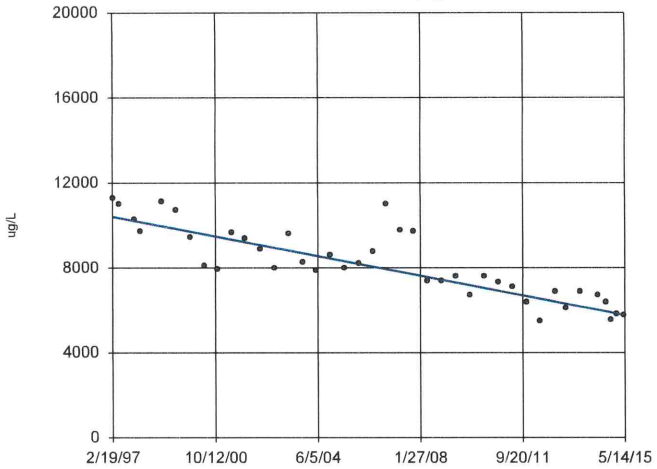
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -253.5 units per year.

Mann-Kendall statistic = -546 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

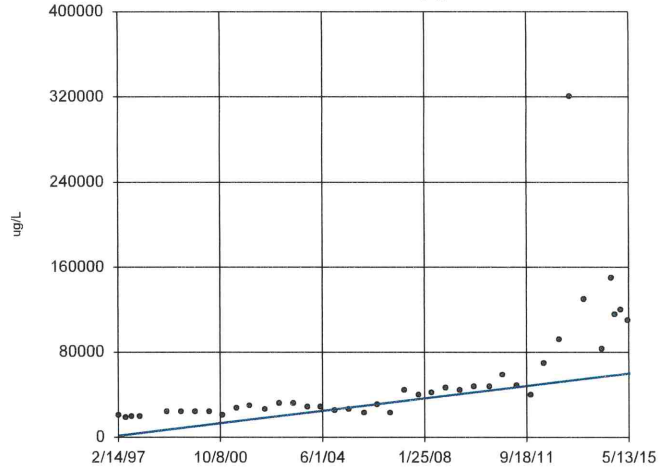
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 3202 units per year.

Mann-Kendall statistic = 597 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

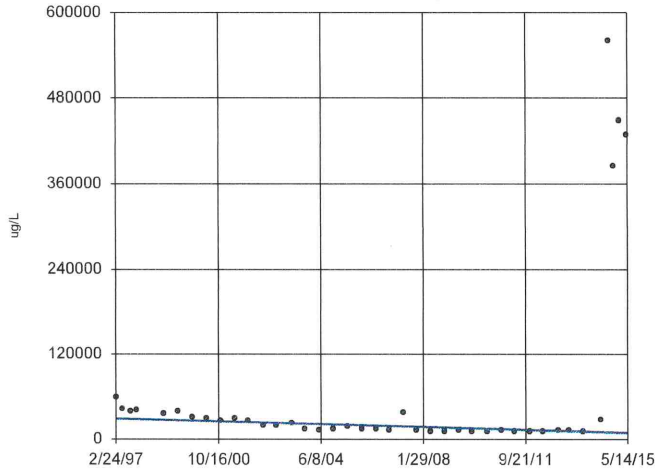
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -1074 units per year.

Mann-Kendall statistic = -298 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

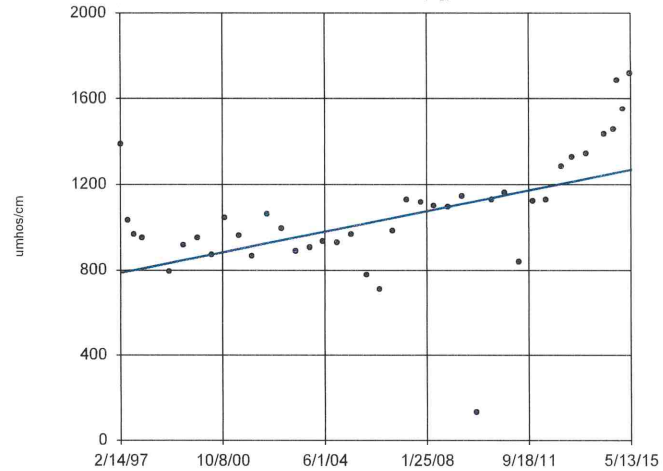
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 26.36 units per year.

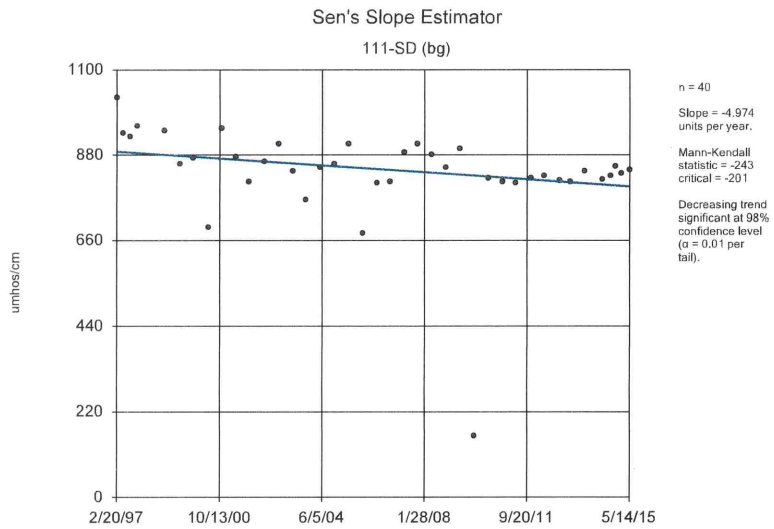
Mann-Kendall statistic = 365 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:20 PM

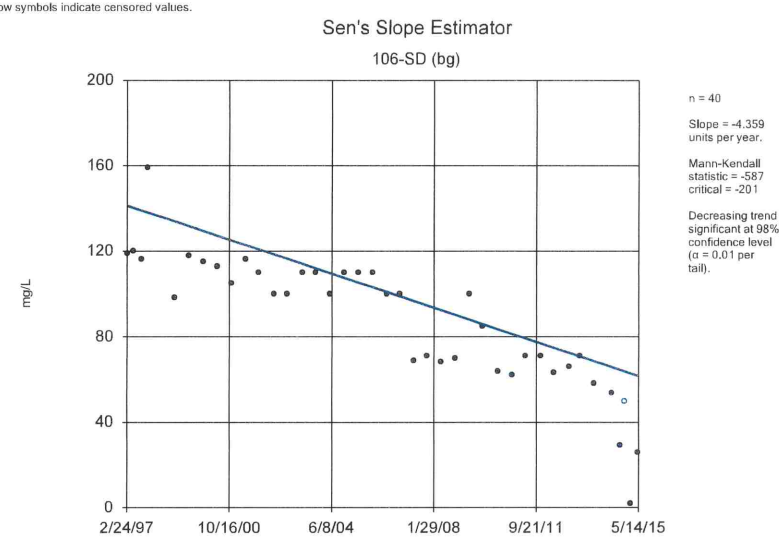
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG



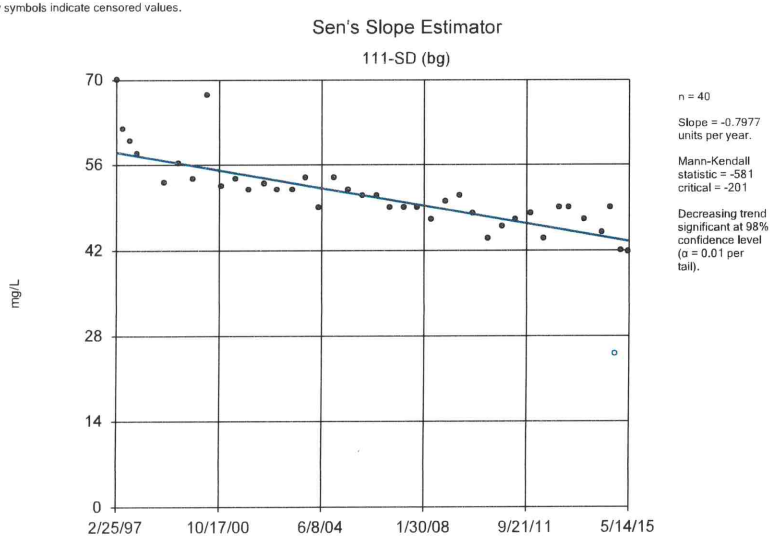
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.



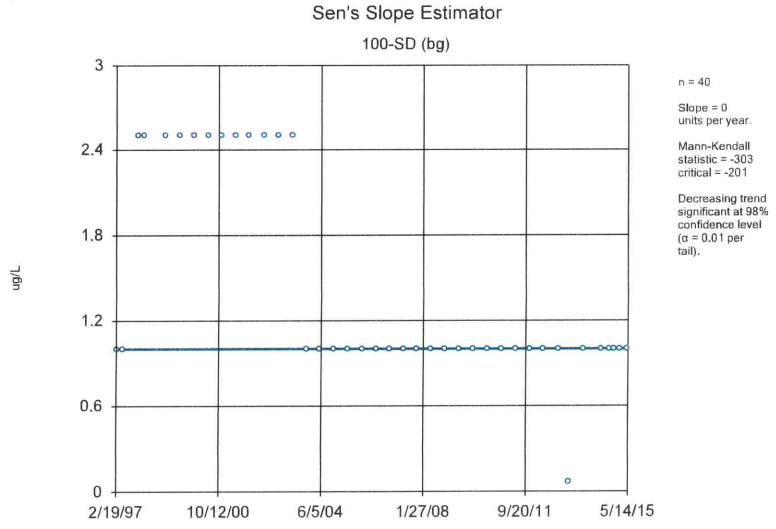
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.



Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

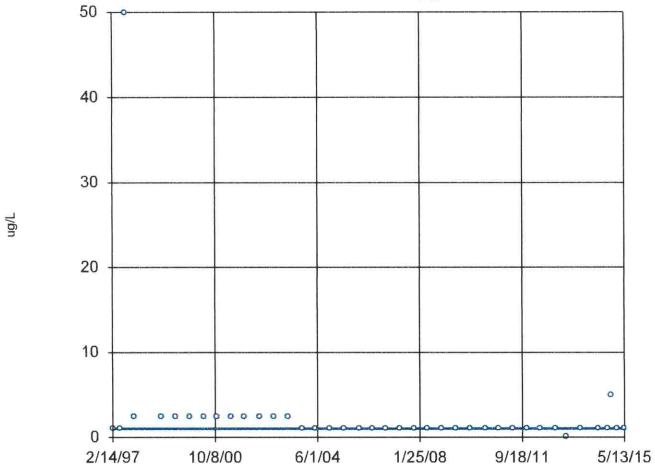


Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -270
critical = -201

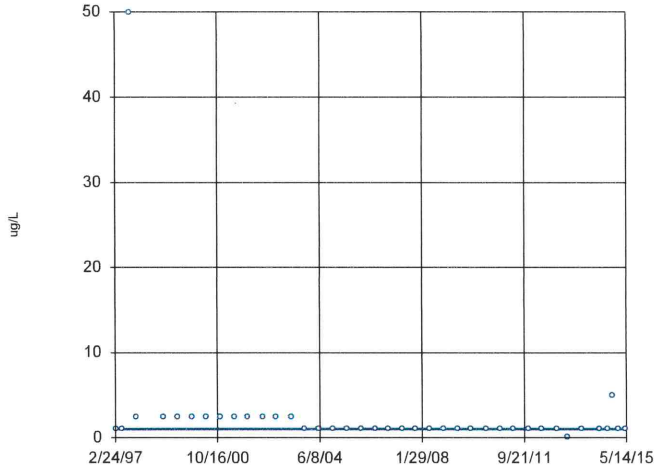
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -270
critical = -201

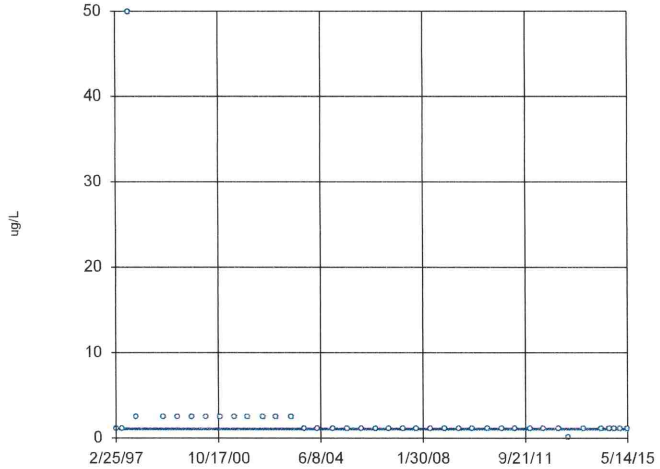
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -314
critical = -201

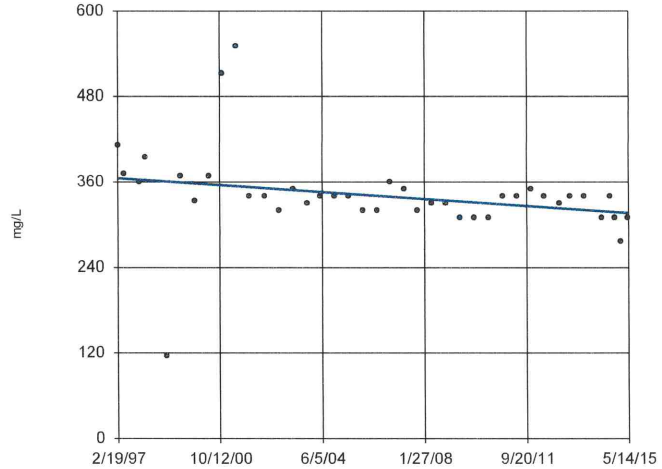
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -2.689
units per year.

Mann-Kendall
statistic = -301
critical = -201

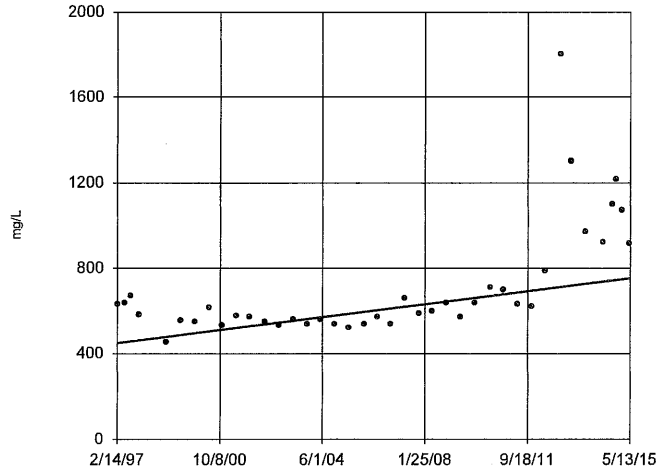
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 16.66 units per year.

Mann-Kendall statistic = 360 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

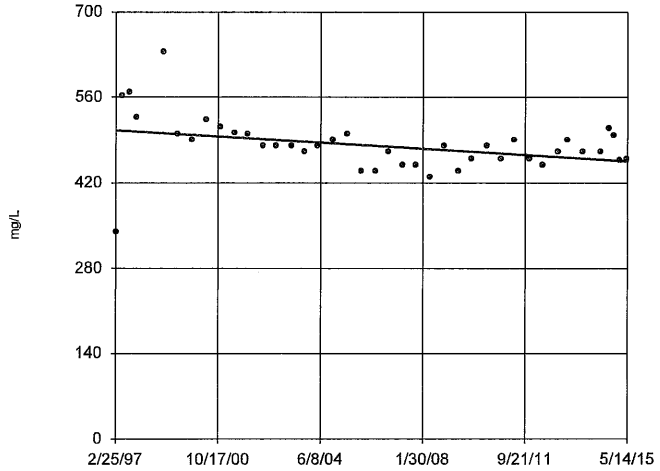
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -2.784 units per year.

Mann-Kendall statistic = -253 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM

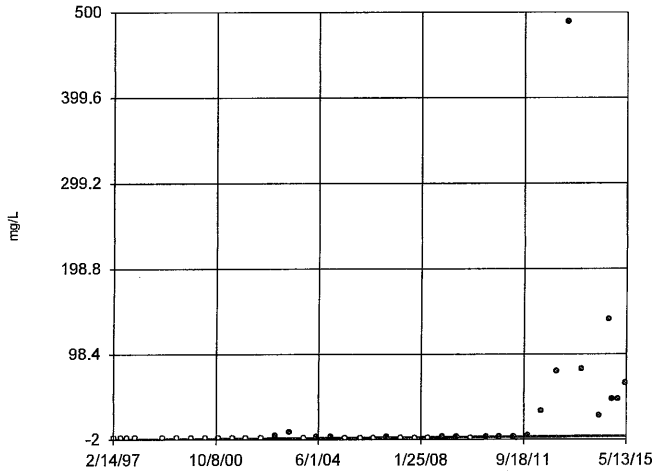
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 0.2006 units per year.

Mann-Kendall statistic = 433 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM

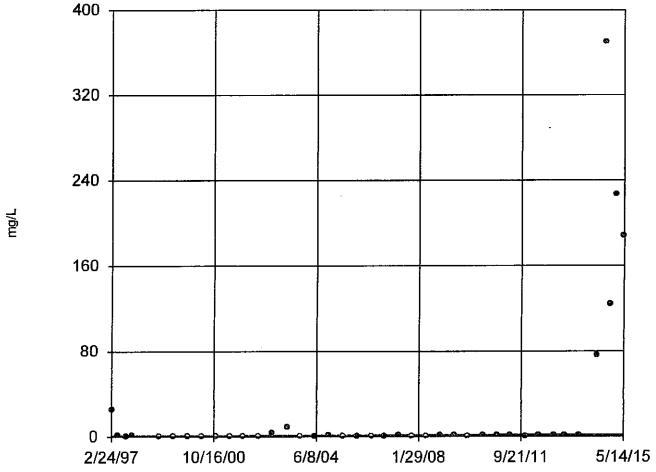
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 0.07738 units per year.

Mann-Kendall statistic = 270 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

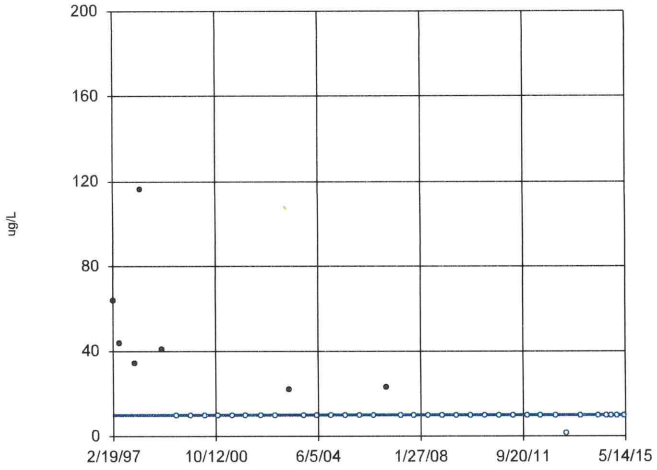
Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -218
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Zinc Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

INTRA-WELL PREDICTION LIMITS

Background data were evaluated for increasing statistical trends (or either increasing or decreasing trends for field pH). In those cases where the background data were determined to exhibit a statistical trend, typically the most recent background data were excluded until the data no longer exhibited a statistical trend. For each of the constituent-well pairs listed below, the specified modified background data period was utilized in the determination of the intra-well prediction limit.

Salem Formation Zone

- Ammonia as N at PZ-106-SD (2/97 through 11/10)
- Barium (Total) at PZ-104-SD (2/97 through 5/10)
- Barium (Total) at PZ-106-SD (2/97 through 11/01)
- Barium (Total) at PZ-111-SD (2/97 through 5/02)
- Calcium (Total) at PZ-106-SD (2/97 through 11/14)
- Chemical oxygen demand at PZ-104-SD (2/97 through 5/14)
- Chloride at PZ-104-SD (2/97 through 5/09)
- Hardness (Total) at PZ-104-SD (2/97 through 10/13)
- Hardness (Total) at PZ-106-SD (2/97 through 9/14)
- Iron (Total) at PZ-106-SD (2/97 through 9/14)
- Magnesium (Total) at PZ-104-SD (2/97 through 5/12)
- Magnesium (Total) at PZ-106-SD (2/97 through 11/14)
- pH (Field) at PZ-104-SD (2/97 through 4/13)
- pH (Field) at PZ-106-SD (2/97 through 11/11)
- Sodium (Total) at PZ-104-SD (2/97 through 5/01)
- Specific conductance (Field) at PZ-104-SD (2/97 through 4/13)
- Total dissolved solids at PZ-104-SD (2/97 through 11/12)
- Total organic carbon at PZ-104-SD (2/97 through 5/12)
- Total organic carbon at PZ-106-SD (2/97 through 9/14)

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 1:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Ammonia as N (mg/L)	100-SD	0.63	n/a	2/22/2018	0.25	No	37	0.4359	0.07903	0	None	No	0.0001937	Param Intra 1 of 2
Ammonia as N (mg/L)	104-SD	66	n/a	2/26/2018	55.1	No	40	n/a	n/a	32.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Ammonia as N (mg/L)	**106-SD**	**1.4**	**n/a**	**2/21/2018**	**20.1**	**Yes**	**29**	**n/a**	**n/a**	**55.17**	**n/a**	**n/a**	**0.002152**	**NP Intra (NDs) 1 of 2**
Ammonia as N (mg/L)	111-SD	0.35	n/a	2/20/2018	0.05ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	100-SD	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SD	5.0	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	106-SD	5.0	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	111-SD	5.0	n/a	2/20/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	100-SD	15	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	104-SD	27	n/a	2/26/2018	18.7	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	106-SD	12	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	77.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	111-SD	5.3	n/a	2/20/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	100-SD	340	n/a	2/22/2018	312	No	40	7.4e9	2.2e9	0	None	x^4	0.0001937	Param Intra 1 of 2
Barium Total (ug/L)	**104-SD**	**230**	**n/a**	**2/26/2018**	**795**	**Yes**	**28**	**5.011**	**0.17**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Barium Total (ug/L)	**106-SD**	**100**	**n/a**	**2/21/2018**	**304**	**Yes**	**11**	**465937**	**199834**	**0**	**None**	**x^3**	**0.0001937**	**Param Intra 1 of 2**
Barium Total (ug/L)	111-SD	130	n/a	2/20/2018	106	No	12	4.538	0.1113	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Beryllium Total (ug/L)	100-SD	2.2	n/a	2/22/2018	1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	104-SD	2.0	n/a	2/26/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	106-SD	2.0	n/a	2/21/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	111-SD	2.0	n/a	2/20/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	100-SD	100	n/a	2/22/2018	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	104-SD	1800	n/a	2/26/2018	1300	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	106-SD	2900	n/a	2/21/2018	441	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	111-SD	100	n/a	2/20/2018	50ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	100-SD	2.5	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	104-SD	0.20	n/a	2/26/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SD	2.5	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	111-SD	0.20	n/a	2/20/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	100-SD	88000	n/a	2/22/2018	73000	No	40	11.25	0.05606	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Calcium Total (ug/L)	104-SD	170000	n/a	2/26/2018	100000	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Calcium Total (ug/L)	106-SD	140000	n/a	2/21/2018	106000	No	37	11.57	0.1154	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Calcium Total (ug/L)	111-SD	100000	n/a	2/20/2018	88400	No	38	7.5e14	1.2e14	0	None	x^3	0.0001937	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SD	37	n/a	2/22/2018	5ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	104-SD	760	n/a	2/26/2018	252	No	36	n/a	n/a	69.44	n/a	n/a	0.00142	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SD	3400	n/a	2/21/2018	54.1	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	111-SD	63	n/a	2/20/2018	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chloride (mg/L)	100-SD	13	n/a	2/22/2018	1.7	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chloride (mg/L)	**104-SD**	**110**	**n/a**	**2/26/2018**	**303**	**Yes**	**26**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002637**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	106-SD	1000	n/a	2/21/2018	154	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chloride (mg/L)	111-SD	19	n/a	2/20/2018	10.6	No	40	2.531	0.173	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Chromium Total (ug/L)	100-SD	13	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	**104-SD**	**13**	**n/a**	**2/26/2018**	**16.8**	**Yes**	**40**	**n/a**	**n/a**	**82.5**	**n/a**	**n/a**	**0.001152**	**NP Intra (NDs) 1 of 2**
Chromium Total (ug/L)	106-SD	42	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	111-SD	22	n/a	2/20/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	100-SD	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	104-SD	10	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	106-SD	12	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	111-SD	5.0	n/a	2/20/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	100-SD	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	104-SD	13	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 1:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper Total (ug/L)	106-SD	47	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	111-SD	10	n/a	2/20/2018	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	100-SD	2.4	n/a	2/22/2018	2.1	No	26	4.154	0.6542	0	None	x^2	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	104-SD	1	n/a	2/26/2018	1	No	22	0.6967	0.1384	0	None	x^2	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	106-SD	1.5	n/a	2/21/2018	1.3	No	23	1.552	0.68	0	None	x^3	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	111-SD	2.4	n/a	2/20/2018	2	No	25	18.37	5.15	0	None	x^4	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	100-SD	380	n/a	2/22/2018	322	No	39	5.824	0.04847	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	104-SD	540	n/a	2/26/2018	520	No	31	5.8e10	1.1e10	0	None	x^4	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	106-SD	590	n/a	2/21/2018	531	No	35	6.15	0.09469	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	111-SD	500	n/a	2/20/2018	434	No	38	7.638	0.1242	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	100-SD	2900	n/a	2/22/2018	401	No	39	1623	514.4	0	None	No	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	104-SD	31000	n/a	2/26/2018	12800	No	40	7.096	1.332	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	106-SD	8600	n/a	2/21/2018	679	No	37	11.73	3.576	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	111-SD	8200	n/a	2/20/2018	840	No	40	6.026	1.228	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Lead Total (ug/L)	100-SD	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	104-SD	5.0	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	106-SD	25	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	111-SD	5.0	n/a	2/20/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	100-SD	40000	n/a	2/22/2018	33900	No	40	10.48	0.04911	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Magnesium Total (ug/L)	**104-SD**	**58000**	**n/a**	**2/26/2018**	**65600**	**Yes**	**31**	**36.99**	**0.6987**	**0**	**None**	**x^(1/3)**	**0.0001937**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	**106-SD**	**63000**	**n/a**	**2/21/2018**	**64700**	**Yes**	**36**	**10.82**	**0.09234**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	111-SD	60000	n/a	2/20/2018	51700	No	39	10.89	0.0489	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	100-SD	34000	n/a	2/22/2018	38.5	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Manganese Total (ug/L)	104-SD	200	n/a	2/26/2018	128	No	40	4.643	0.2679	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	106-SD	560	n/a	2/21/2018	23.4	No	40	5.302	1.222	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	111-SD	40	n/a	2/20/2018	9.9	No	40	n/a	n/a	45	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Mercury Total (ug/L)	100-SD	0.20	n/a	2/22/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	104-SD	0.20	n/a	2/26/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	106-SD	0.20	n/a	2/21/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	111-SD	0.20	n/a	2/20/2018	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	100-SD	10	n/a	2/22/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	**104-SD**	**60**	**n/a**	**2/26/2018**	**85.4**	**Yes**	**40**	**n/a**	**n/a**	**75**	**n/a**	**n/a**	**0.001152**	**NP Intra (NDs) 1 of 2**
Nickel Total (ug/L)	106-SD	60	n/a	2/21/2018	5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	111-SD	10	n/a	2/20/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	100-SD	0.10	n/a	2/22/2018	0.05ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	104-SD	1.3	n/a	2/26/2018	0.05ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	106-SD	0.30	n/a	2/21/2018	0.05ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	111-SD	5.0	n/a	2/20/2018	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
pH [Field] (su)	100-SD	8.2	6.6	2/22/2018	7.32	No	39	1.993	0.04354	0	None	ln(x)	0.00009683	Param Intra 1 of 2
pH [Field] (su)	104-SD	8.2	6.2	2/26/2018	6.77	No	34	53	5.7	0	None	x^2	0.00009683	Param Intra 1 of 2
pH [Field] (su)	106-SD	8	6.5	2/21/2018	7.02	No	31	1.973	0.04295	0	None	ln(x)	0.00009683	Param Intra 1 of 2
pH [Field] (su)	111-SD	8.1	6.4	2/20/2018	7.22	No	39	1.976	0.04679	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SD	0.94	n/a	2/22/2018	0.025ND	No	40	n/a	n/a	65	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	104-SD	0.29	n/a	2/26/2018	0.19	No	40	-3.189	0.7998	47.5	Kaplan-Meier	ln(x)	0.0001937	Param Intra 1 of 2
Phosphorus Total (mg/L)	106-SD	0.23	n/a	2/21/2018	0.054	No	40	0.09779	0.05309	15	None	No	0.0001937	Param Intra 1 of 2
Phosphorus Total (mg/L)	111-SD	0.37	n/a	2/20/2018	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	100-SD	5.0	n/a	2/22/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	104-SD	5.0	n/a	2/26/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	106-SD	50	n/a	2/21/2018	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	111-SD	5.0	n/a	2/20/2018	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 4/13/2018, 1:07 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Silver Total (ug/L)	100-SD	5.0	n/a	2/22/2018	2.5ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	104-SD	5.0	n/a	2/26/2018	2.5ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	106-SD	5.0	n/a	2/21/2018	2.5ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	111-SD	5.0	n/a	2/20/2018	2.5ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	100-SD	13000	n/a	2/22/2018	6730	No	40	20.08	1.372	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Sodium Total (ug/L)	**104-SD**	**34000**	**n/a**	**2/26/2018**	**207000**	**Yes**	**10**	**10**	**0.1276**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Sodium Total (ug/L)	**106-SD**	**85000**	**n/a**	**2/21/2018**	**90400**	**Yes**	**10**	**10.5**	**0.2441**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Sodium Total (ug/L)	111-SD	25000	n/a	2/20/2018	18100	No	38	9.94	0.08286	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SD	710	n/a	2/22/2018	627	No	39	2.5e8	4.1e7	0	None	x^3	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	**104-SD**	**1500**	**n/a**	**2/26/2018**	**2670**	**Yes**	**33**	**6.911**	**0.1526**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	**106-SD**	**1200**	**n/a**	**2/21/2018**	**1569**	**Yes**	**36**	**6.803**	**0.1014**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	111-SD	1000	n/a	2/20/2018	842	No	39	731124	112677	0	None	x^2	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	100-SD	15	n/a	2/22/2018	10.4	No	40	2.323	0.1561	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	104-SD	100	n/a	2/26/2018	1.1	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sulfate (mg/L)	106-SD	160	n/a	2/21/2018	53.4	No	40	87.24	31.12	2.5	None	No	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	111-SD	67	n/a	2/20/2018	46.1	No	39	3.932	0.1116	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Thallium Total (ug/L)	100-SD	2.0	n/a	2/22/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	104-SD	2.0	n/a	2/26/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	106-SD	2.0	n/a	2/21/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	111-SD	2.0	n/a	2/20/2018	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SD	400	n/a	2/22/2018	325	No	37	5.819	0.07451	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**104-SD**	**780**	**n/a**	**2/26/2018**	**1140**	**Yes**	**32**	**6.38**	**0.11**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**106-SD**	**700**	**n/a**	**2/21/2018**	**809**	**Yes**	**36**	**538.1**	**65.86**	**0**	**None**	**No**	**0.0001937**	**Param Intra 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	111-SD	560	n/a	2/20/2018	449	No	38	6.175	0.06301	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SD	29	n/a	2/22/2018	1.4	No	40	n/a	n/a	32.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	**104-SD**	**32**	**n/a**	**2/26/2018**	**84.2**	**Yes**	**32**	**n/a**	**n/a**	**62.5**	**n/a**	**n/a**	**0.001789**	**NP Intra (NDs) 1 of 2**
Total Organic Carbon [TOC] (mg/L)	106-SD	370	n/a	2/21/2018	17.6	No	37	n/a	n/a	37.84	n/a	n/a	0.001353	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	111-SD	30	n/a	2/20/2018	1.4	No	40	n/a	n/a	42.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	100-SD	10	n/a	2/22/2018	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	104-SD	38	n/a	2/26/2018	12.4	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	106-SD	42	n/a	2/21/2018	5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	111-SD	33	n/a	2/20/2018	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	100-SD	120	n/a	2/22/2018	10ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	104-SD	96	n/a	2/26/2018	10ND	No	40	n/a	n/a	77.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	106-SD	77	n/a	2/21/2018	10ND	No	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	111-SD	100	n/a	2/20/2018	10ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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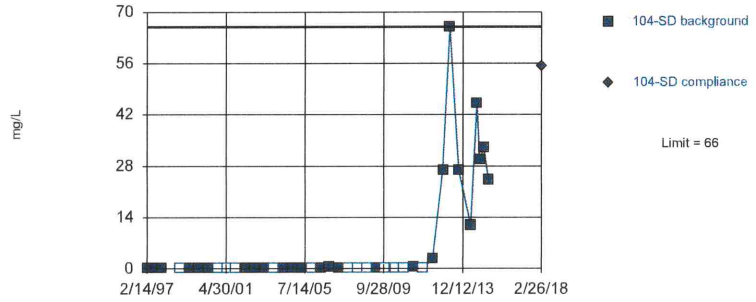
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Ammonia as N Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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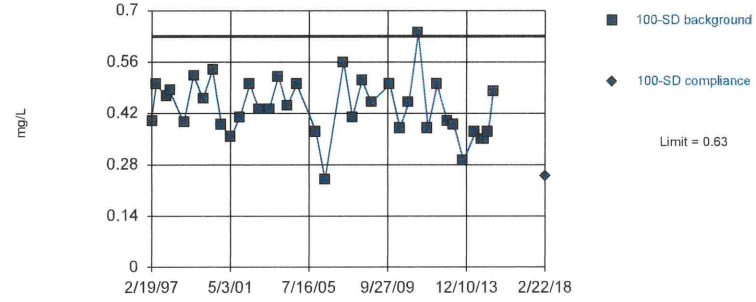
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.4359, Std. Dev.=0.07903, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9826, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Three background outliers were removed: <0.1 (5/24/2005); 0.13 (11/8/2006); 1.2 (5/8/2009).

Constituent: Ammonia as N Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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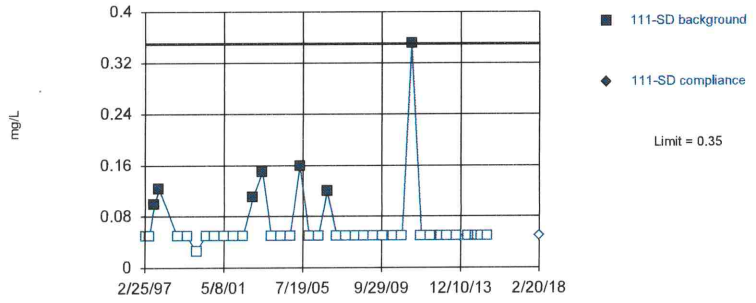
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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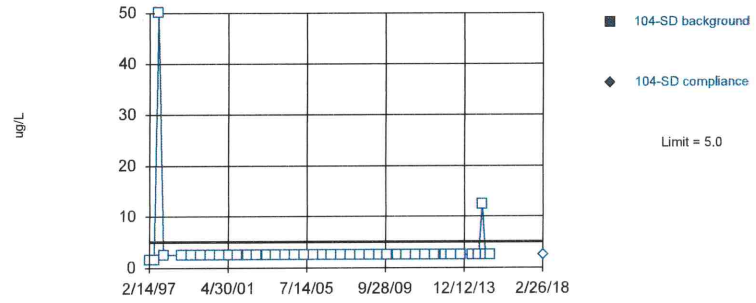
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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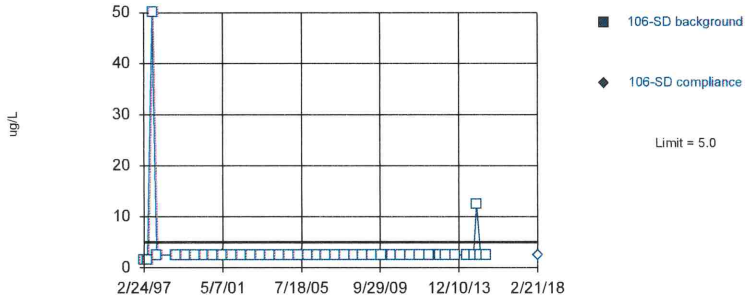
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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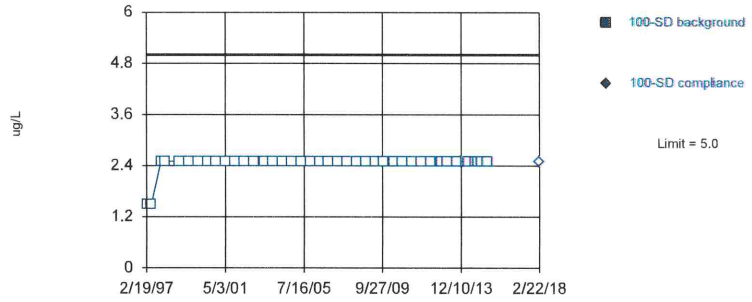
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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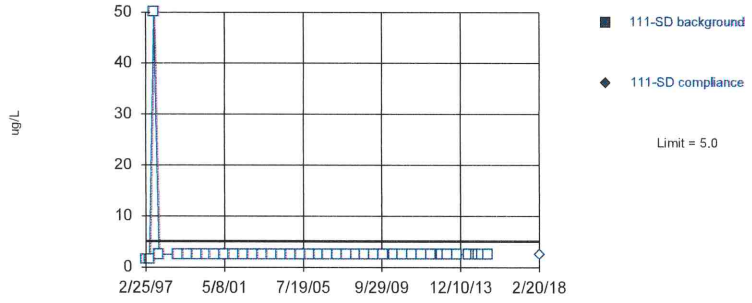
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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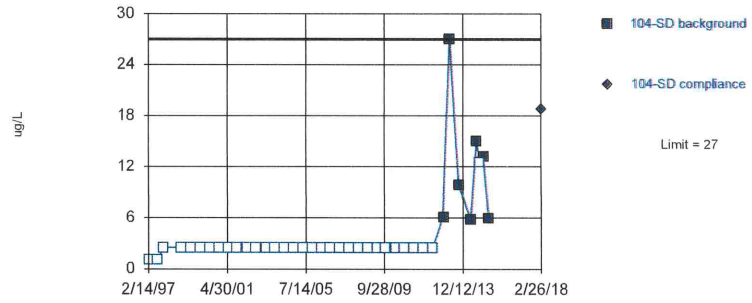
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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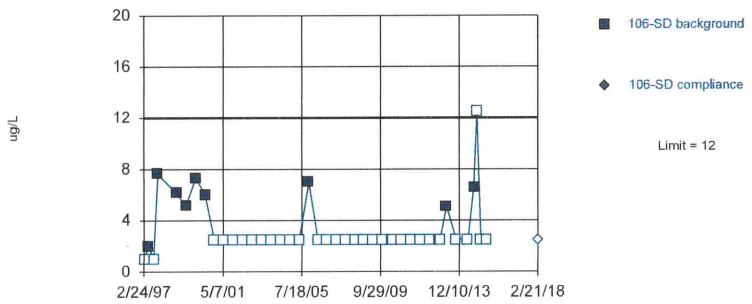
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 77.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Arsenic Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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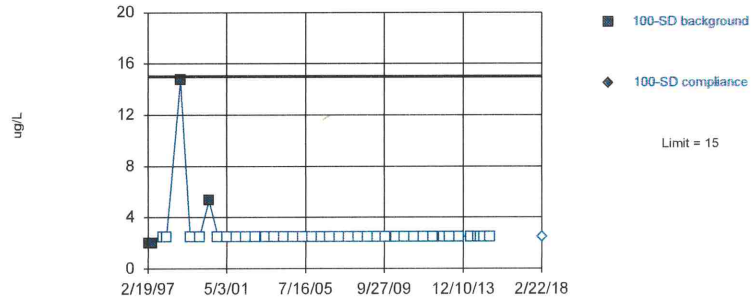
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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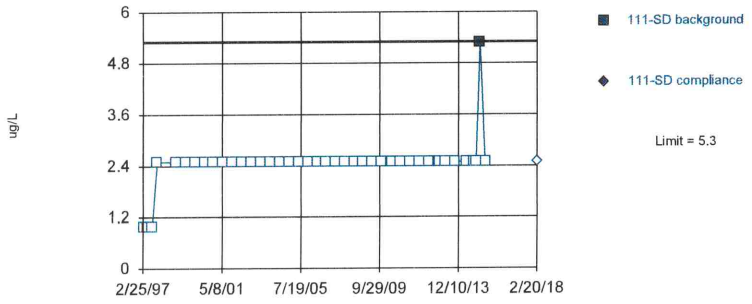
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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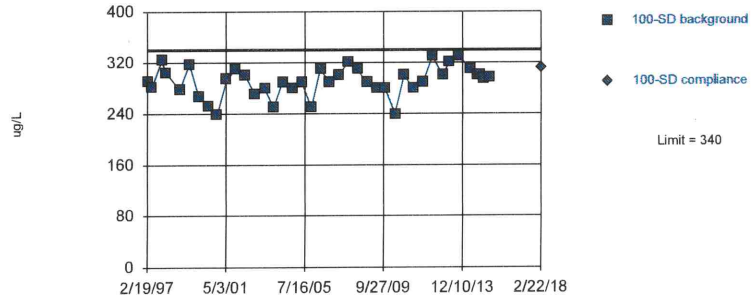
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=7.4e9, Std. Dev.=2.2e9, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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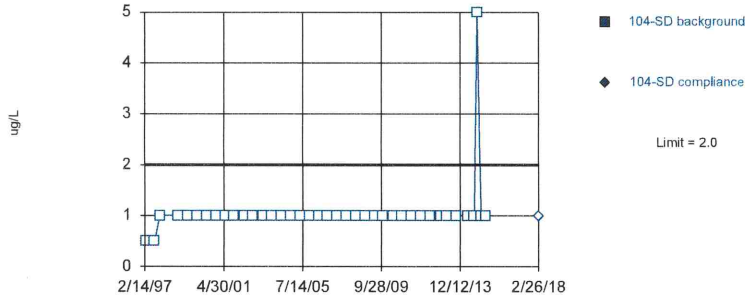
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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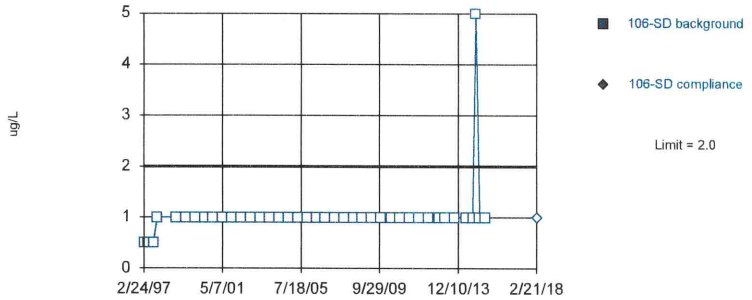
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 4/13/2018 12:42 PM

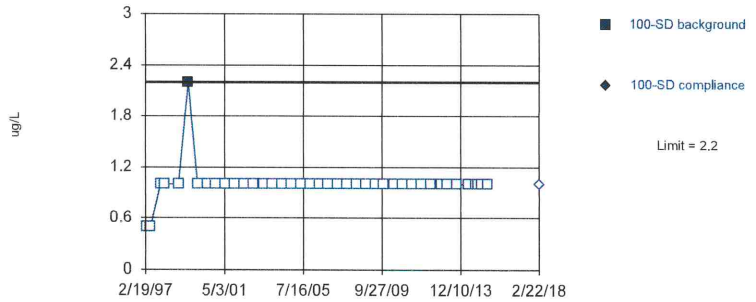
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 4/13/2018 12:42 PM

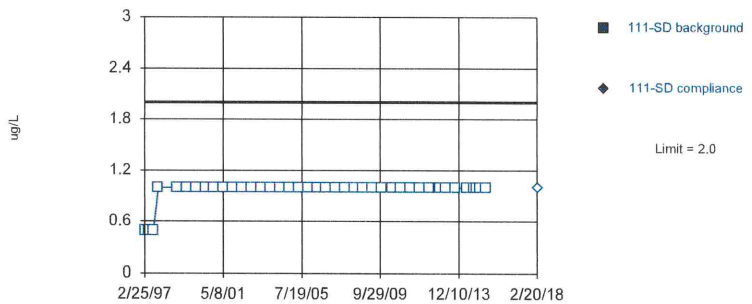
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 4/13/2018 12:42 PM

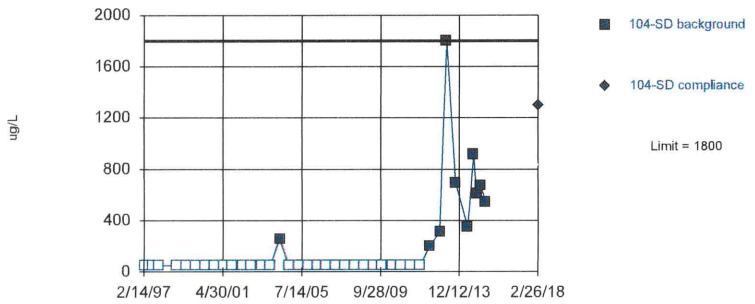
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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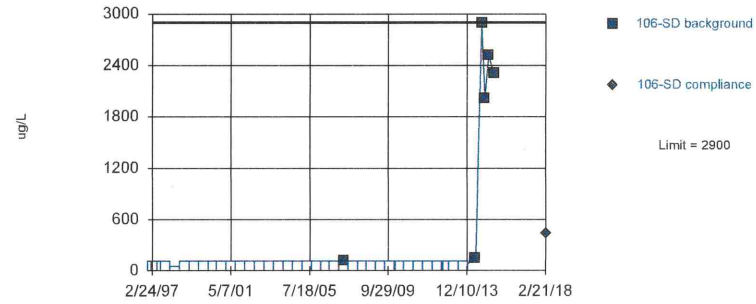
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 4/13/2018 12:42 PM

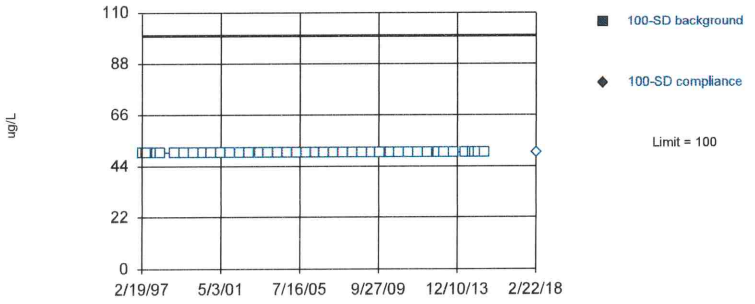
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Boron Total Analysis Run 4/13/2018 12:42 PM

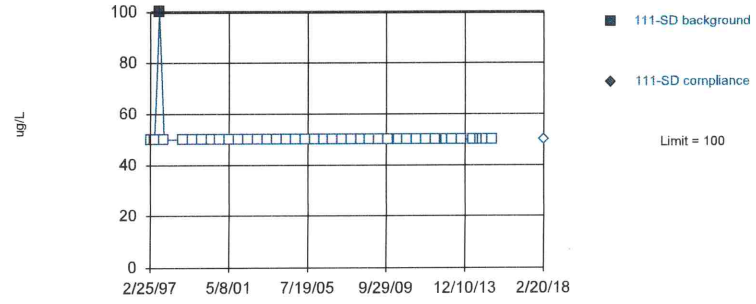
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 4/13/2018 12:42 PM

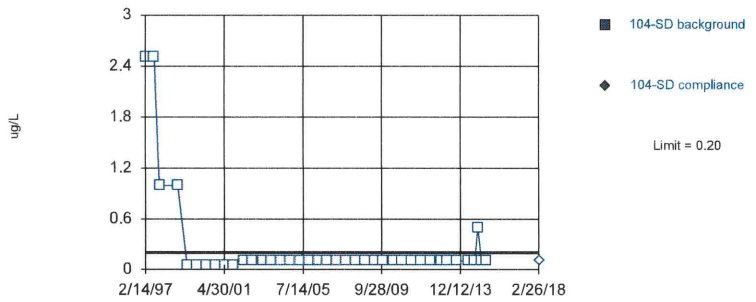
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Cadmium Total Analysis Run 4/13/2018 12:42 PM

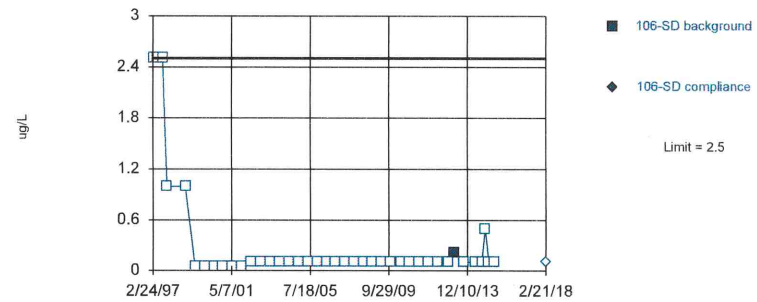
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Cadmium Total Analysis Run 4/13/2018 12:42 PM

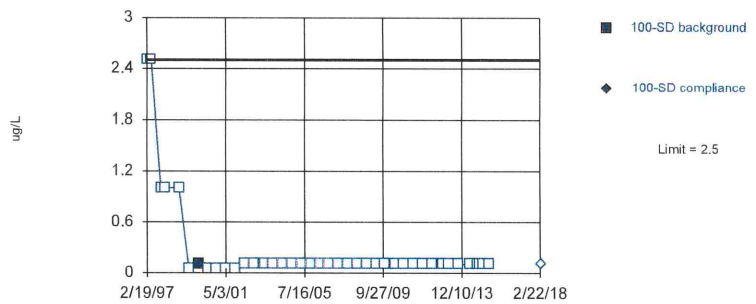
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 4/13/2018 12:42 PM

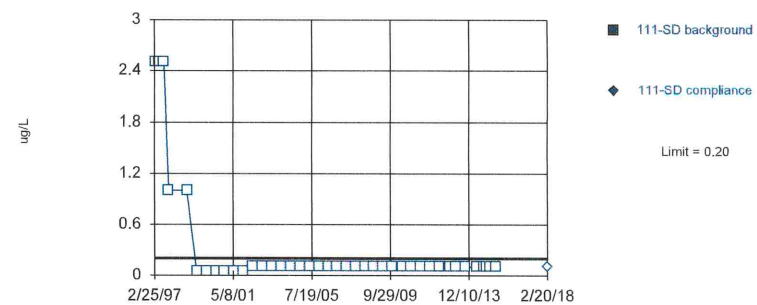
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Cadmium Total Analysis Run 4/13/2018 12:42 PM

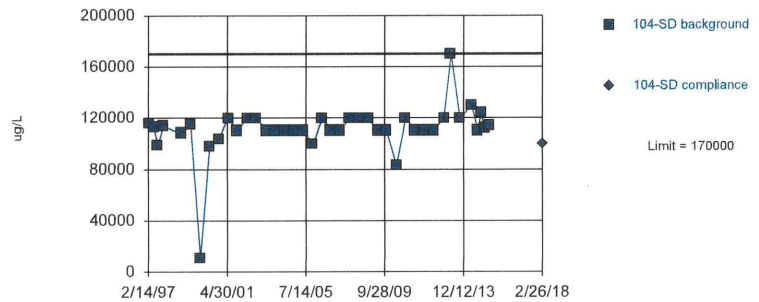
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Calcium Total Analysis Run 4/13/2018 12:42 PM

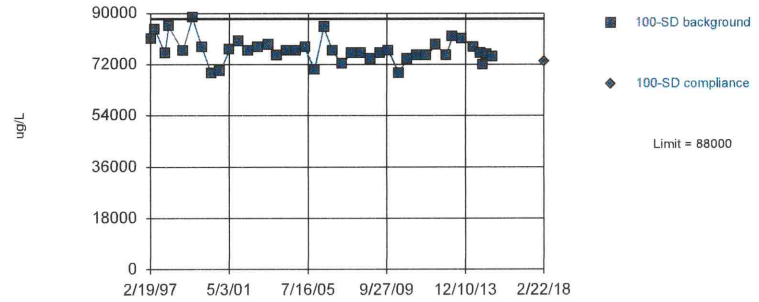
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.25, Std. Dev.=0.05606, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9571, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 4/13/2018 12:42 PM

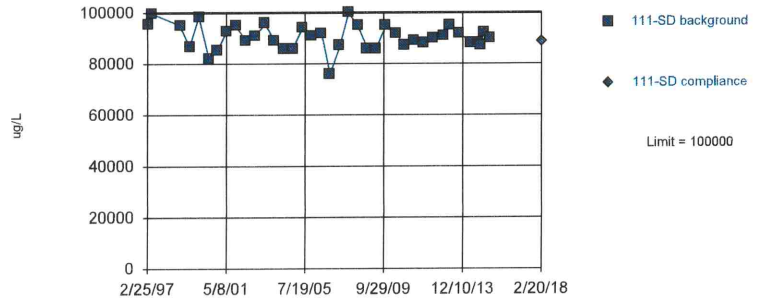
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=7.5e14, Std. Dev.=1.2e14, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9719, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 8590 (8/21/1997); 70400 (11/24/1997).

Constituent: Calcium Total Analysis Run 4/13/2018 12:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

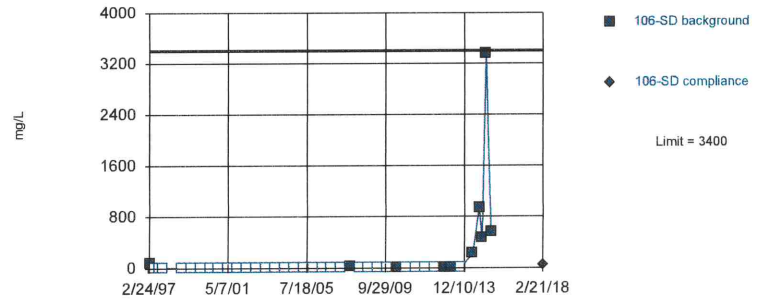
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 12:42 PM

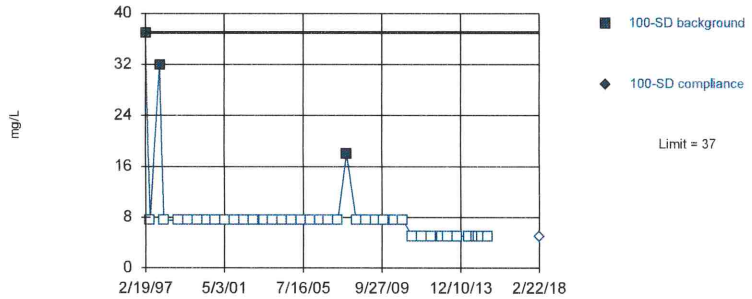
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 12:42 PM

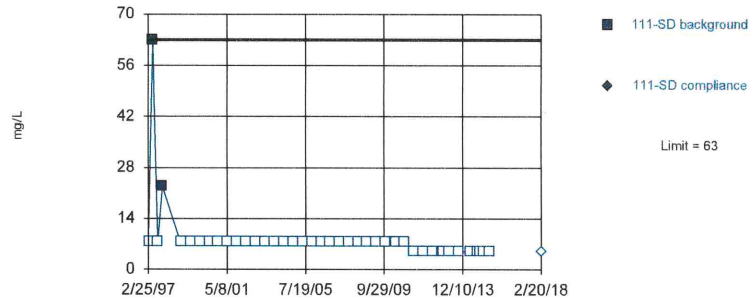
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 12:42 PM

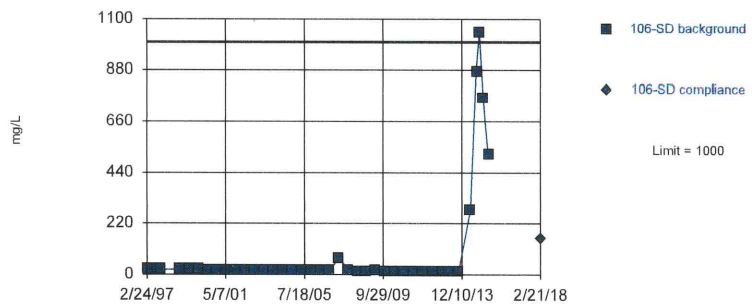
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chloride Analysis Run 4/13/2018 12:42 PM

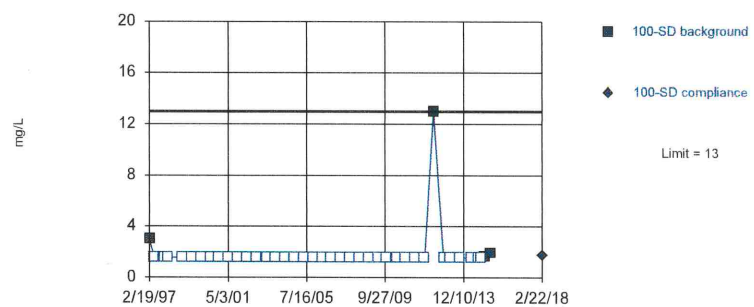
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 4/13/2018 12:43 PM

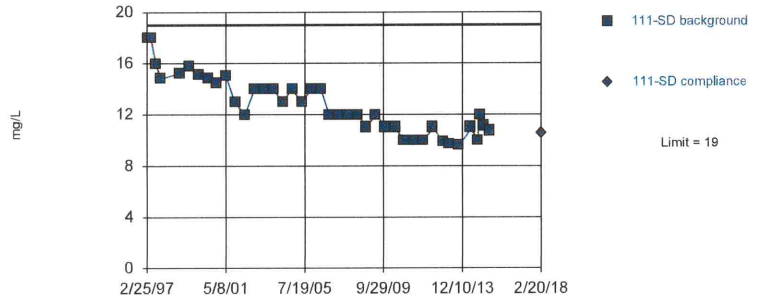
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.531, Std. Dev.=0.173, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 4/13/2018 12:43 PM

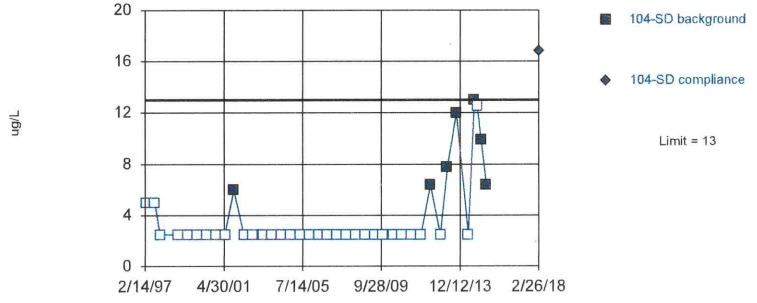
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chromium Total Analysis Run 4/13/2018 12:43 PM

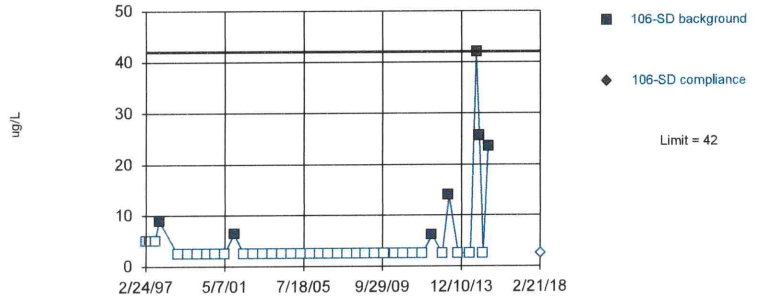
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 12:43 PM

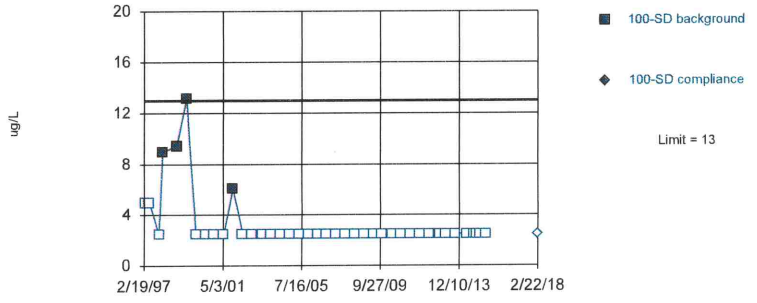
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 12:43 PM

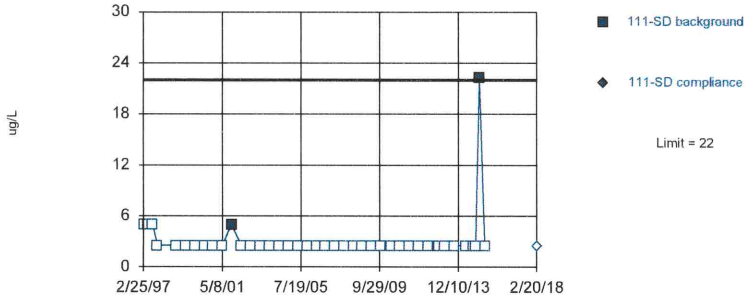
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 4/13/2018 12:43 PM

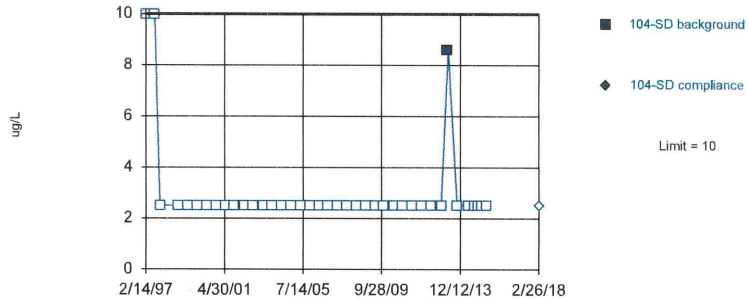
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 4/13/2018 12:43 PM

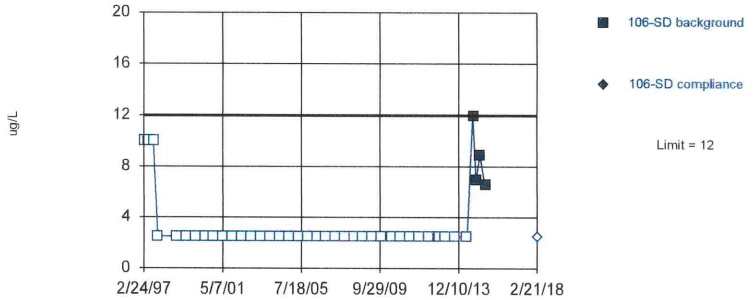
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Cobalt Total Analysis Run 4/13/2018 12:43 PM

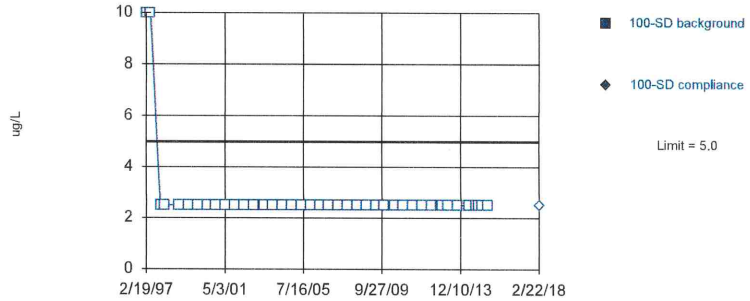
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 4/13/2018 12:43 PM

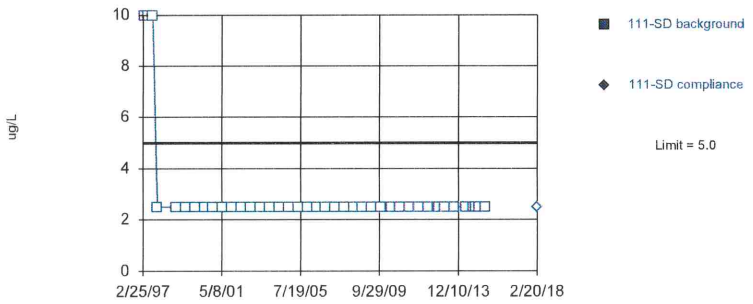
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 4/13/2018 12:43 PM

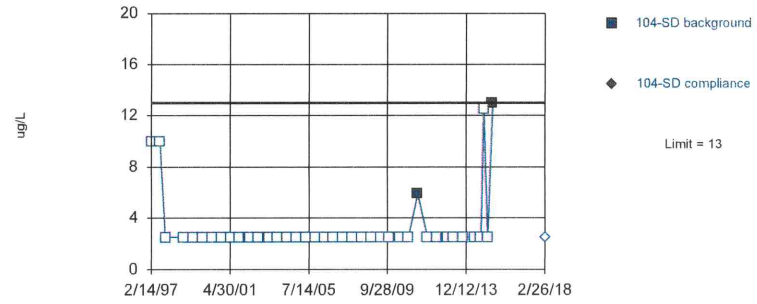
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Copper Total Analysis Run 4/13/2018 12:43 PM

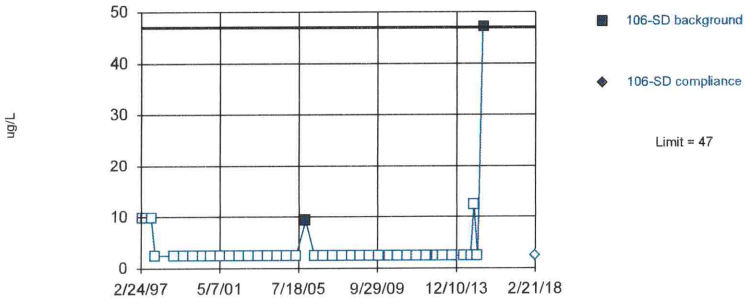
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 4/13/2018 12:43 PM

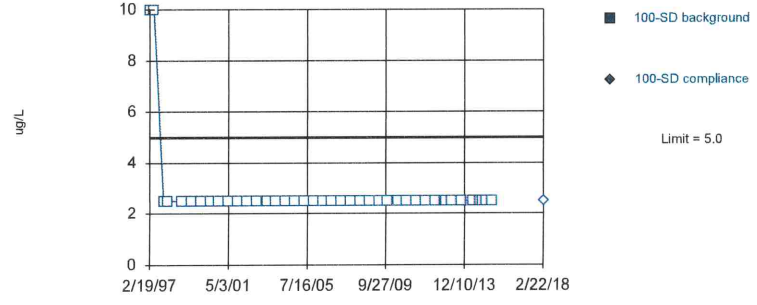
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 4/13/2018 12:43 PM

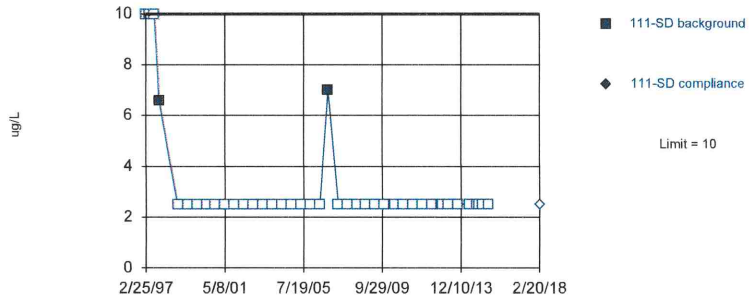
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal. so outlier results were invalidated.

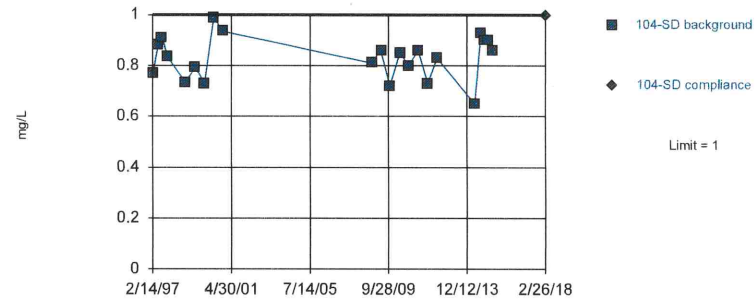
Constituent: Copper Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.6967, Std. Dev.=0.1384, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9836, critical = 0.878. Kappa = 2.66 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 1.26 (5/15/2001); <0.1 (11/27/2012); 0.21 (4/11/2013); <0.1 (10/7/2013).

Constituent: Fluoride Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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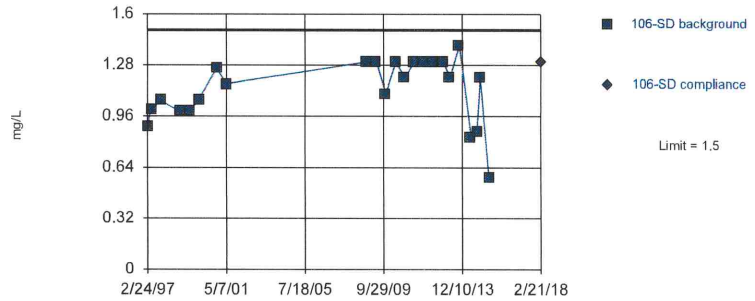
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.552, Std. Dev.=0.68, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9378, critical = 0.881. Kappa = 2.637 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Three background outliers were removed: <0.25 (8/28/1997); 2.24 (5/23/2000); 0.18 (2/4/2015).

Constituent: Fluoride Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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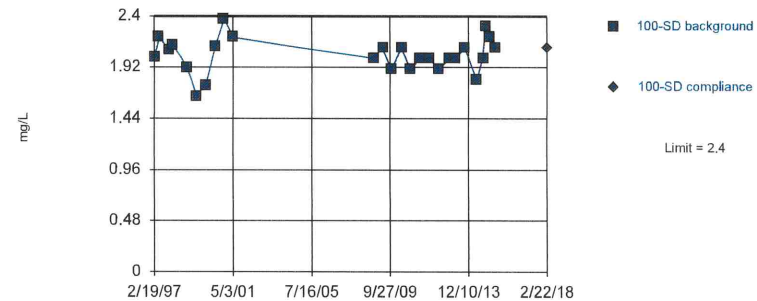
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.154, Std. Dev.=0.6542, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9765, critical = 0.891. Kappa = 2.575 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on x^4 transformation): Mean=18.37, Std. Dev.=5.15, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.888. Kappa = 2.59 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 1.2 (2/25/1997).

Constituent: Fluoride Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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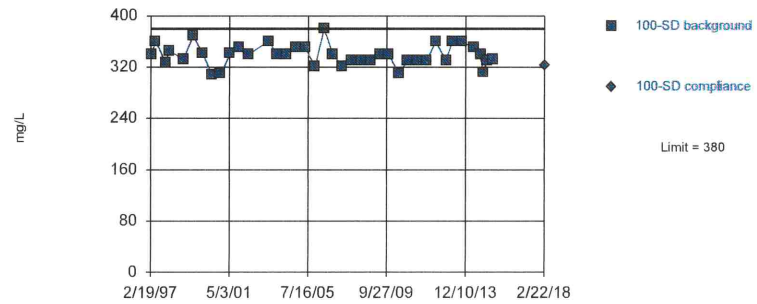
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.824, Std. Dev.=0.04847, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9622, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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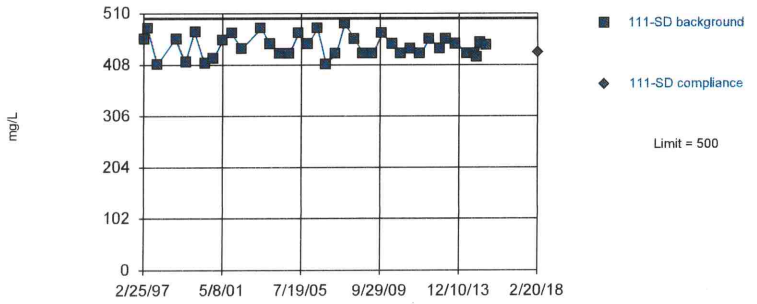
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=7.638, Std. Dev.=0.1242, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 37.1 (8/21/1997); 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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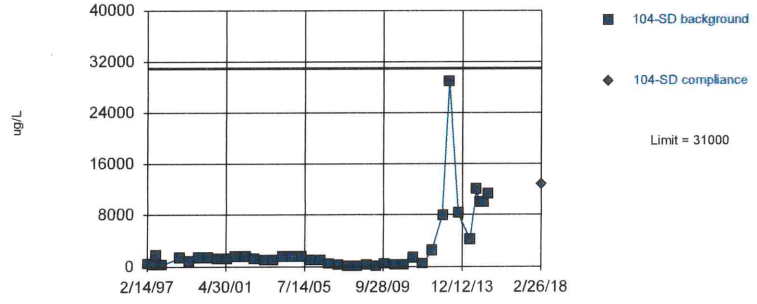
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.096, Std. Dev.=1.332, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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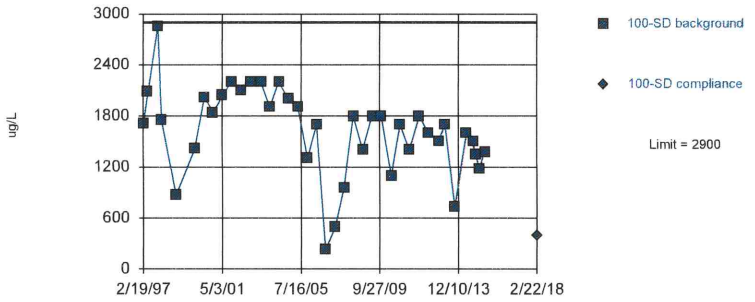
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1623, Std. Dev.=514.4, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9632, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 3550 (5/18/1999).

Constituent: Iron Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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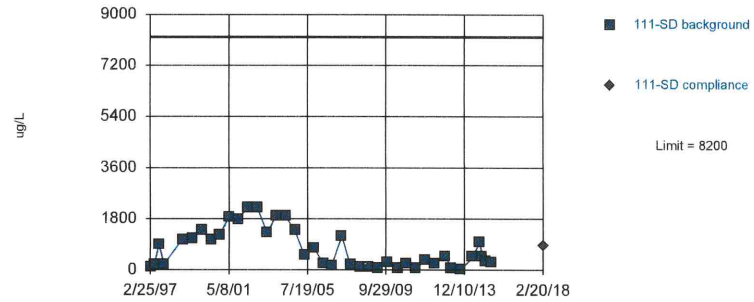
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.026, Std. Dev.=1.228, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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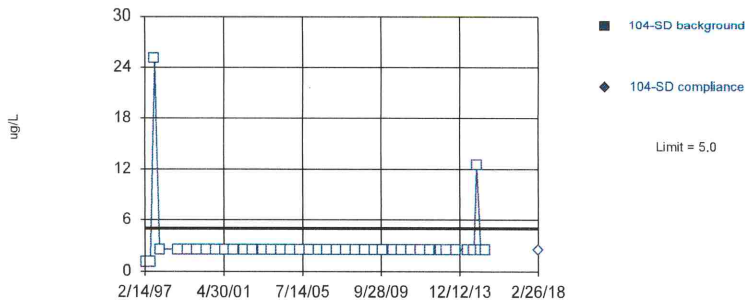
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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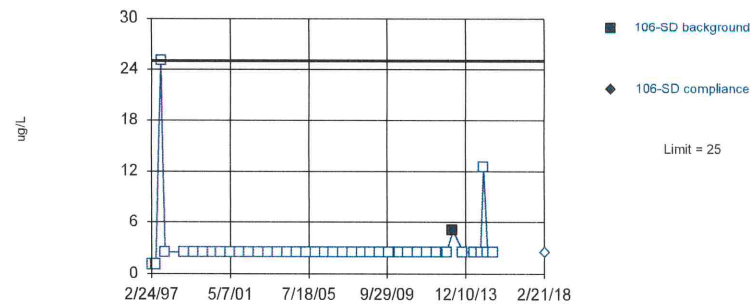
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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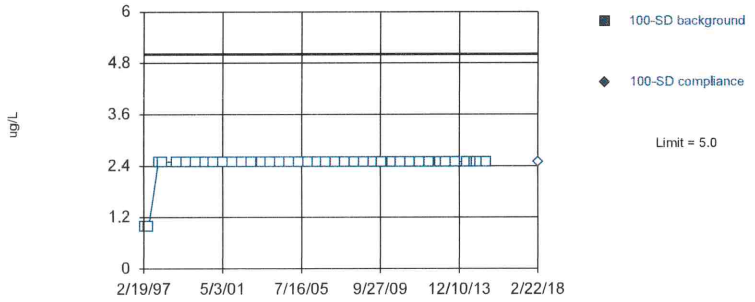
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 12:43 PM

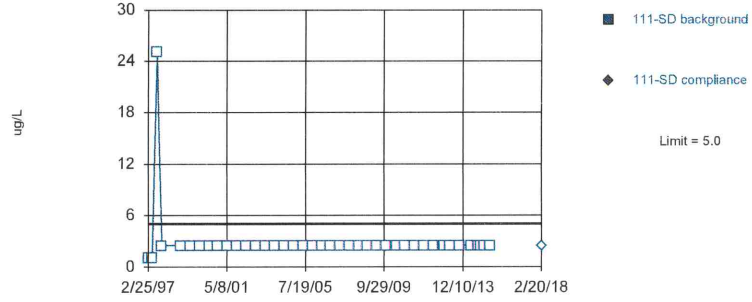
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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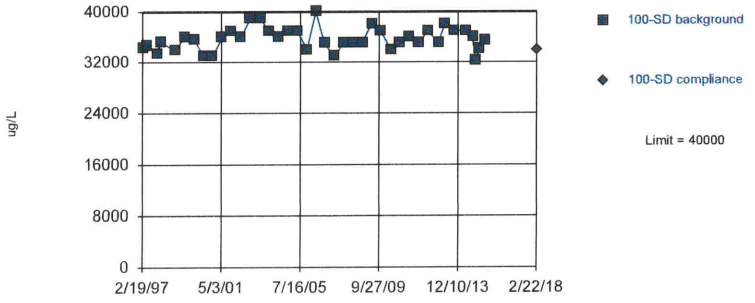
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.48, Std. Dev.=0.04911, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9731, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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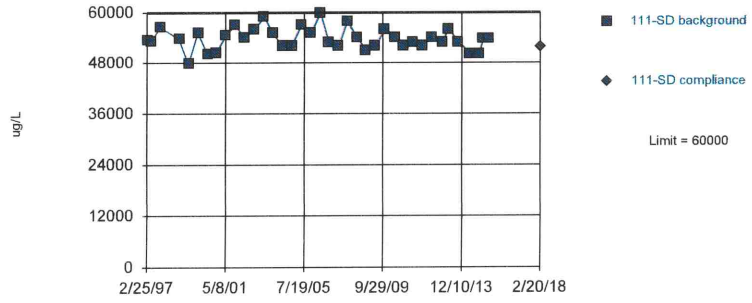
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.89, Std. Dev.=0.0489, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9842, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 3810 (8/21/1997).

Constituent: Magnesium Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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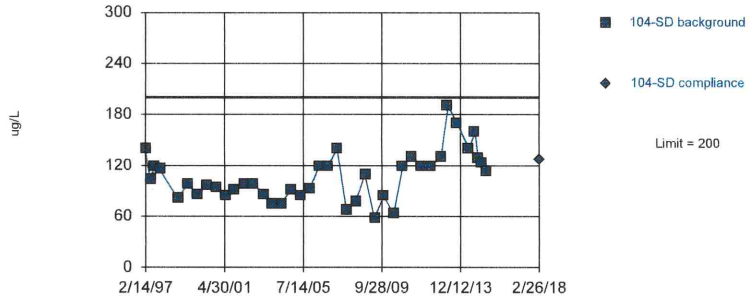
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.643, Std. Dev.=0.2679, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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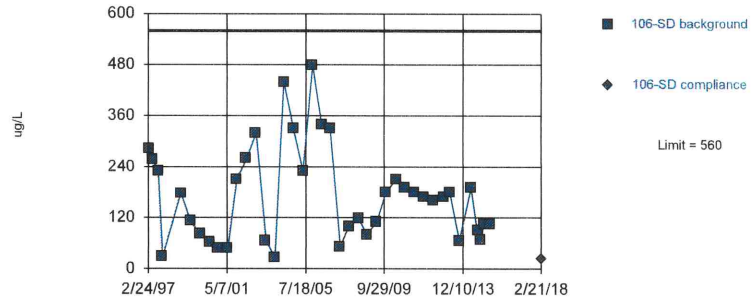
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=5.302, Std. Dev.=1.222, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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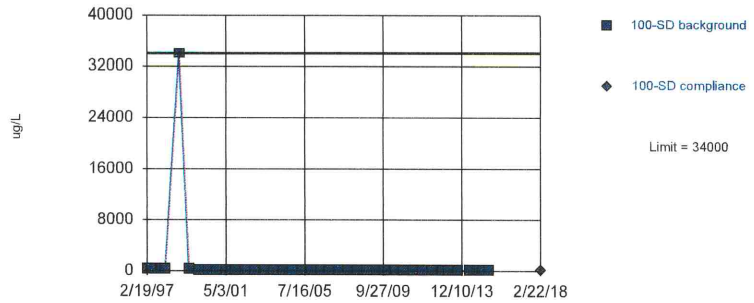
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

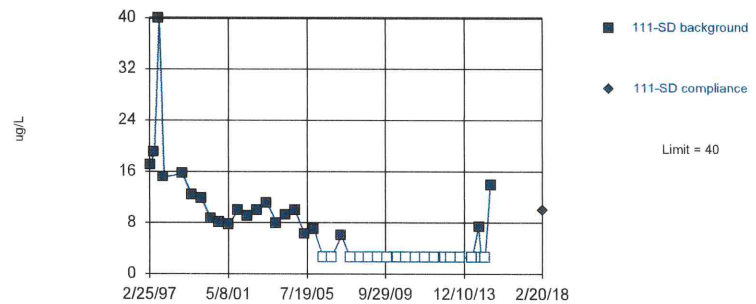
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 45% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Manganese Total Analysis Run 4/13/2018 12:43 PM

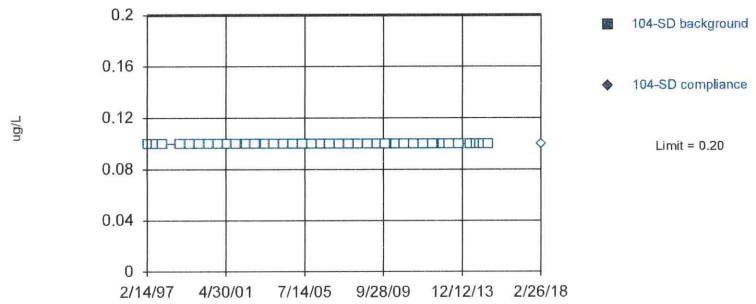
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Mercury Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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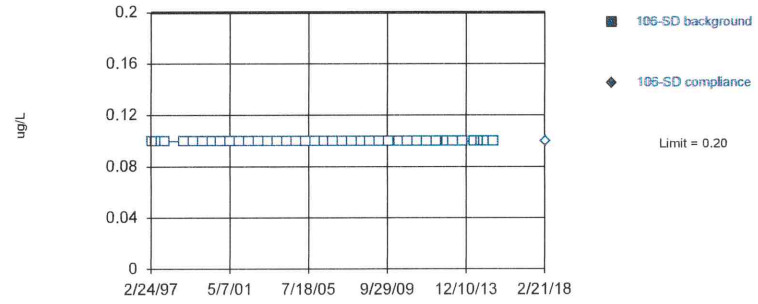
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Mercury Total Analysis Run 4/13/2018 12:43 PM

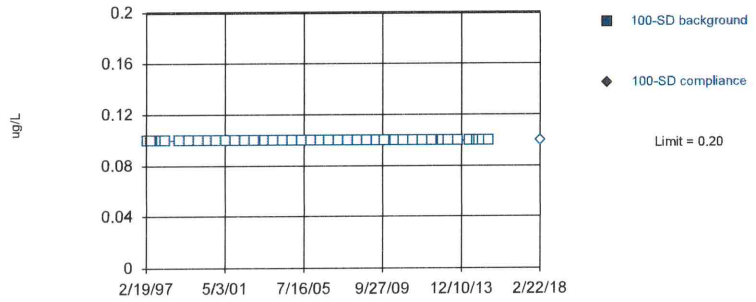
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Mercury Total Analysis Run 4/13/2018 12:43 PM

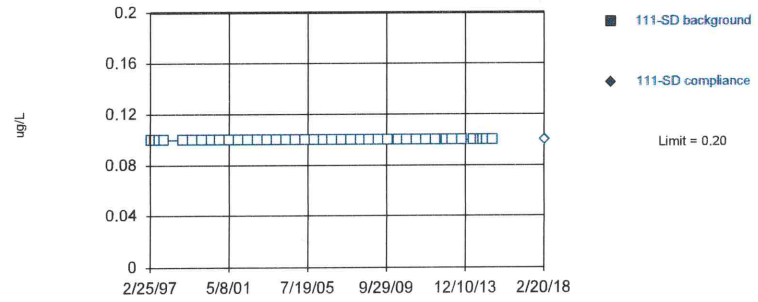
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Mercury Total Analysis Run 4/13/2018 12:43 PM

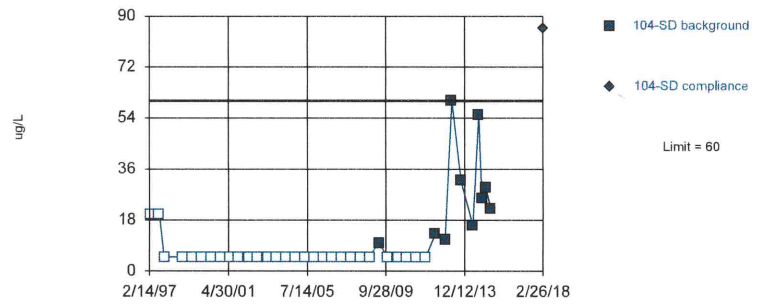
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

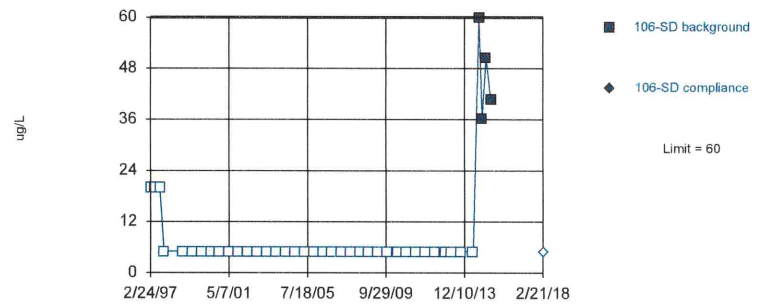
Constituent: Nickel Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

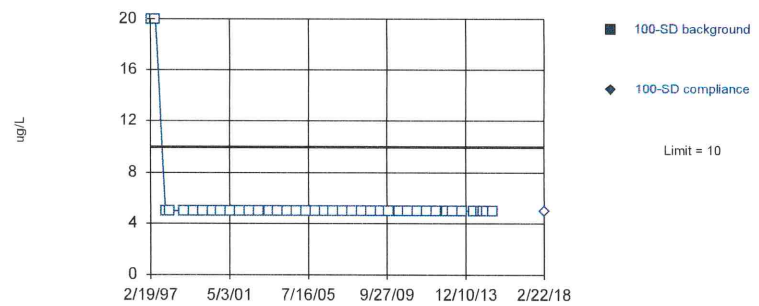
Constituent: Nickel Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

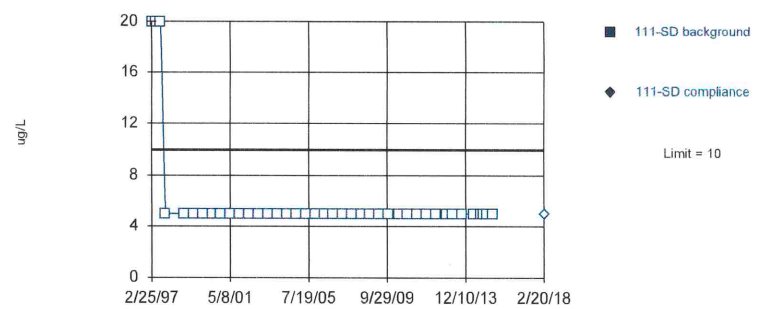
Constituent: Nickel Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

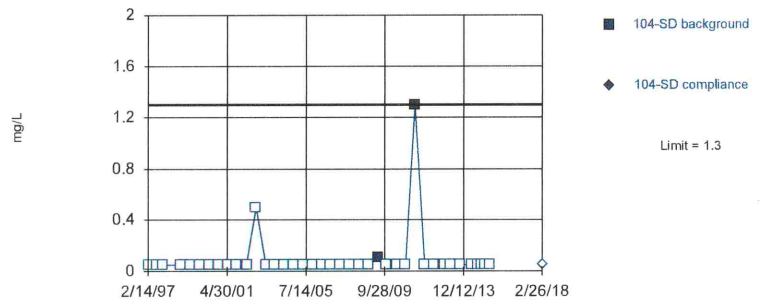
Constituent: Nickel Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 12:43 PM

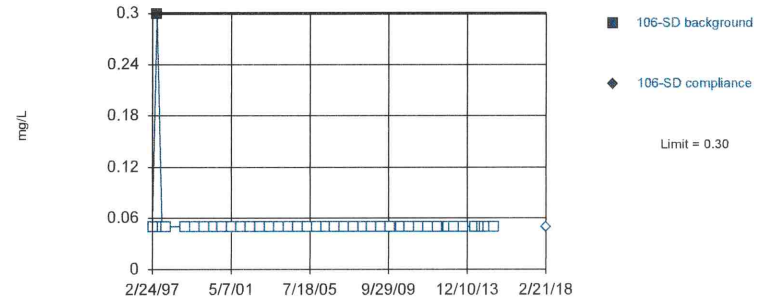
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 12:43 PM

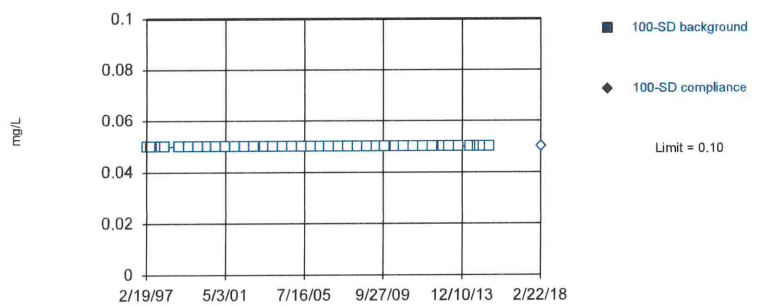
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 12:43 PM

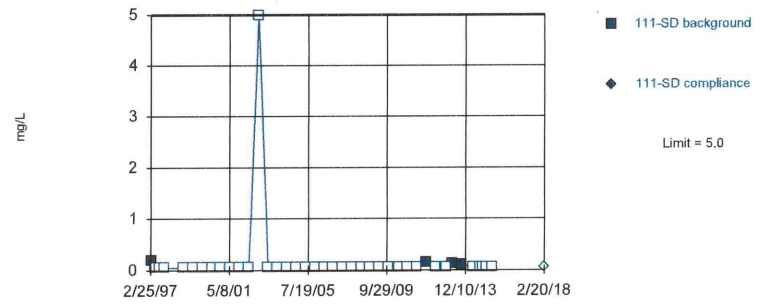
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 12:43 PM

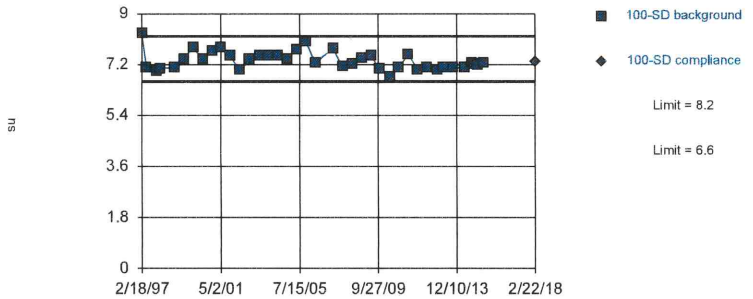
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.993, Std. Dev.=0.04354, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.942, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 8.5 (11/8/2006).

Constituent: pH [Field] Analysis Run 4/13/2018 12:43 PM

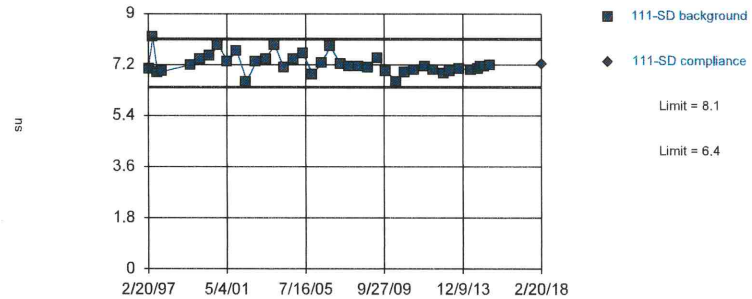
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.976, Std. Dev.=0.04679, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9391, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 5.2 (11/12/1998).

Constituent: pH [Field] Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

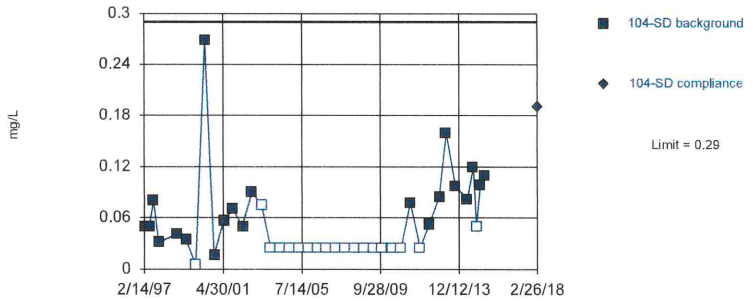
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-3.189, Std. Dev.=0.7998, n=40, 47.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9209, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 4/13/2018 12:43 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

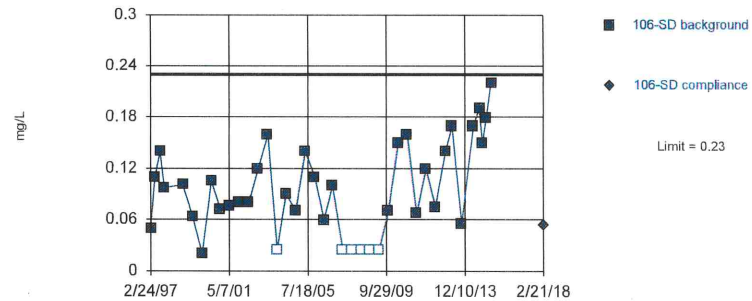
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.09779, Std. Dev.=0.05309, n=40, 15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 4/13/2018 12:43 PM

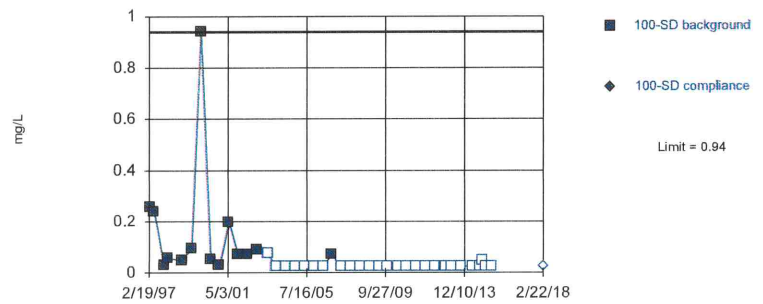
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 65% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 4/13/2018 12:43 PM

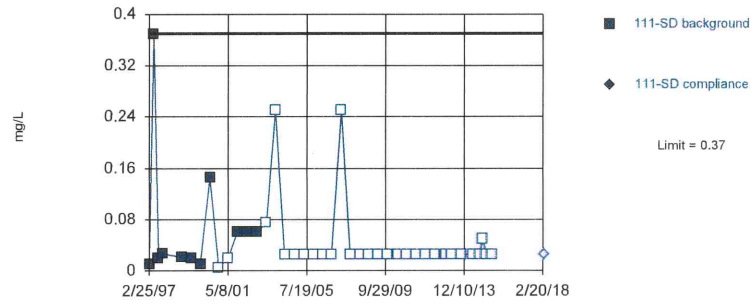
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 4/13/2018 12:43 PM

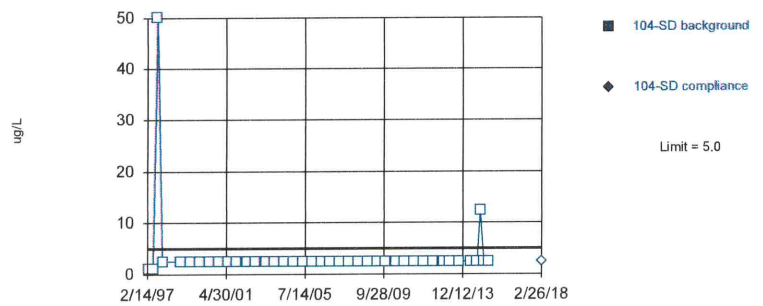
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 4/13/2018 12:43 PM

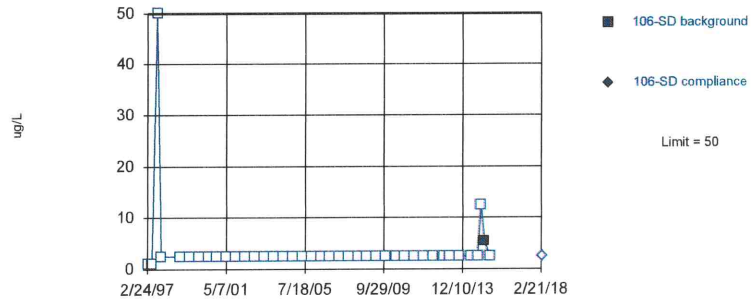
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 4/13/2018 12:43 PM

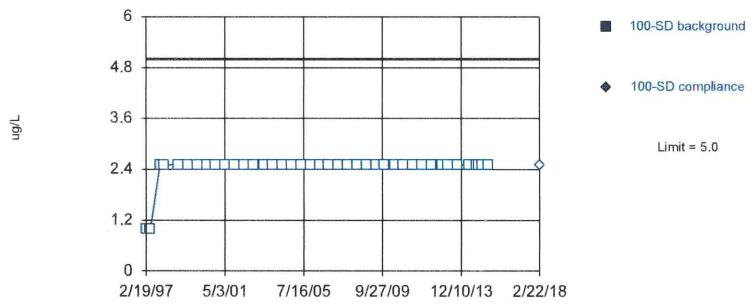
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 4/13/2018 12:43 PM

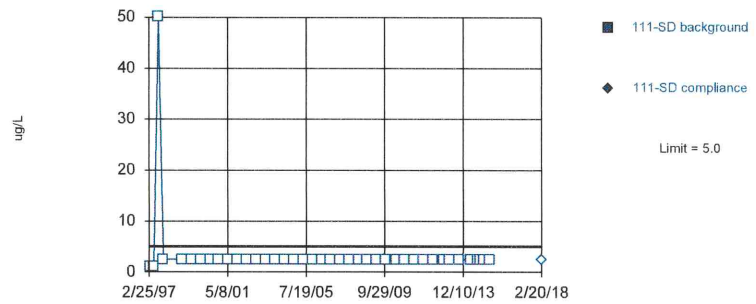
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 4/13/2018 12:43 PM

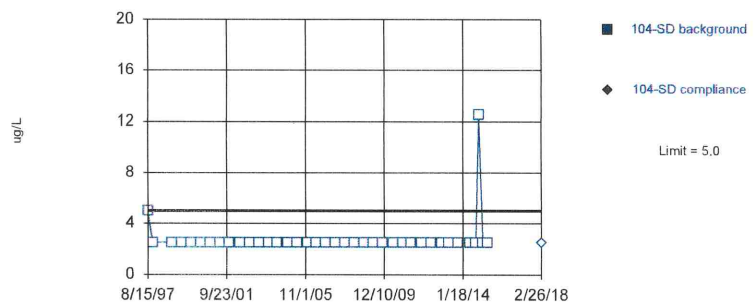
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 38) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 4/13/2018 12:43 PM

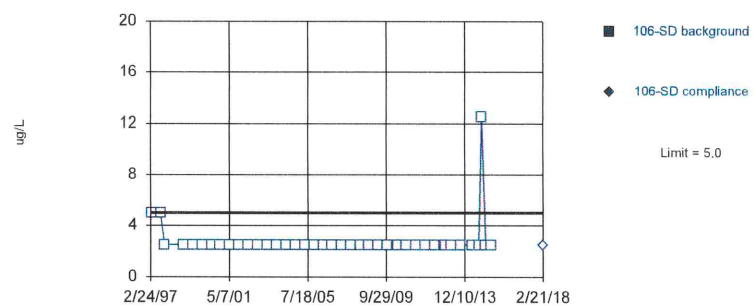
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 39) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 4/13/2018 12:43 PM

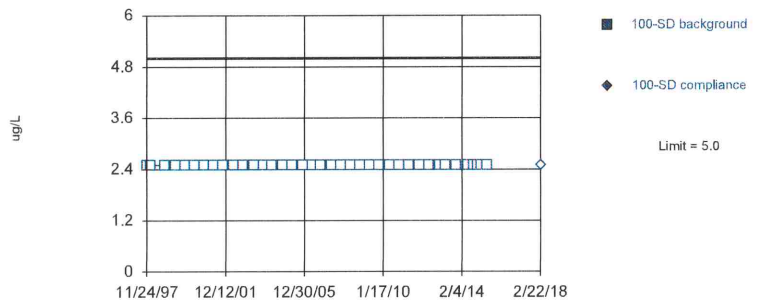
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 38) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

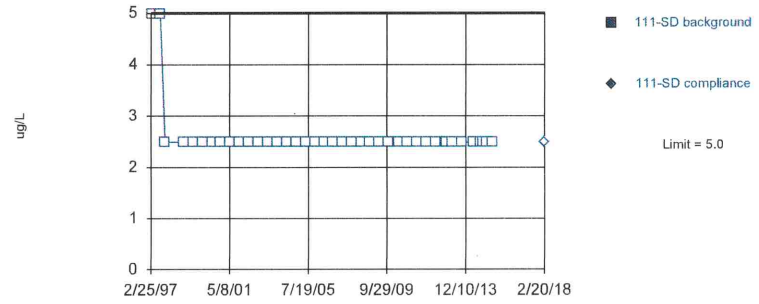
Constituent: Silver Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 39) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

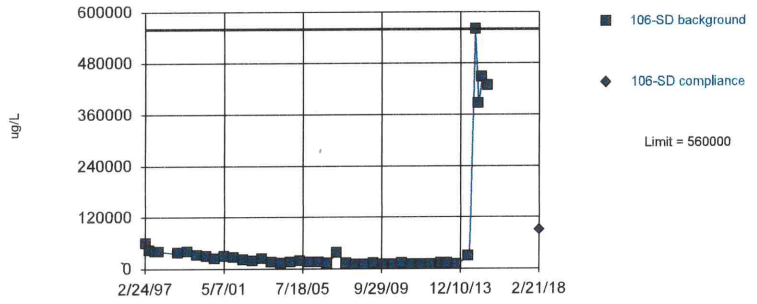
Constituent: Silver Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

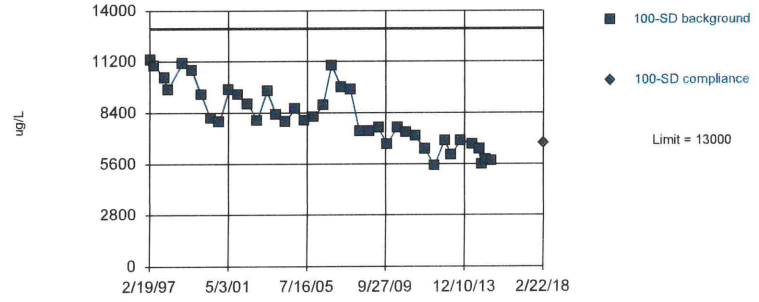
Constituent: Sodium Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=20.08, Std. Dev.=1.372, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

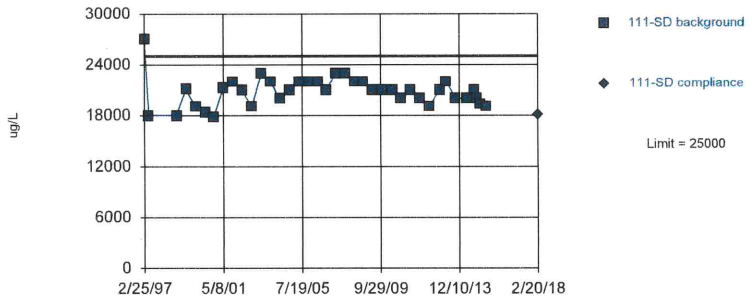
Constituent: Sodium Total Analysis Run 4/13/2018 12:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.94, Std. Dev.=0.08286, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 218000 (8/21/1997); 73500 (11/24/1997).

Constituent: Sodium Total Analysis Run 4/13/2018 12:43 PM

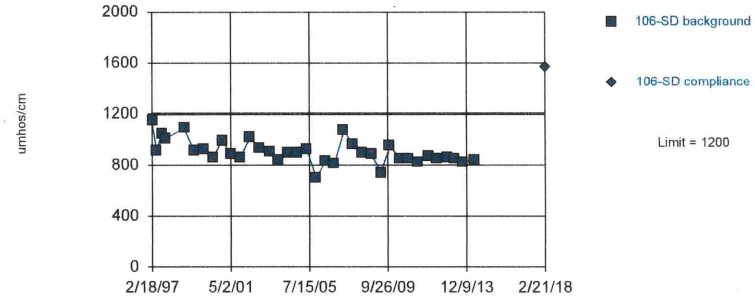
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.803, Std. Dev.=0.1014, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9655, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 4250 (9/24/2014); 3260 (11/20/2014); 3750 (2/4/2015); 3640 (5/14/2015).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 12:43 PM

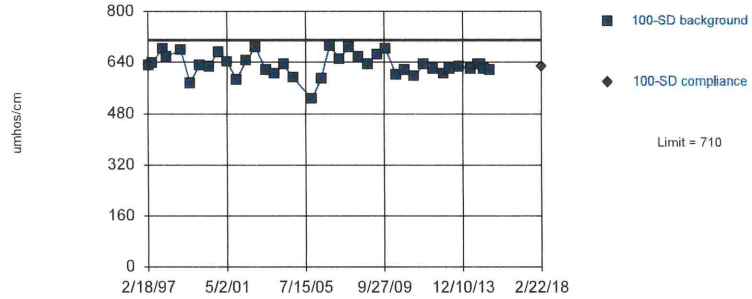
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=2.5e8, Std. Dev.=4.1e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9646, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 325 (5/24/2005).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 12:43 PM

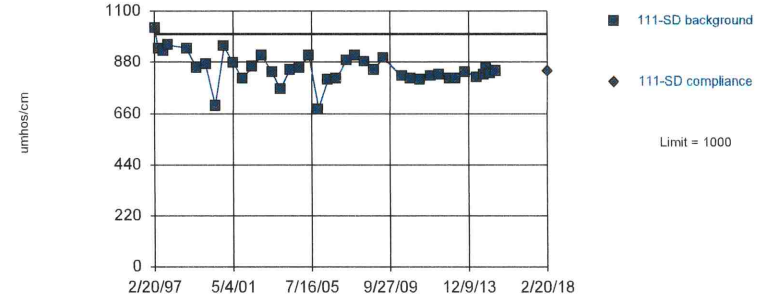
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=731124, Std. Dev.=112677, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 157.9 (11/3/2009).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 12:43 PM

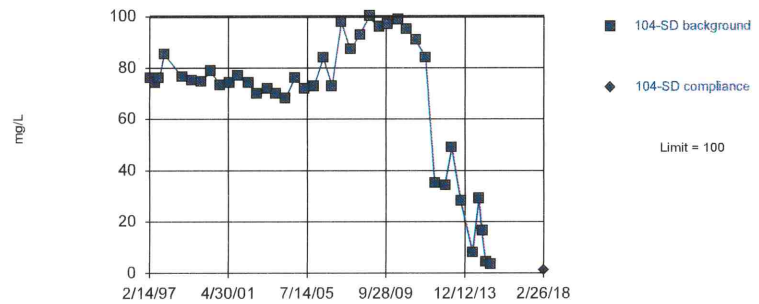
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sulfate Analysis Run 4/13/2018 12:43 PM

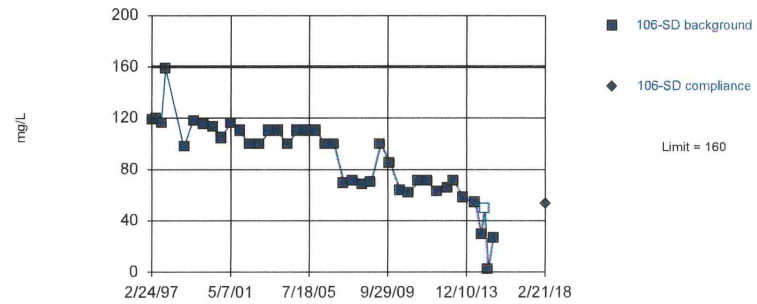
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=87.24, Std. Dev.=31.12, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Sulfate Analysis Run 4/13/2018 12:43 PM

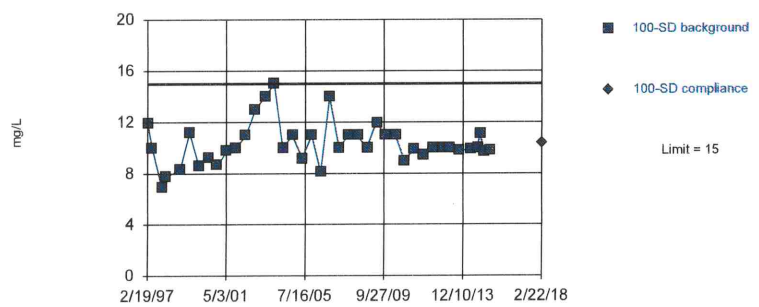
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.323, Std. Dev.=0.1561, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9566, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 4/13/2018 12:43 PM

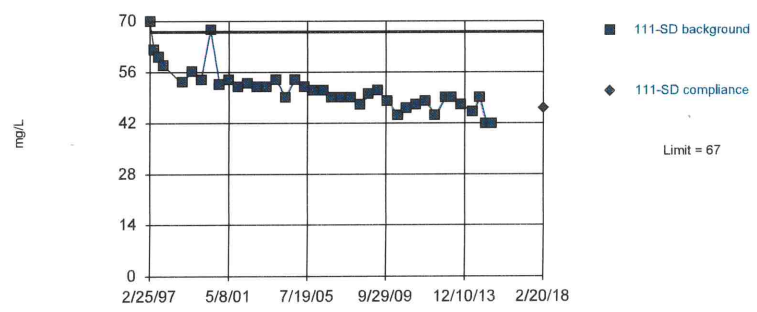
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.932, Std. Dev.=0.1116, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: <50 (11/19/2014).

Constituent: Sulfate Analysis Run 4/13/2018 12:43 PM

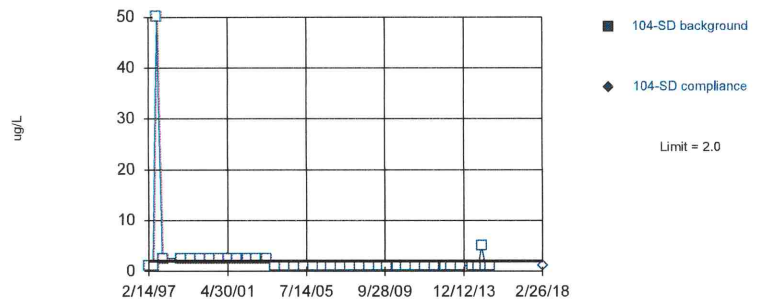
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 12:43 PM

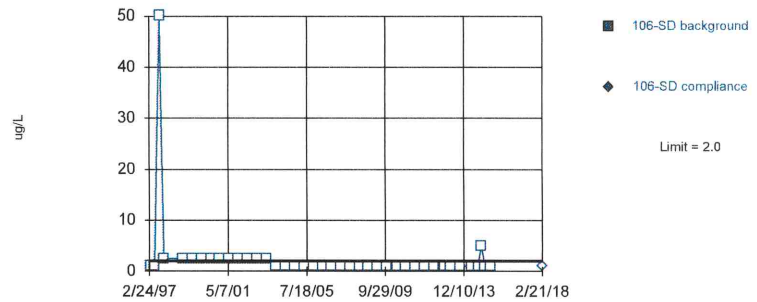
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 12:43 PM

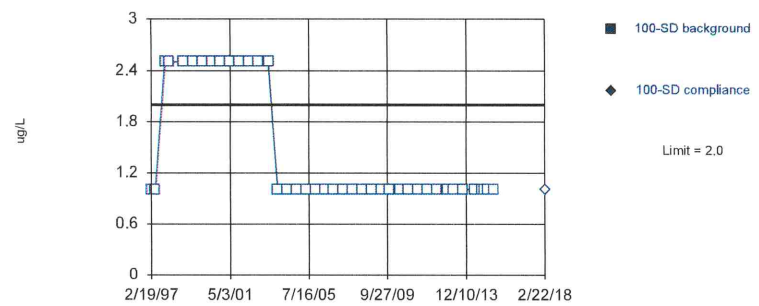
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Thallium Total Analysis Run 4/13/2018 12:44 PM

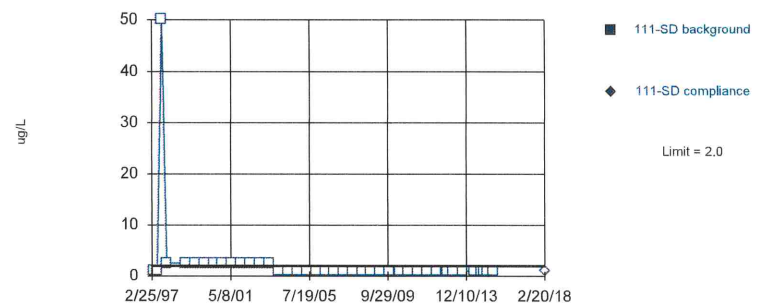
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 4/13/2018 12:44 PM

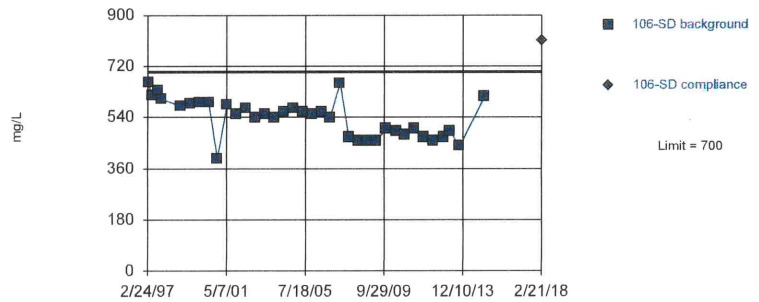
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=538.1, Std. Dev.=65.86, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9645, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 1600 (5/28/2014); 3200 (9/24/2014); 2090 (11/20/2014); 2150 (5/14/2015).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 12:44 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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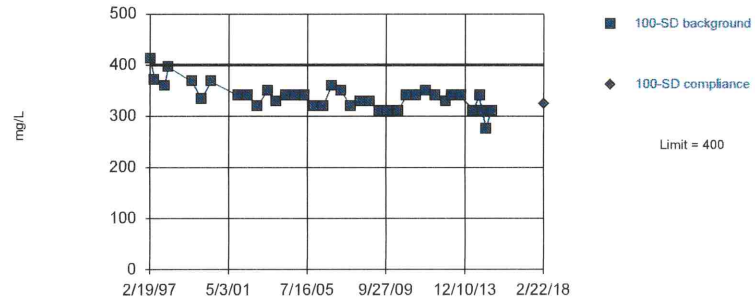
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.819, Std. Dev.=0.07451, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Three background outliers were removed: 116 (11/14/1998); 512 (11/13/2000); 551 (5/15/2001).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 12:44 PM

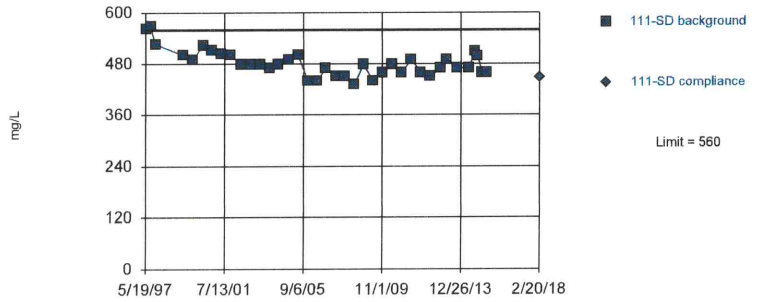
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.175, Std. Dev.=0.06301, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 340 (2/25/1997); 634 (11/12/1998).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 12:44 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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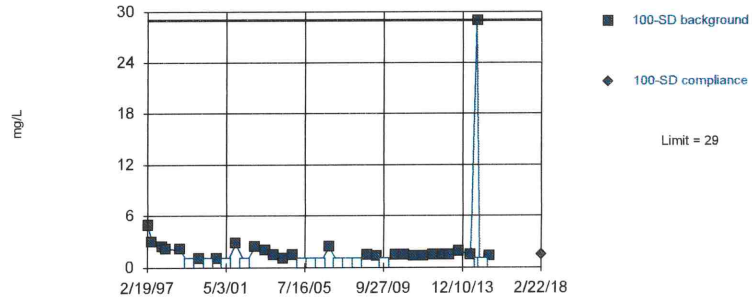
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 12:44 PM

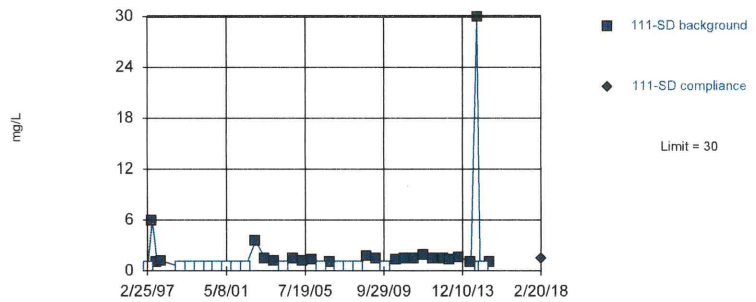
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 42.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

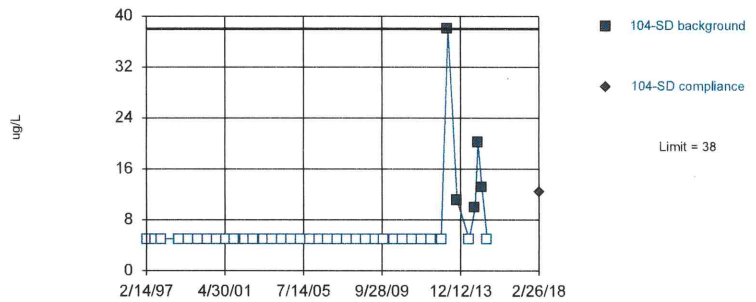
Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 12:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

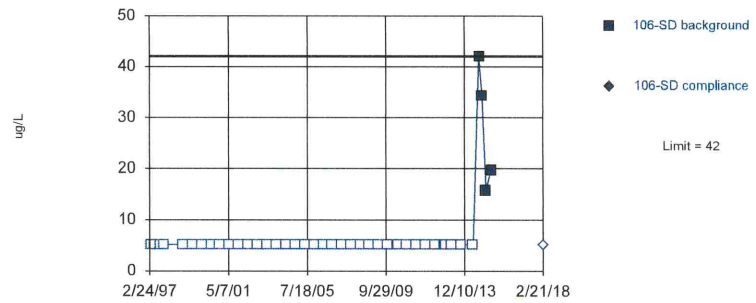
Constituent: Vanadium Total Analysis Run 4/13/2018 12:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

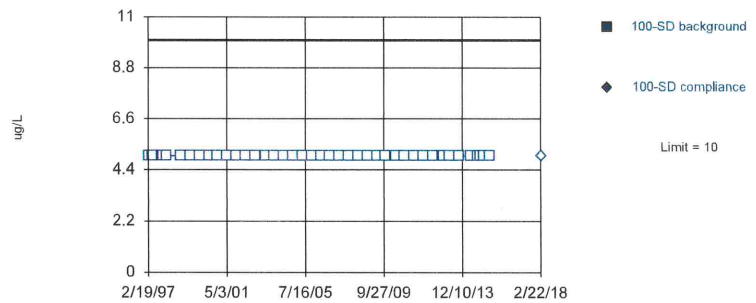
Constituent: Vanadium Total Analysis Run 4/13/2018 12:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

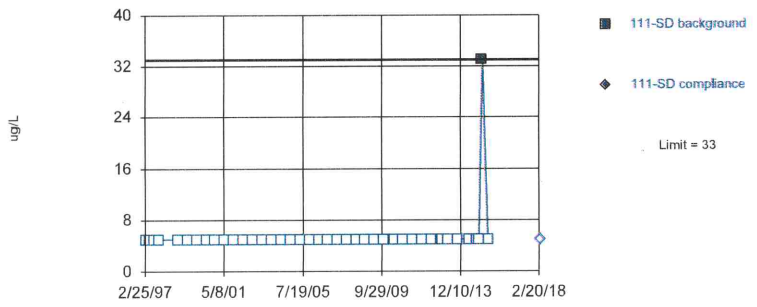
Constituent: Vanadium Total Analysis Run 4/13/2018 12:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 4/13/2018 12:44 PM

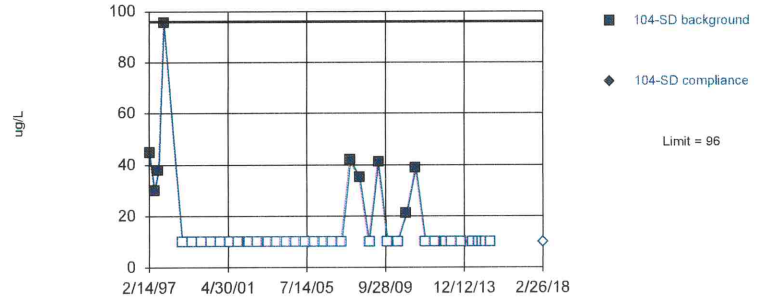
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 77.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 12:44 PM

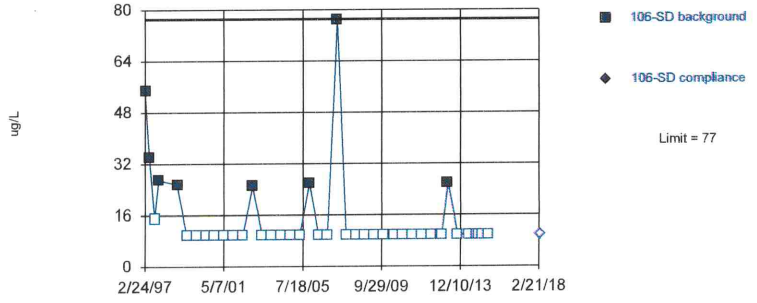
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 12:44 PM

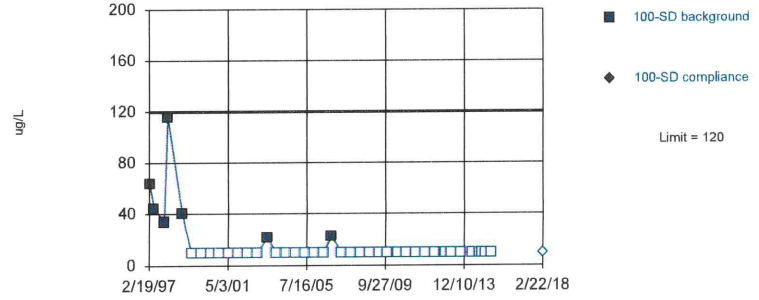
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 12:44 PM

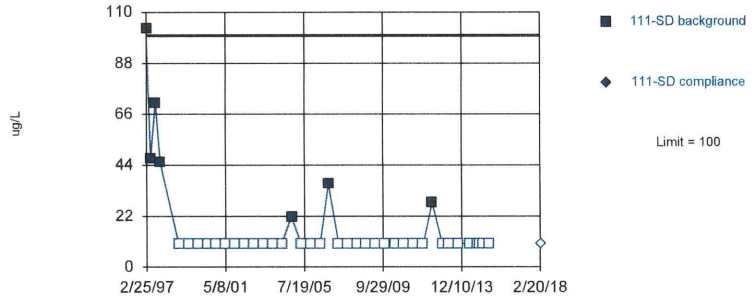
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 4/13/2018 12:44 PM

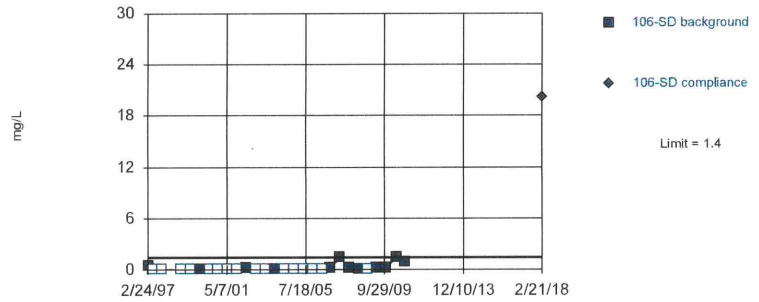
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 29 background values. 55.17% NDs. Well-constituent pair annual alpha = 0.00858. Individual comparison alpha = 0.002152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Ammonia as N Analysis Run 4/13/2018 12:50 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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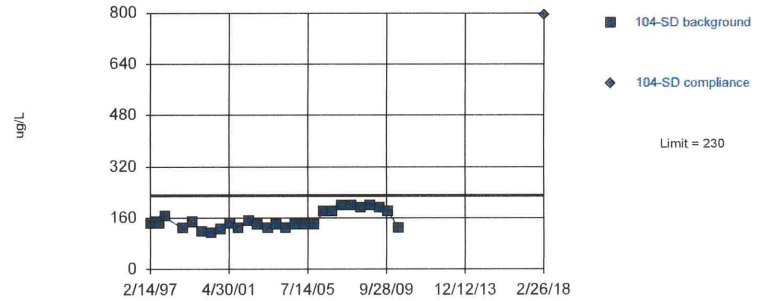
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.011, Std. Dev.=0.17, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.896. Kappa = 2.544 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 4/13/2018 12:51 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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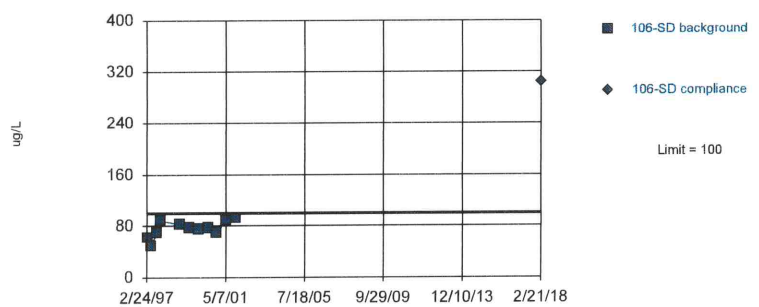
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=465937, Std. Dev.=199834, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9753, critical = 0.85. Kappa = 3.335 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Dixon's outlier test was performed on the background data. No background outliers were found.

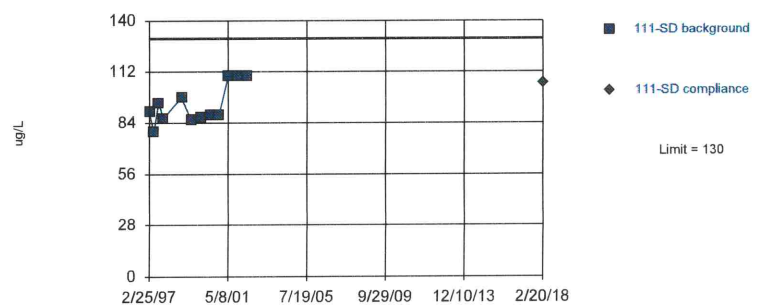
Constituent: Barium Total Analysis Run 4/13/2018 12:51 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.538, Std. Dev.=0.1113, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8796, critical = 0.859. Kappa = 3.187 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 4/13/2018 12:52 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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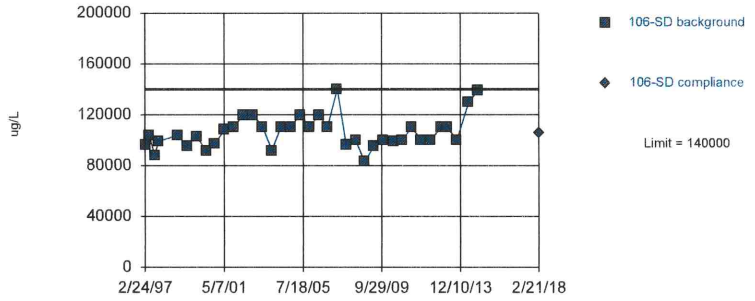
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.57, Std. Dev.=0.1154, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9502, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 200000 (9/24/2014).

Constituent: Calcium Total Analysis Run 4/13/2018 12:54 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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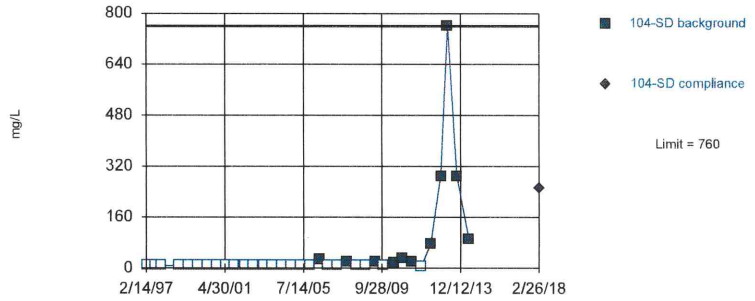
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 69.44% NDs. Well-constituent pair annual alpha = 0.005668. Individual comparison alpha = 0.00142 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 12:55 PM

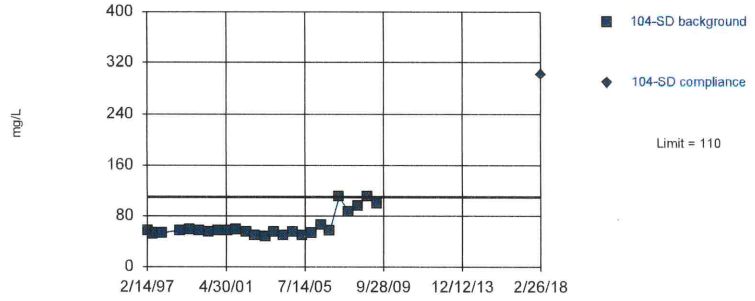
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. Well-constituent pair annual alpha = 0.01051. Individual comparison alpha = 0.002637 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chloride Analysis Run 4/13/2018 12:55 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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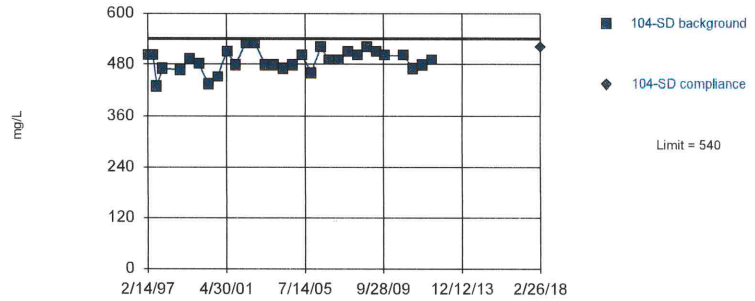
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=5.8e10, Std. Dev.=1.1e10, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9727, critical = 0.902. Kappa = 2.504 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 360 (5/20/2010).

Constituent: Hardness Total Analysis Run 4/13/2018 12:56 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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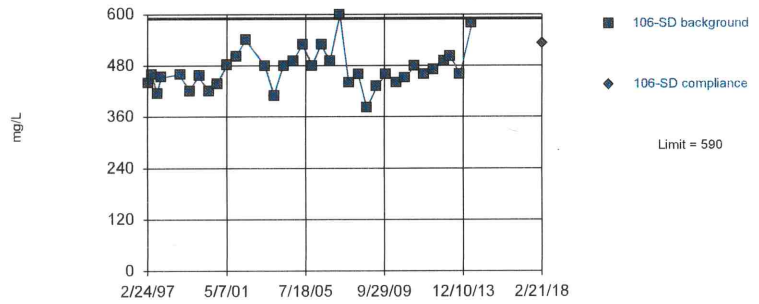
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.15, Std. Dev.=0.09469, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.91. Kappa = 2.466 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 180 (11/19/2002); 1300 (9/24/2014).

Constituent: Hardness Total Analysis Run 4/13/2018 12:57 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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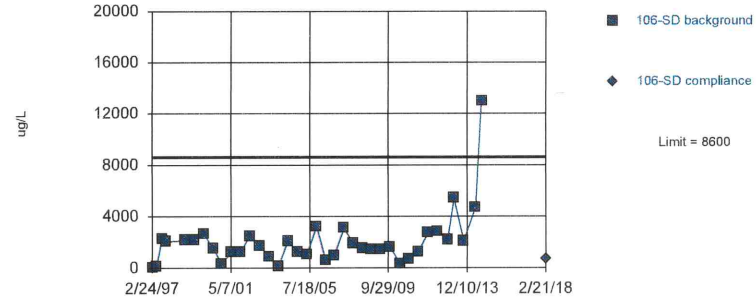
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=11.73, Std. Dev.=3.576, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9382, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Iron Total Analysis Run 4/13/2018 12:58 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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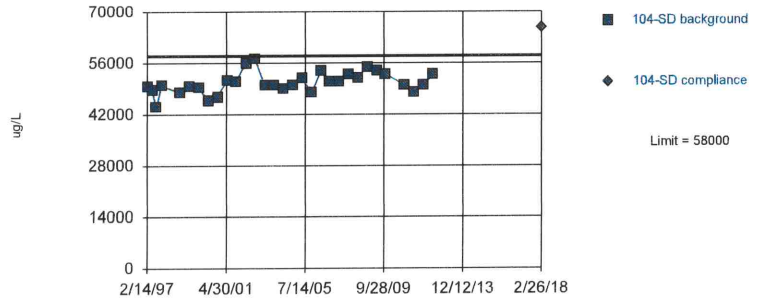
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=36.99, Std. Dev.=0.6987, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9809, critical = 0.902. Kappa = 2.504 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 37000 (5/20/2010).

Constituent: Magnesium Total Analysis Run 4/13/2018 12:59 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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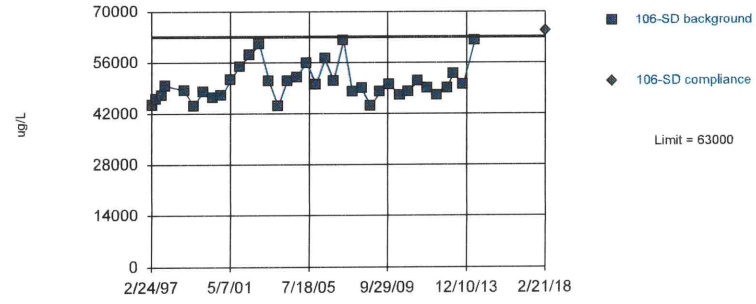
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.82, Std. Dev.=0.09234, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 190000 (9/24/2014); 119000 (11/20/2014).

Constituent: Magnesium Total Analysis Run 4/13/2018 12:59 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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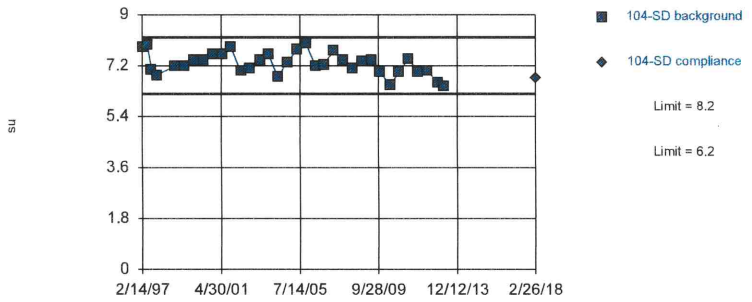
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=53, Std. Dev.=5.7, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.908. Kappa = 2.475 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 1:00 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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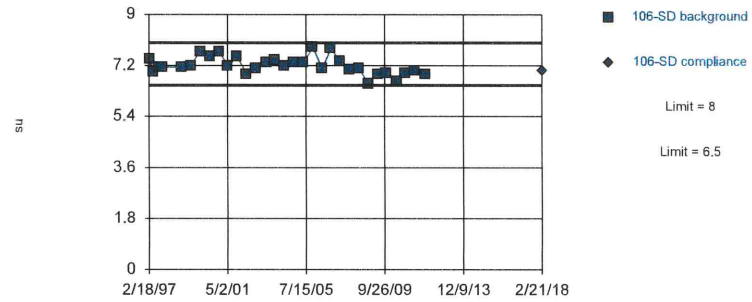
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.04295, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.902. Kappa = 2.504 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 4/13/2018 1:01 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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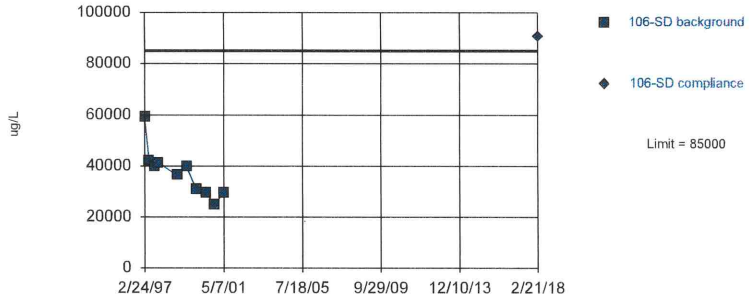
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.5, Std. Dev.=0.2441, n=10. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9457, critical = 0.842. Kappa = 3.482 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 4/13/2018 1:02 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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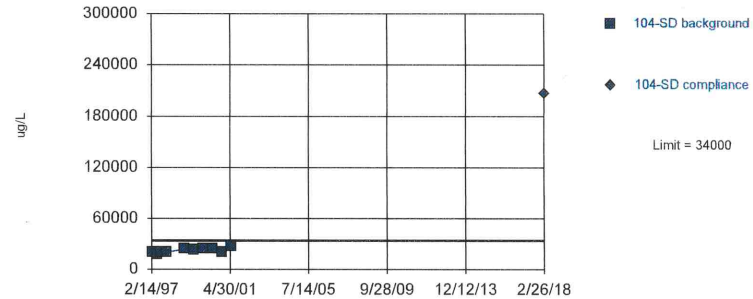
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10, Std. Dev.=0.1276, n=10. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9451, critical = 0.842. Kappa = 3.482 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 4/13/2018 1:03 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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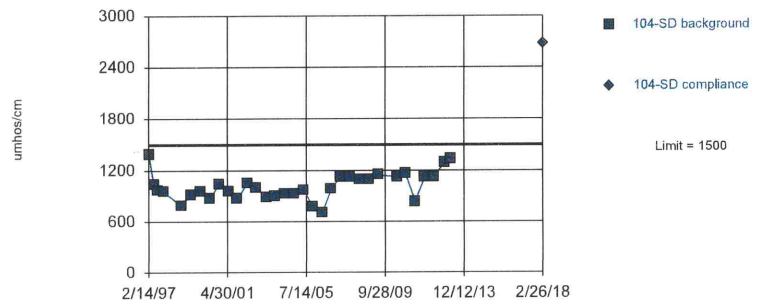
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.911, Std. Dev.=0.1526, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9837, critical = 0.906. Kappa = 2.485 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 130.2 (11/4/2009).

Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 1:04 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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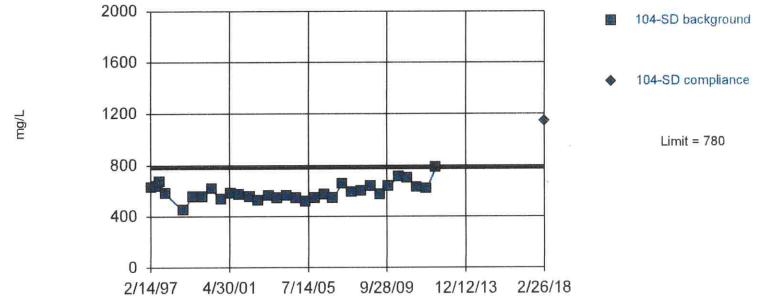
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.38, Std. Dev.=0.11, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9651, critical = 0.904. Kappa = 2.494 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 1800 (11/27/2012); 1300 (4/11/2013).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 1:04 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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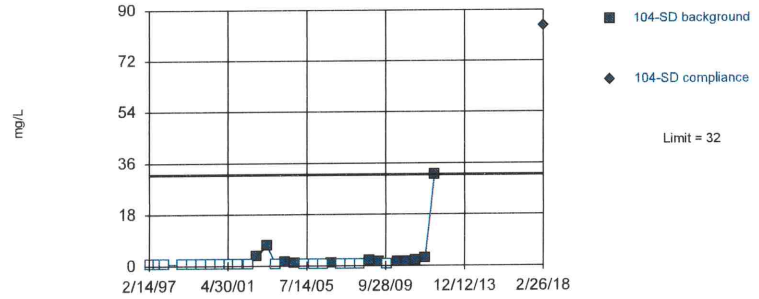
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.007136. Individual comparison alpha = 0.001789 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 1:05 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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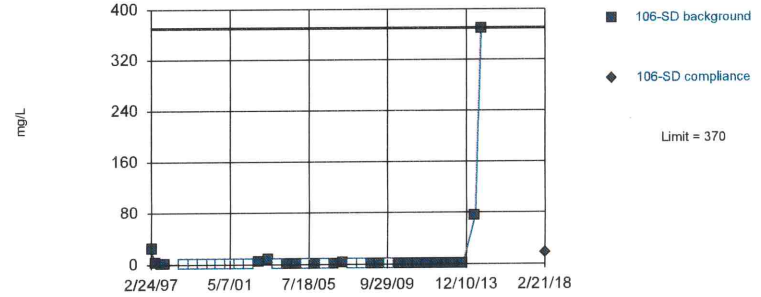
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. 37.84% NDs. Well-constituent pair annual alpha = 0.005401. Individual comparison alpha = 0.001353 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 1:05 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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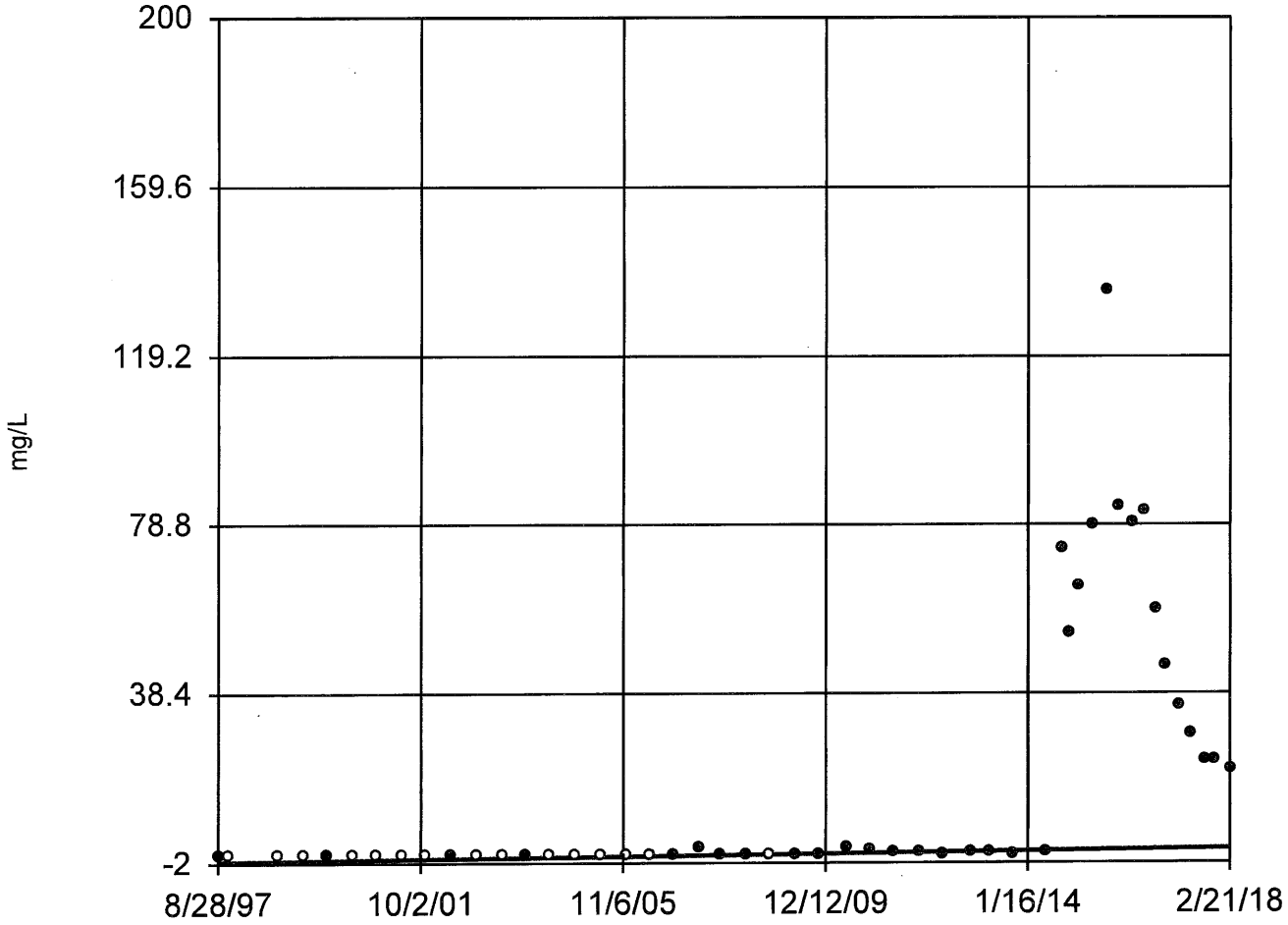
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD



n = 49

Slope = 0.1437 units per year.

Mann-Kendall normal approx. = 6.271
critical = 2.33

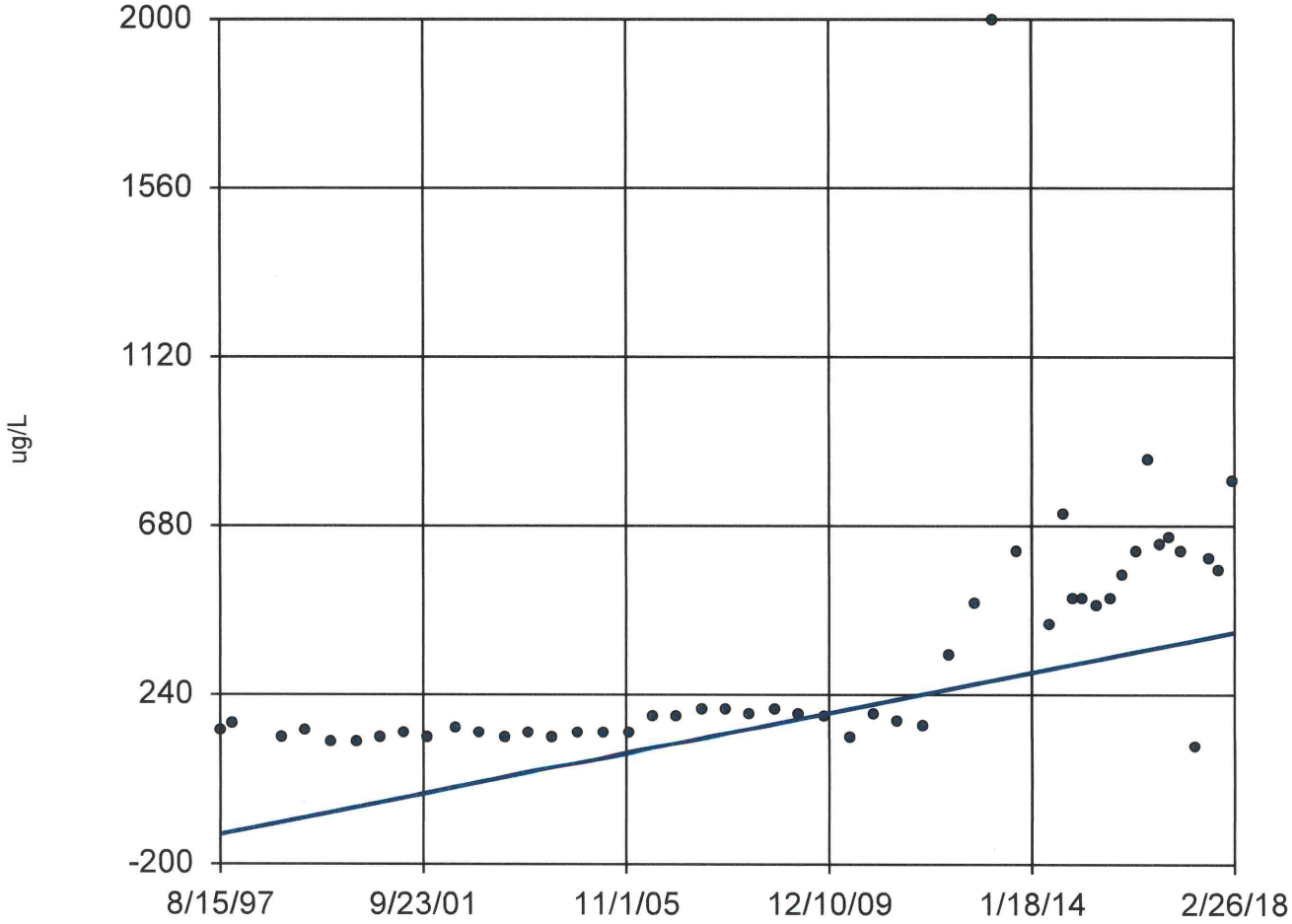
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Ammonia as N Analysis Run 4/17/2018 12:17 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

104-SD



n = 49

Slope = 25.61 units per year.

Mann-Kendall normal approx. = 6.172
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 4/17/2018 12:18 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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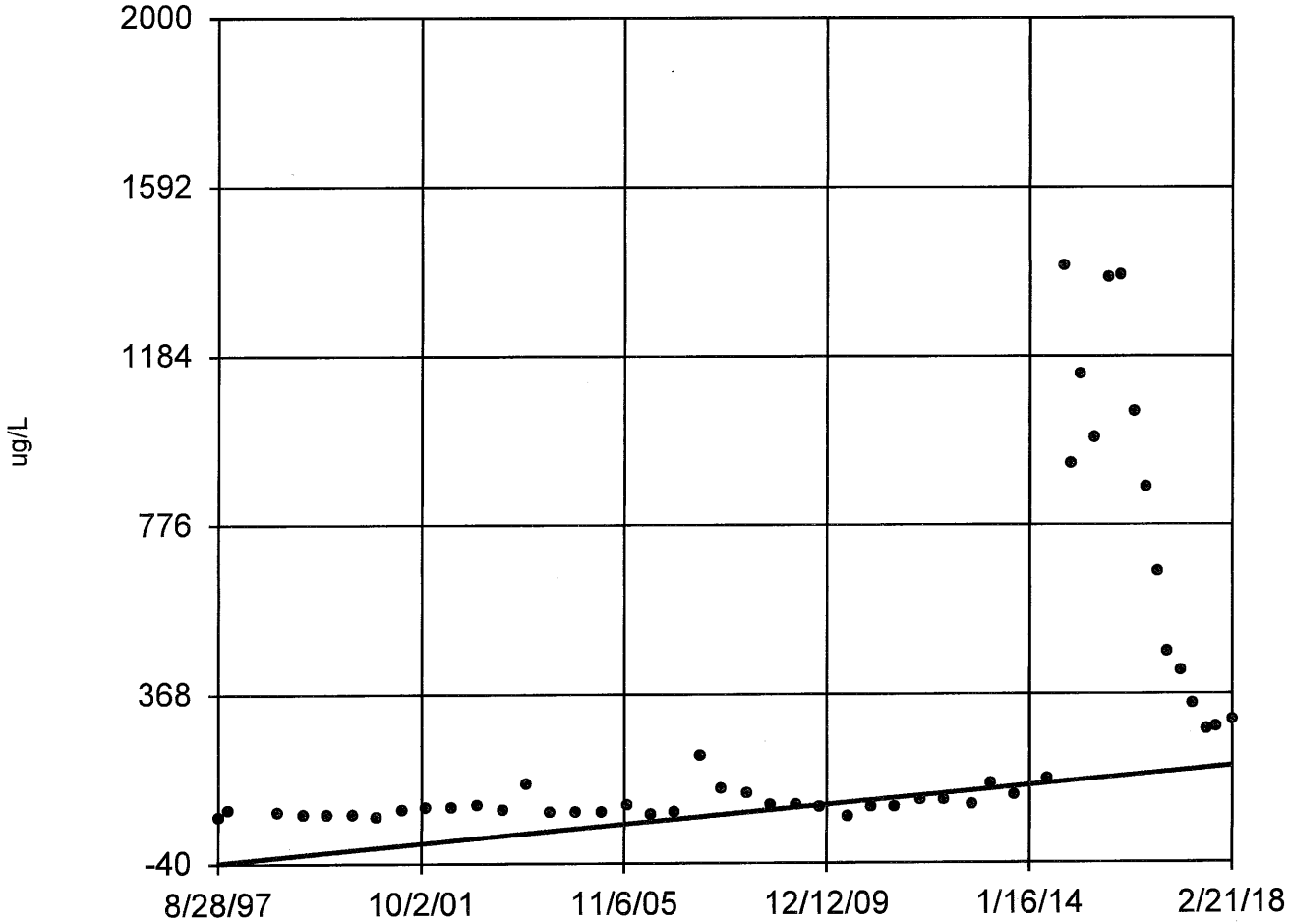
Sen's Slope Estimator

106-SD



n = 49

Slope = 11.28 units per year.

Mann-Kendall normal approx. = 5.846
critical = 2.33

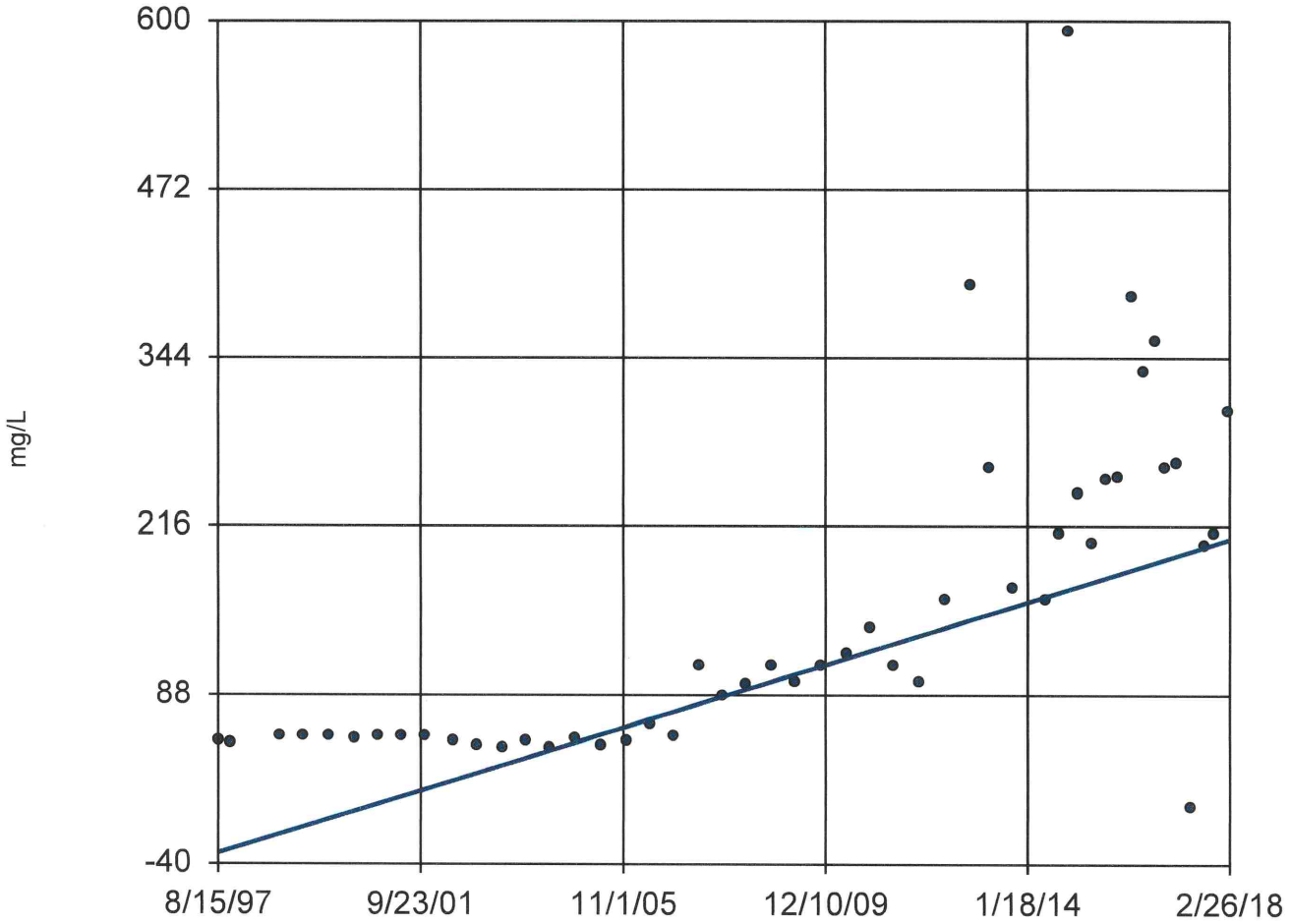
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 4/17/2018 12:19 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

104-SD



n = 49

Slope = 11.59 units per year.

Mann-Kendall normal approx. = 6.252
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 4/17/2018 12:20 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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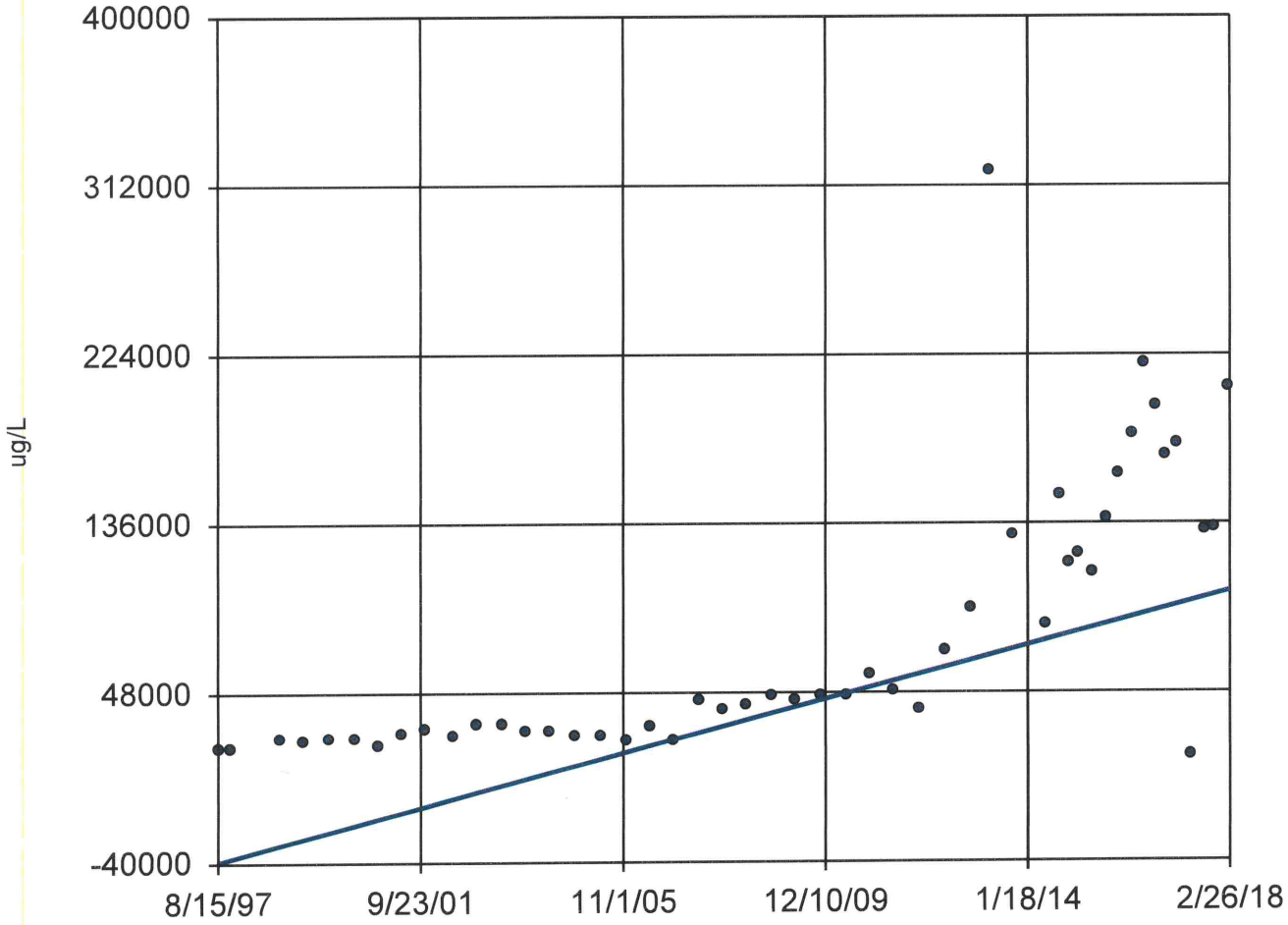
Sen's Slope Estimator

104-SD



n = 49

Slope = 6805 units per year.

Mann-Kendall normal approx. = 7.243
critical = 2.33

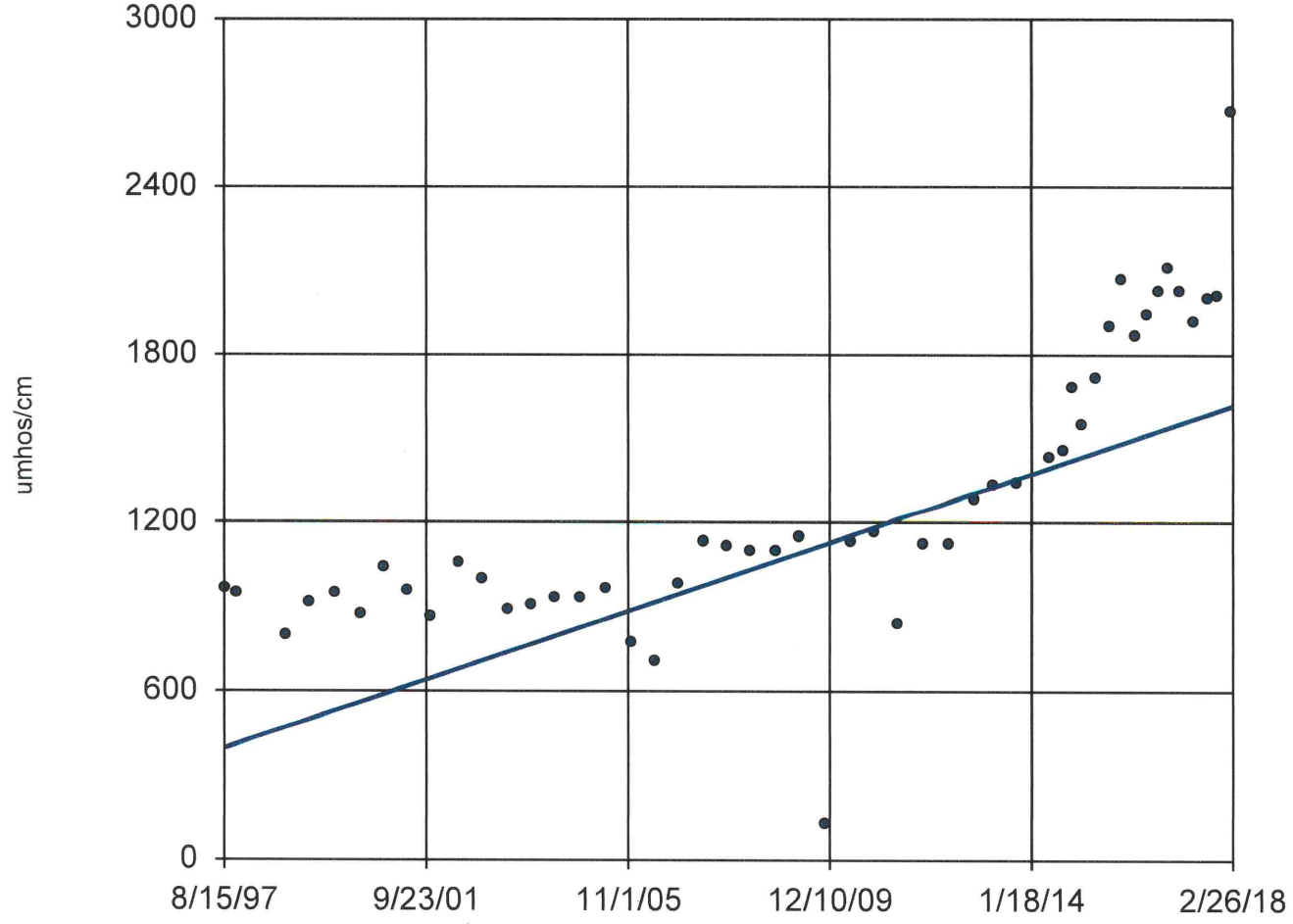
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 4/17/2018 12:21 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

104-SD



n = 49

Slope = 59.53 units per year.

Mann-Kendall normal approx. = 7.129
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Specific Conductance [Field] Analysis Run 4/17/2018 12:22 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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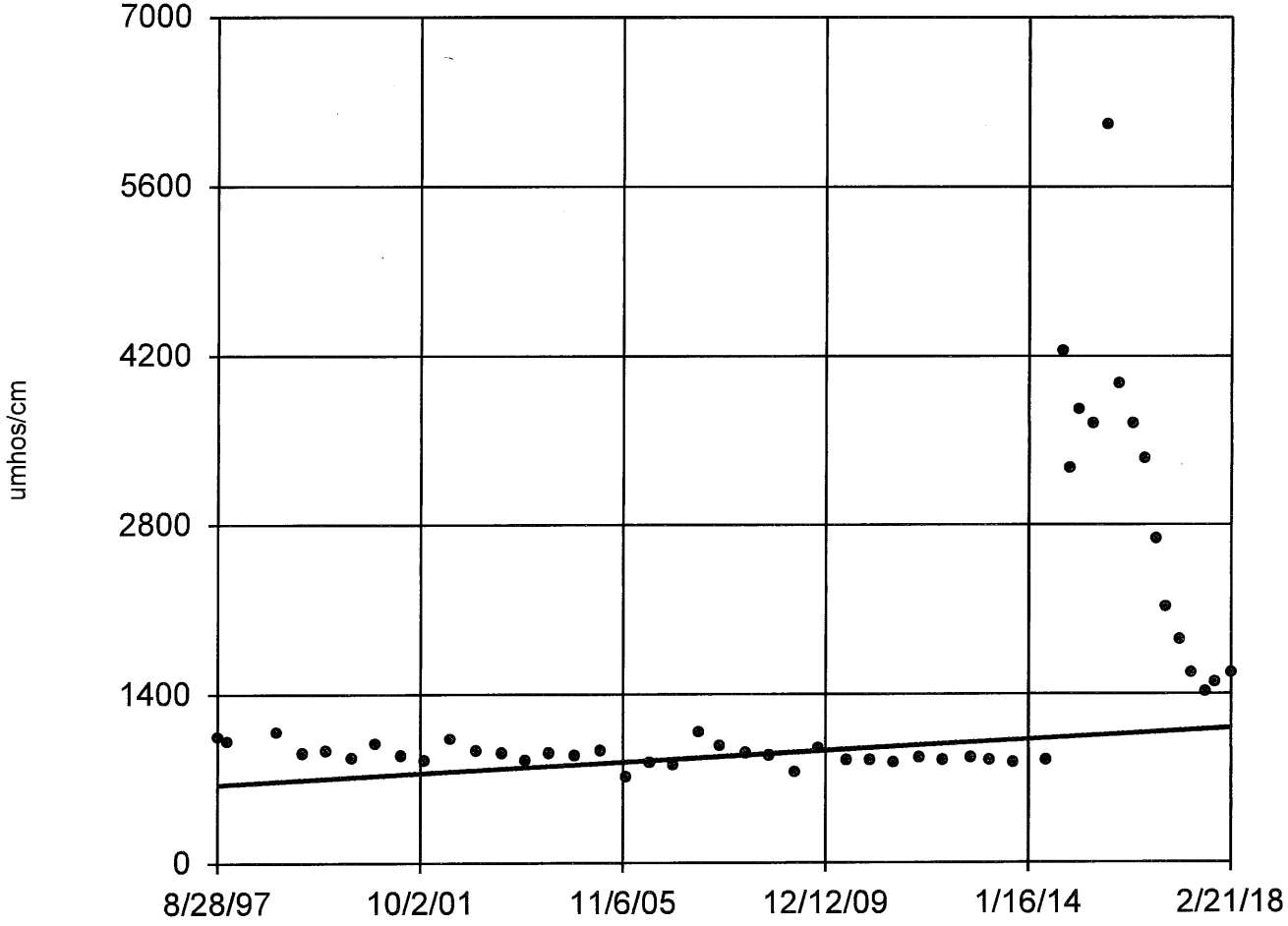
Sen's Slope Estimator

106-SD



n = 49

Slope = 22.62 units per year.

Mann-Kendall normal approx. = 1.733
critical = 2.33

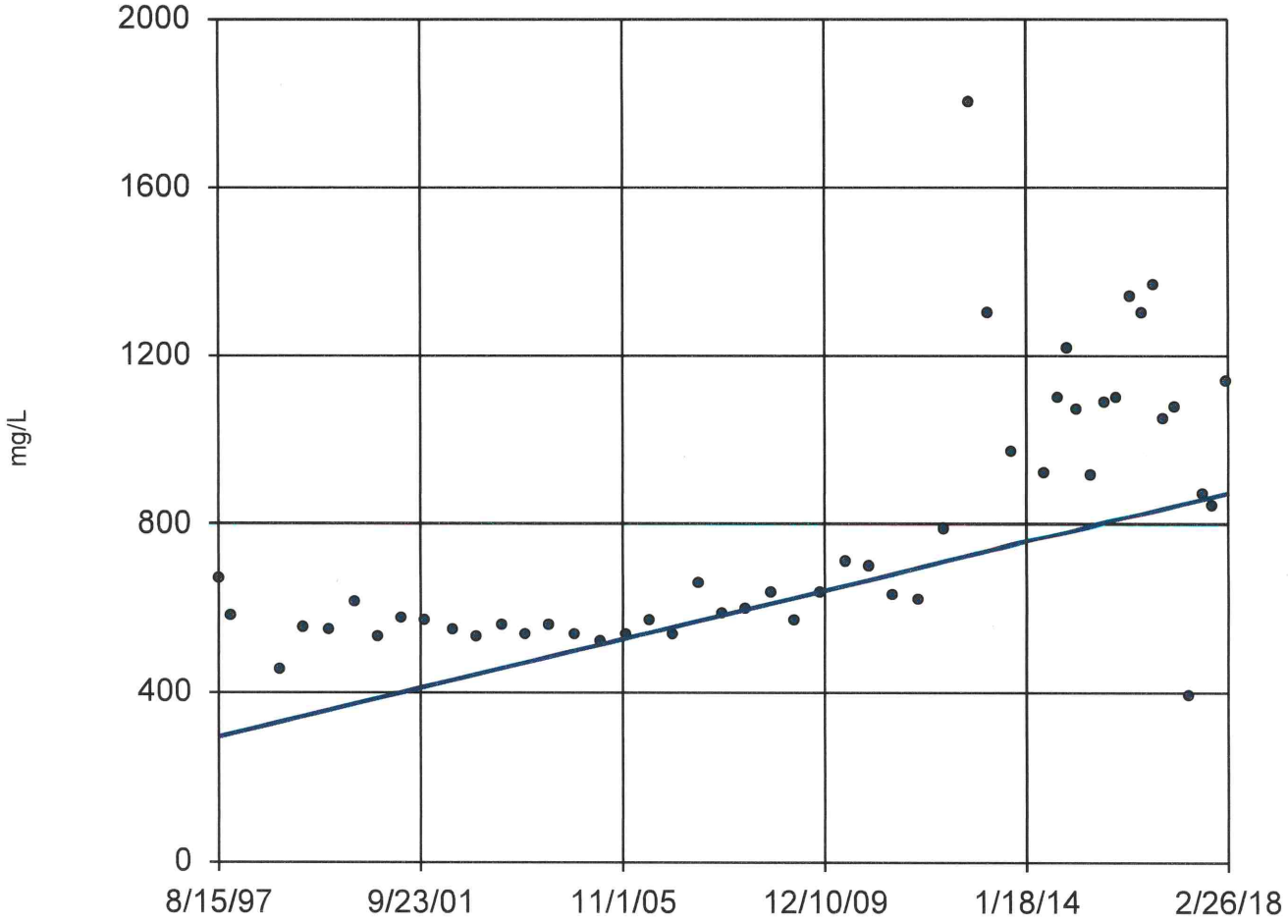
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Specific Conductance [Field] Analysis Run 4/17/2018 12:23 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

104-SD



n = 49

Slope = 28.21 units per year.

Mann-Kendall normal approx. = 5.348
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 4/17/2018 12:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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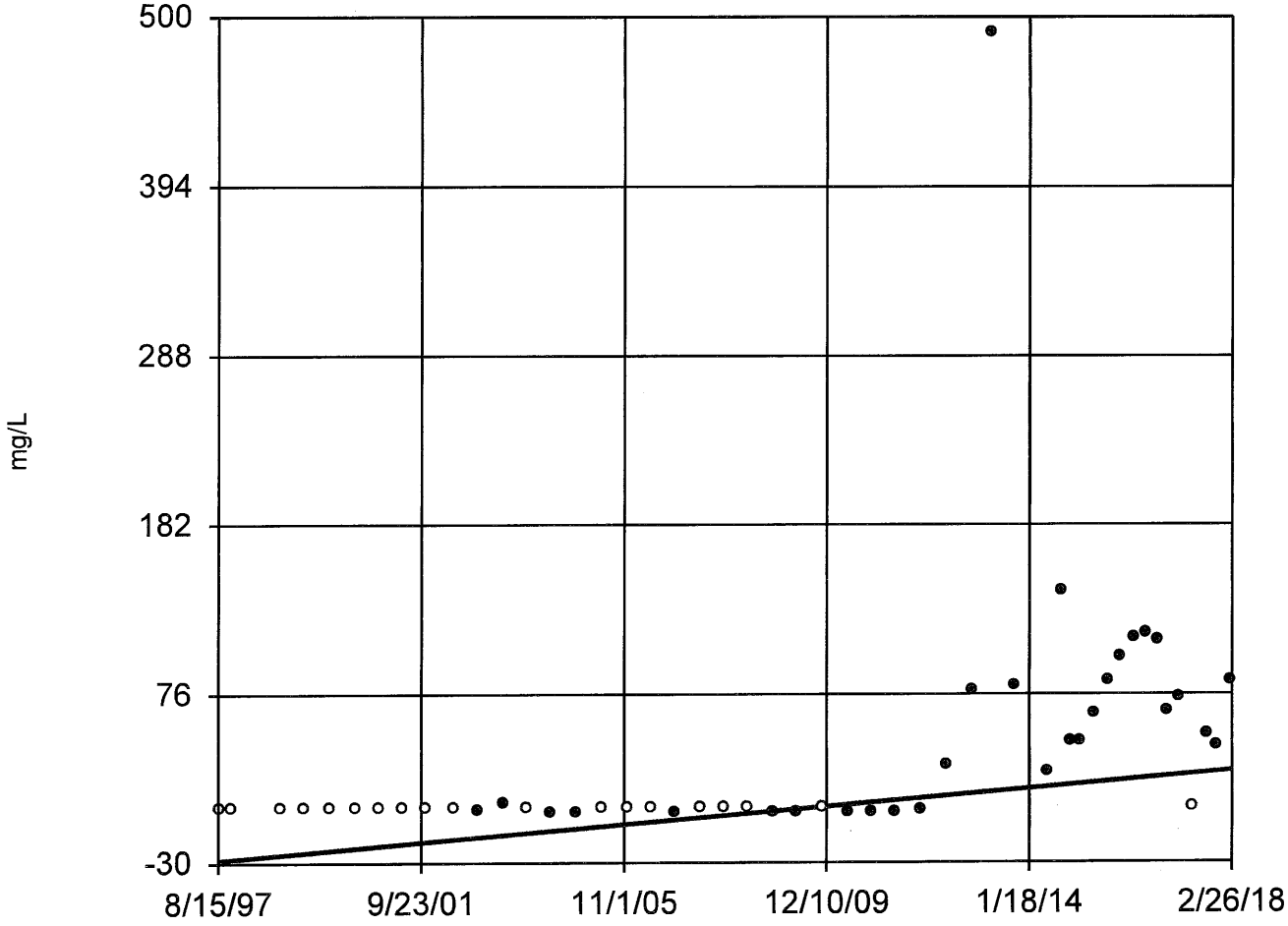
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD



n = 49

Slope = 2.708 units per year.

Mann-Kendall normal approx. = 3.887
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Organic Carbon [TOC] Analysis Run 4/17/2018 12:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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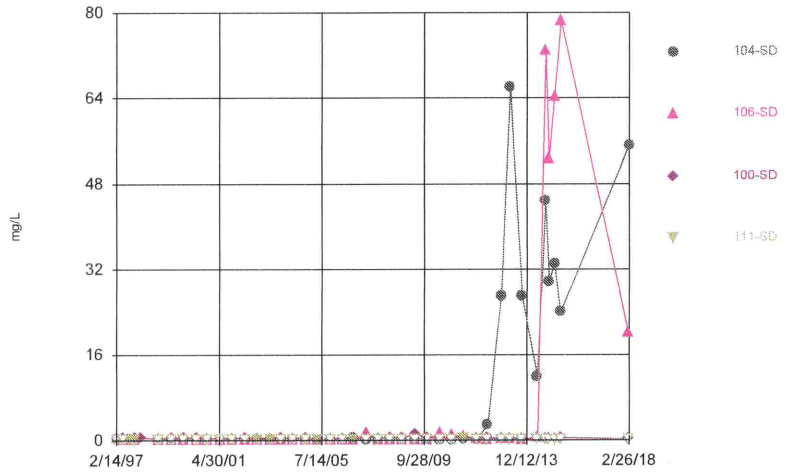
Hollow symbols indicate censored values.

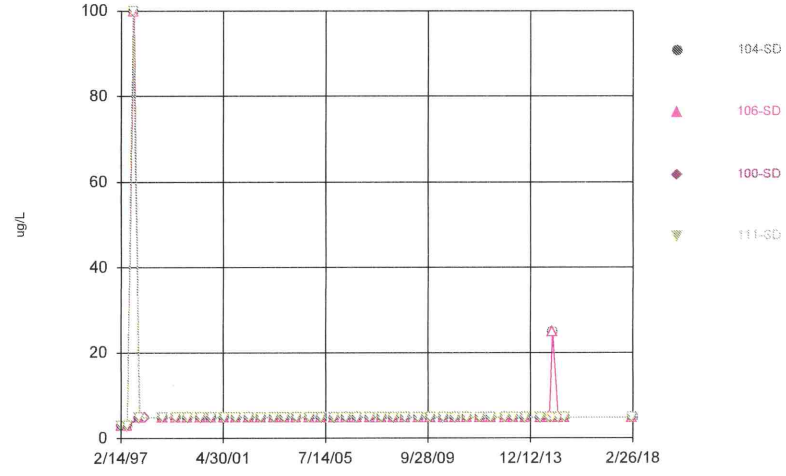
Time Series



Constituent: Ammonia as N Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

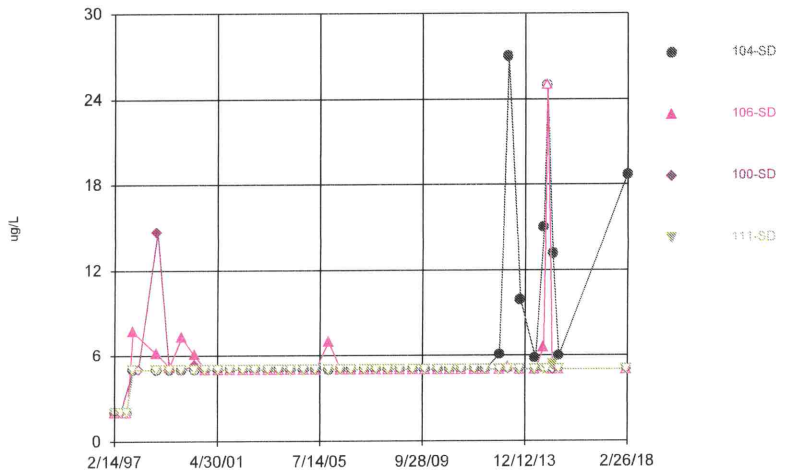
Time Series



Constituent: Antimony Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

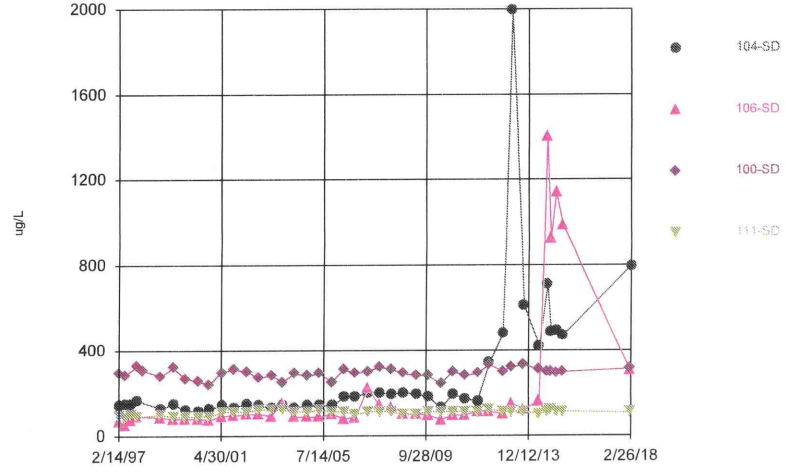
Time Series



Constituent: Arsenic Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

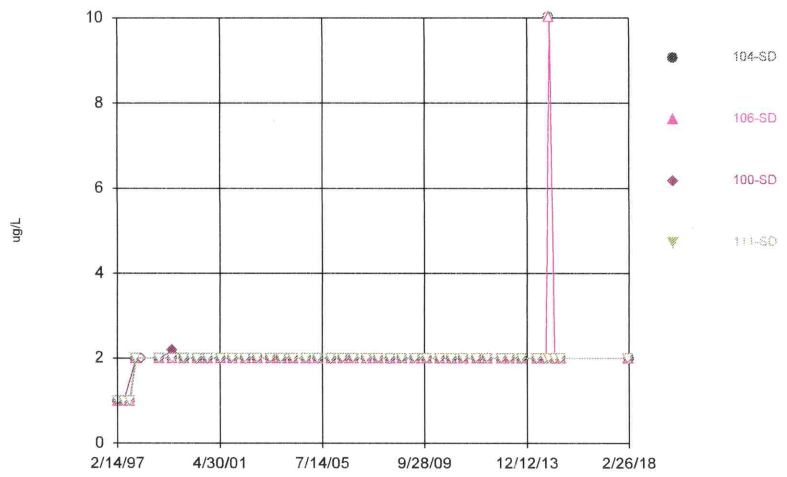
Time Series



Constituent: Barium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

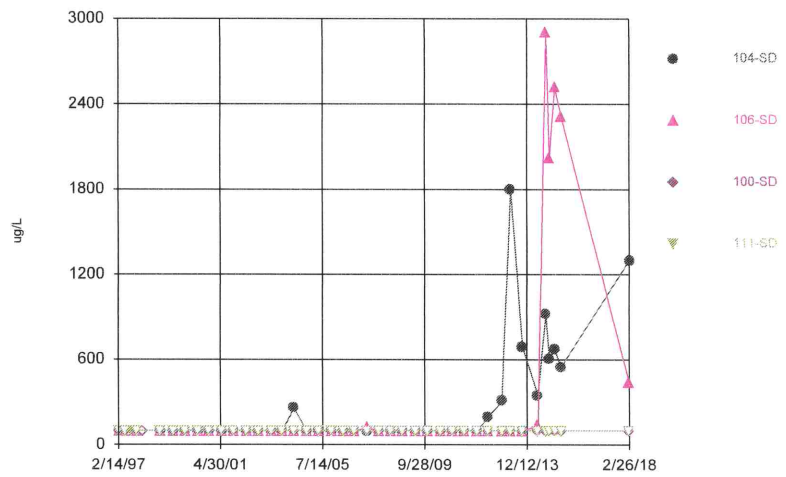
Time Series



Constituent: Beryllium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

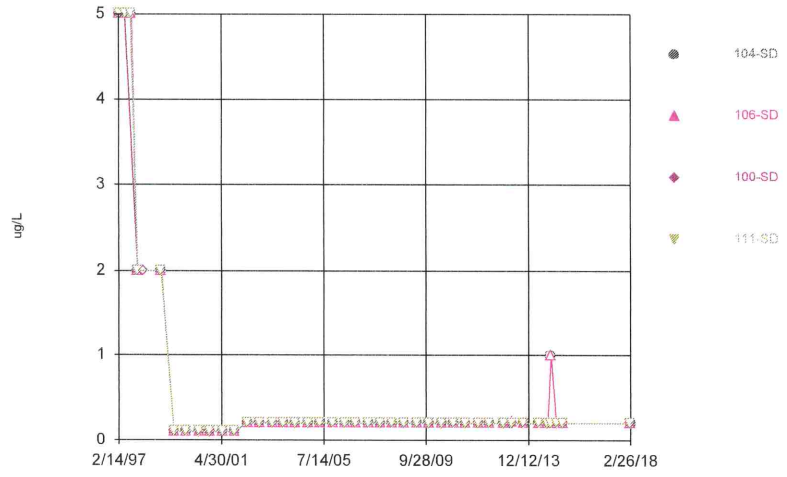
Time Series



Constituent: Boron Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

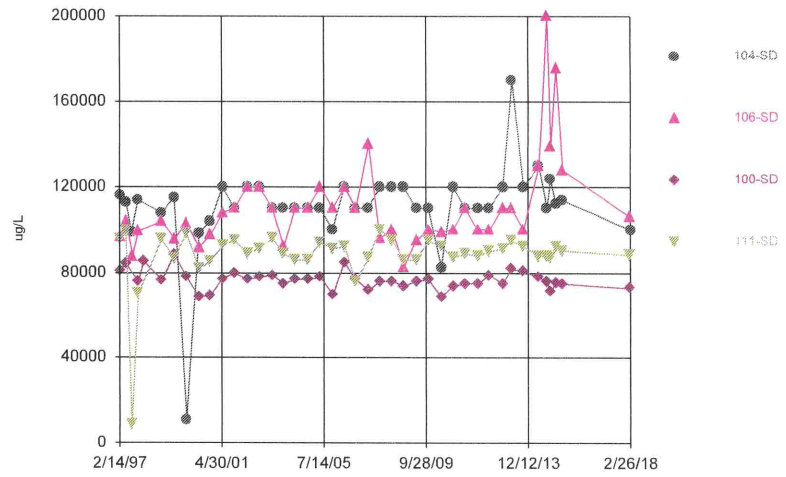
Time Series



Constituent: Cadmium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

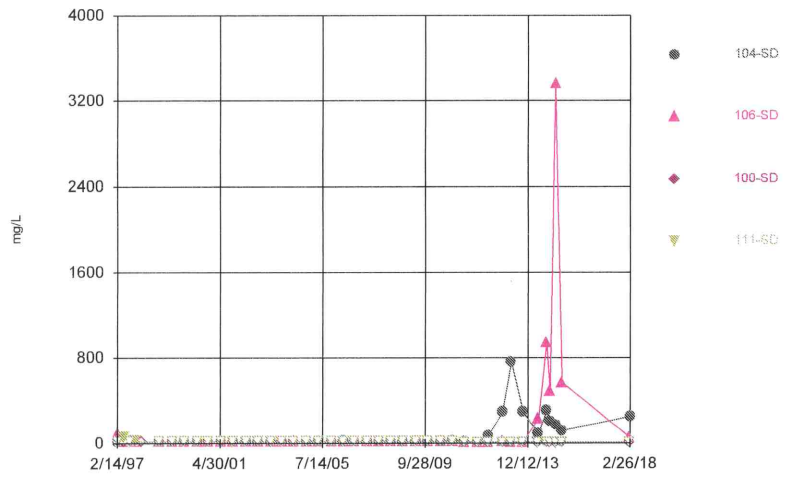
Time Series



Constituent: Calcium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

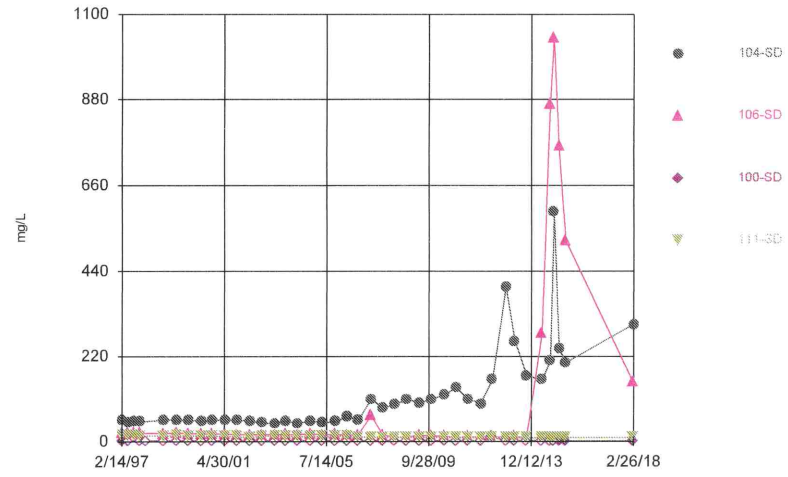
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

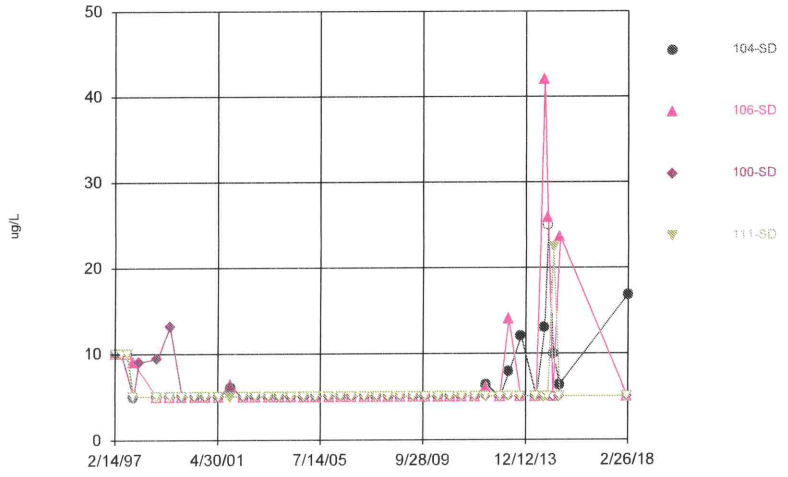
Time Series



Constituent: Chloride Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

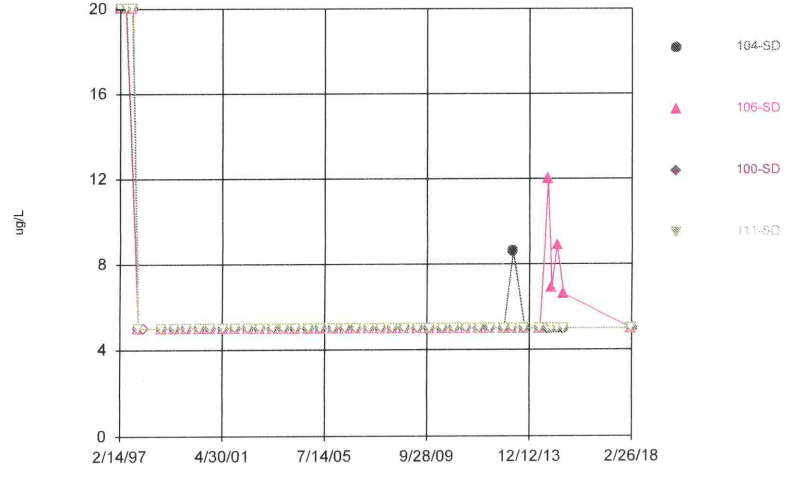
Time Series



Constituent: Chromium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

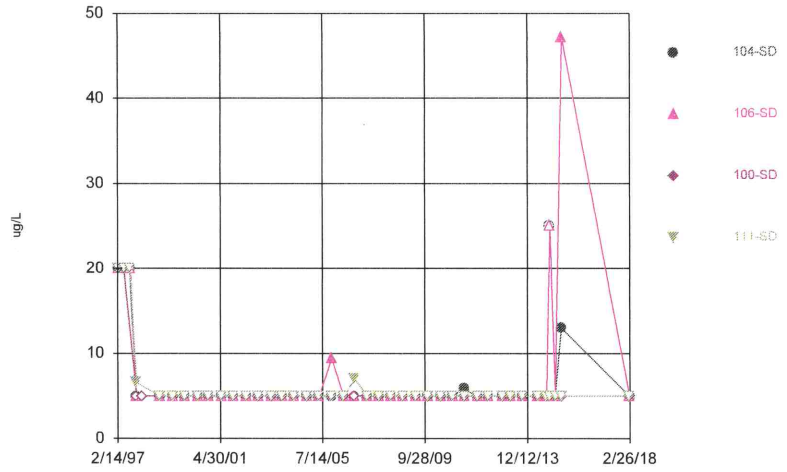
Time Series



Constituent: Cobalt Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

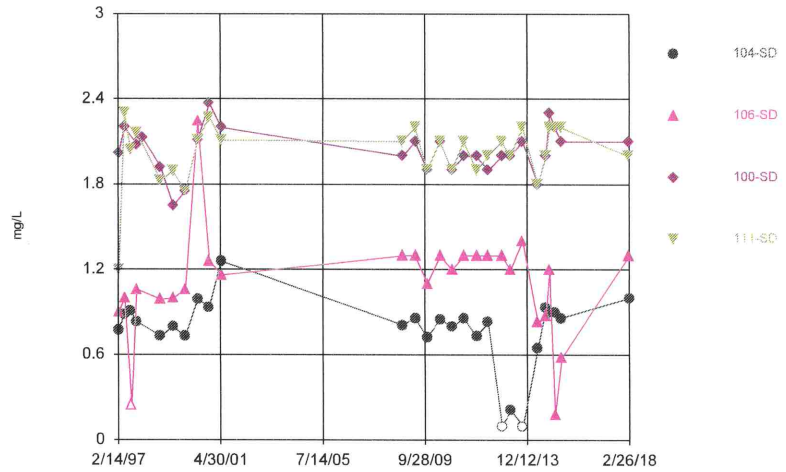
Time Series



Constituent: Copper Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

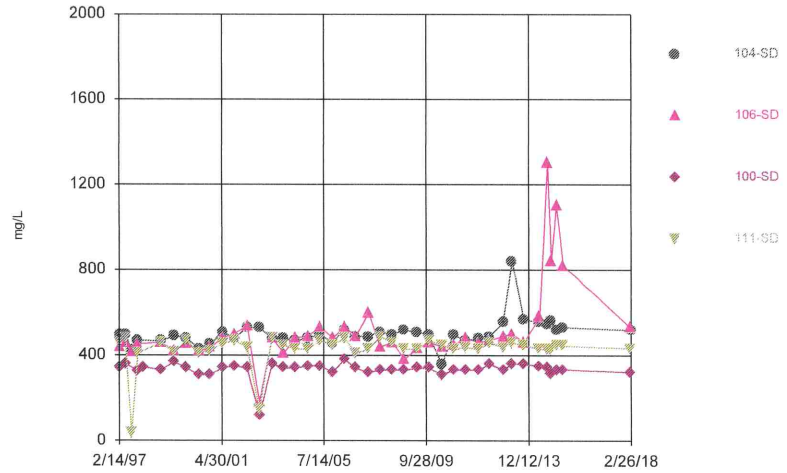
Time Series



Constituent: Fluoride Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

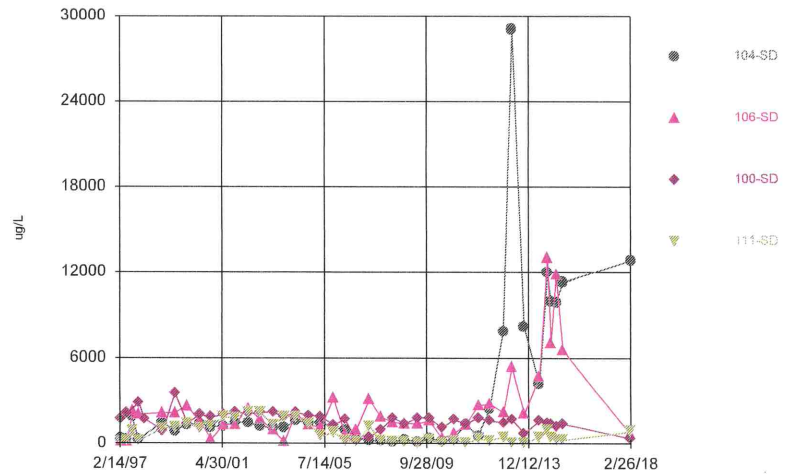
Time Series



Constituent: Hardness Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

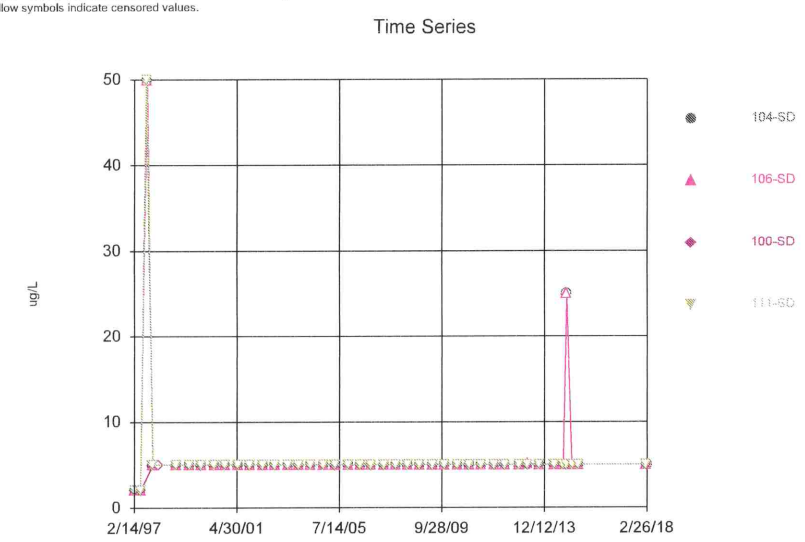
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

Time Series



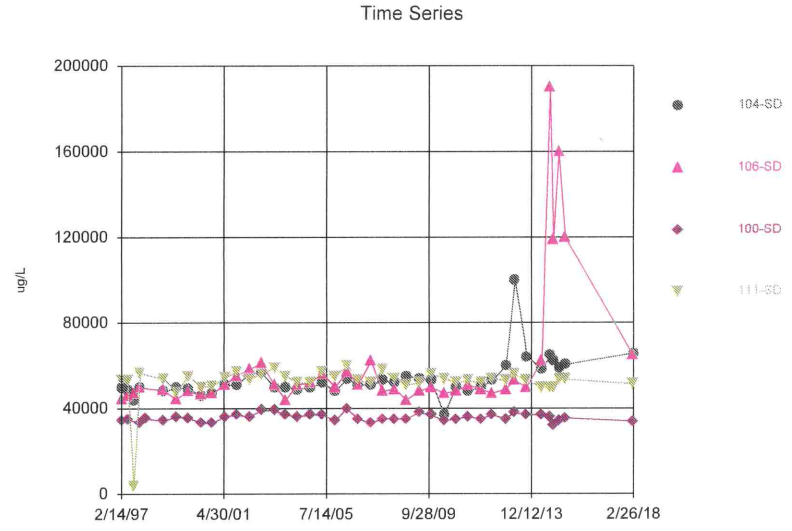
Constituent: Iron Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.



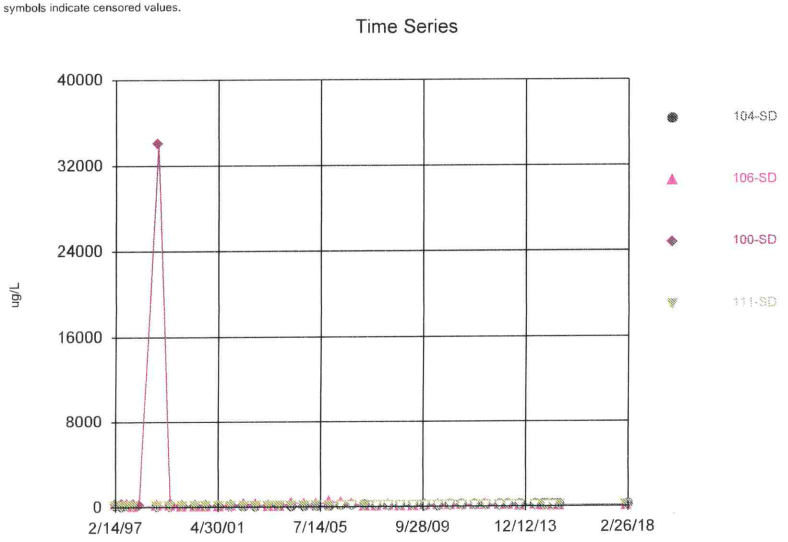
Constituent: Lead Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG



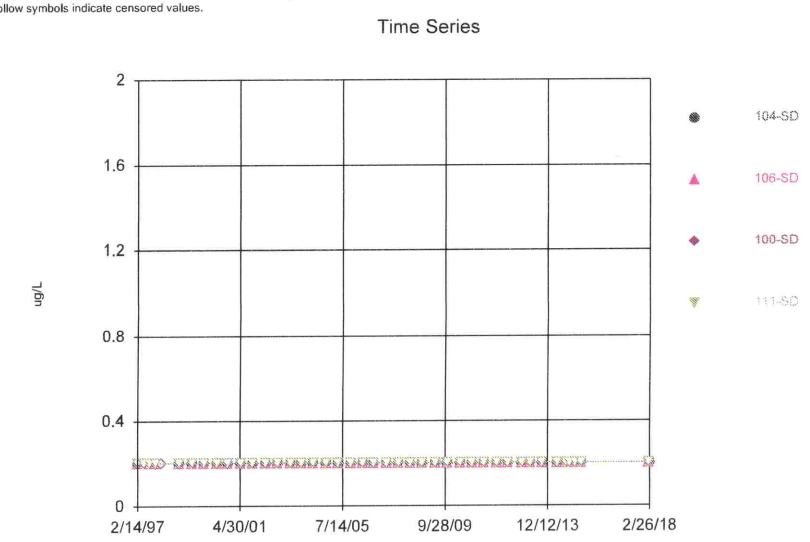
Constituent: Magnesium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.



Constituent: Manganese Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

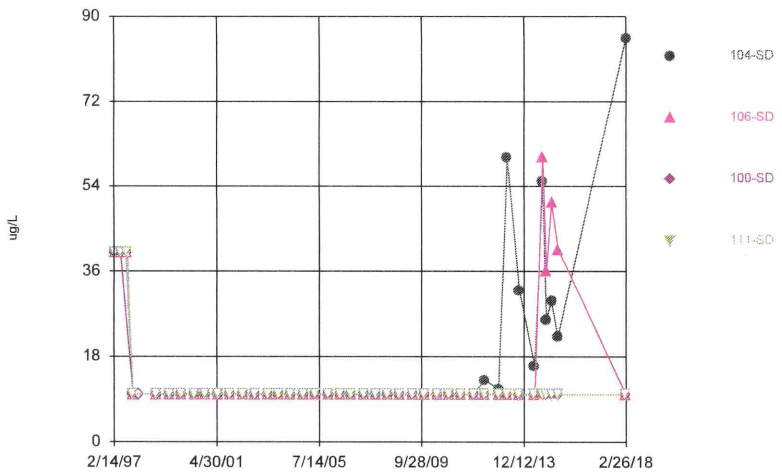
Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.



Constituent: Mercury Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

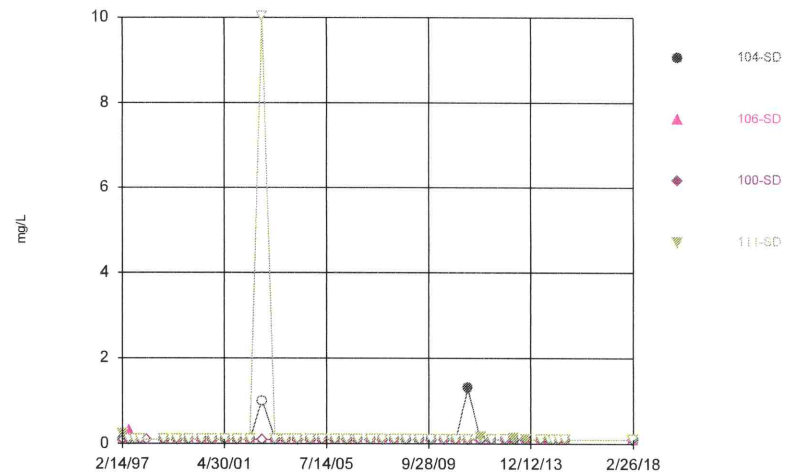
Time Series



Constituent: Nickel Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

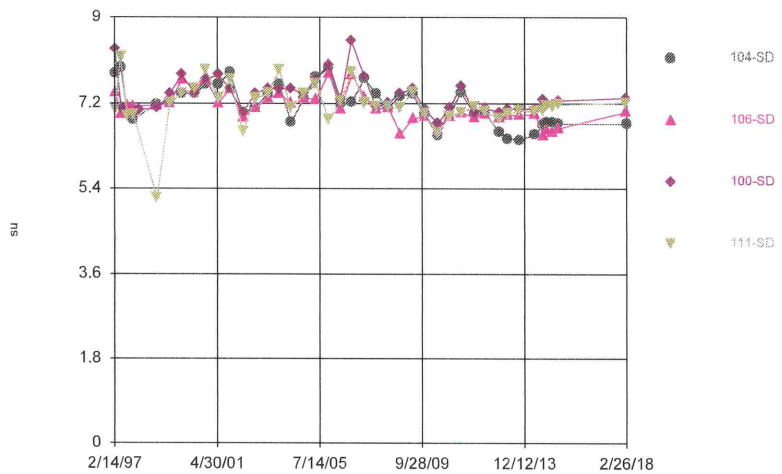
Time Series



Constituent: Nitrate/Nitrite Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG

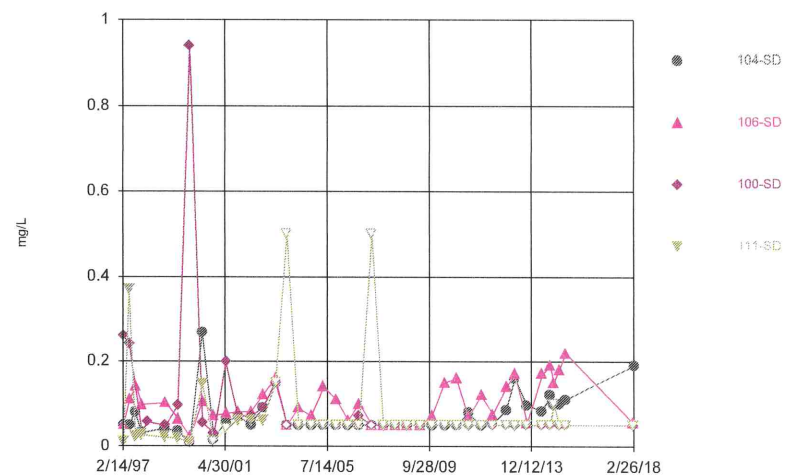
Time Series



Constituent: pH [Field] Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

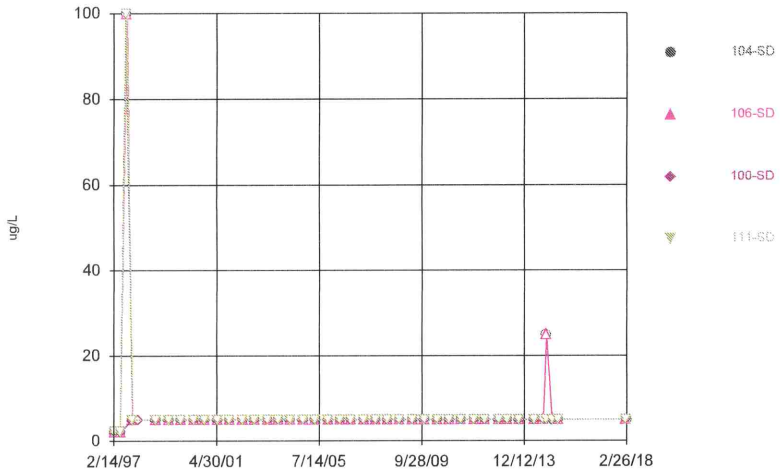
Time Series



Constituent: Phosphorus Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

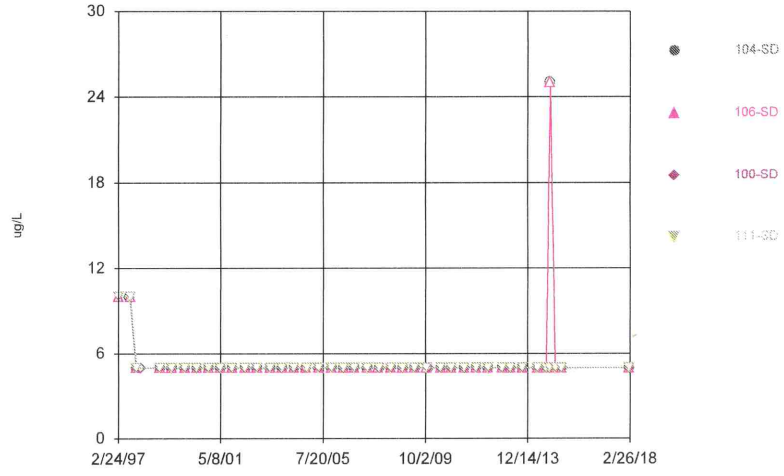
Time Series



Constituent: Selenium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

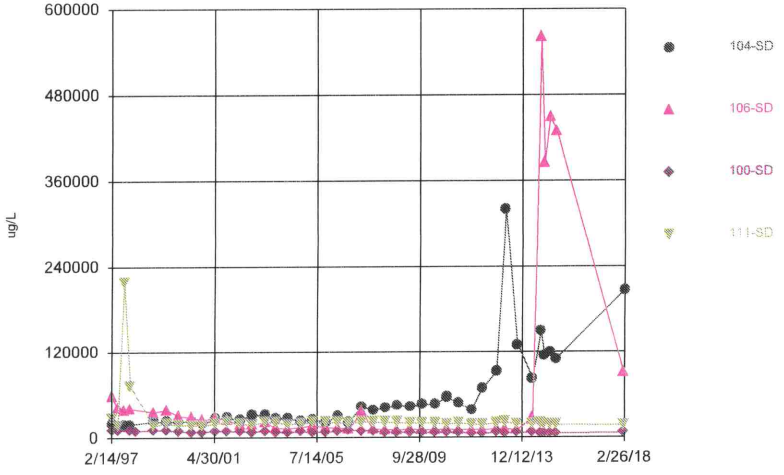
Time Series



Constituent: Silver Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

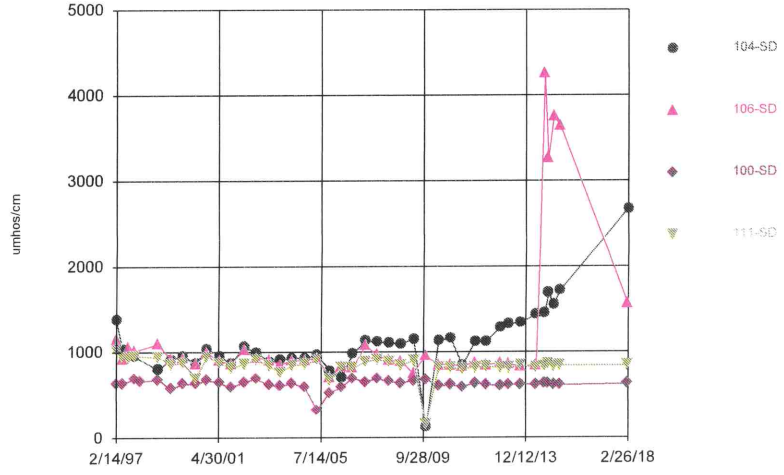
Time Series



Constituent: Sodium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

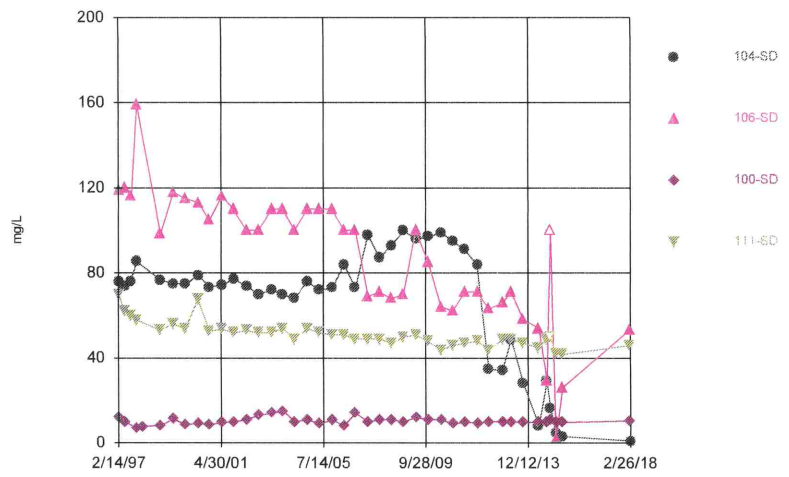
Time Series



Constituent: Specific Conductance [Field] Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

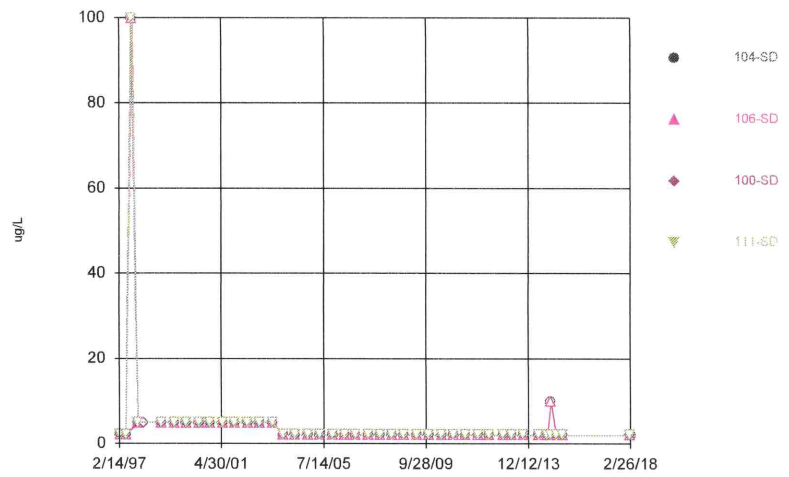
Time Series



Constituent: Sulfate Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

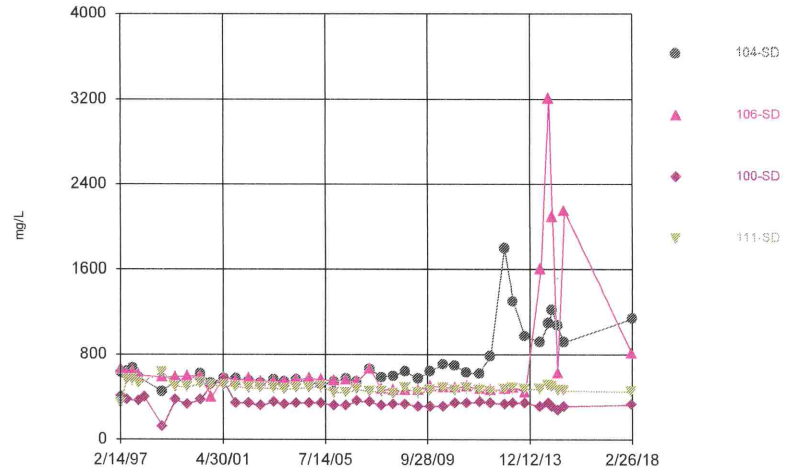
Time Series



Constituent: Thallium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG

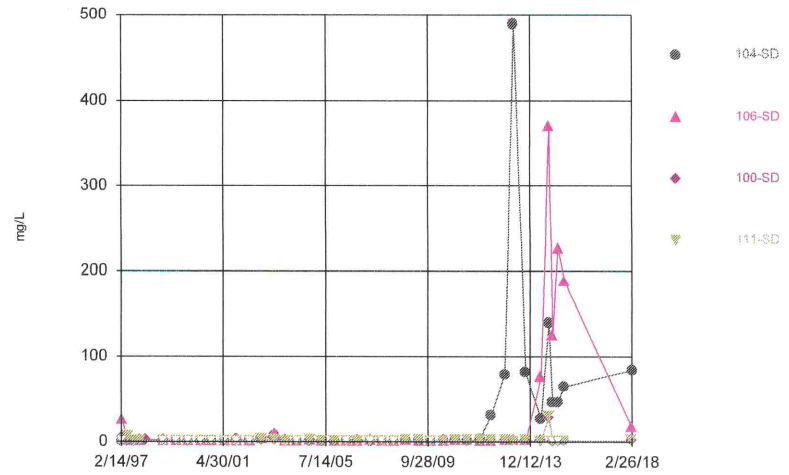
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

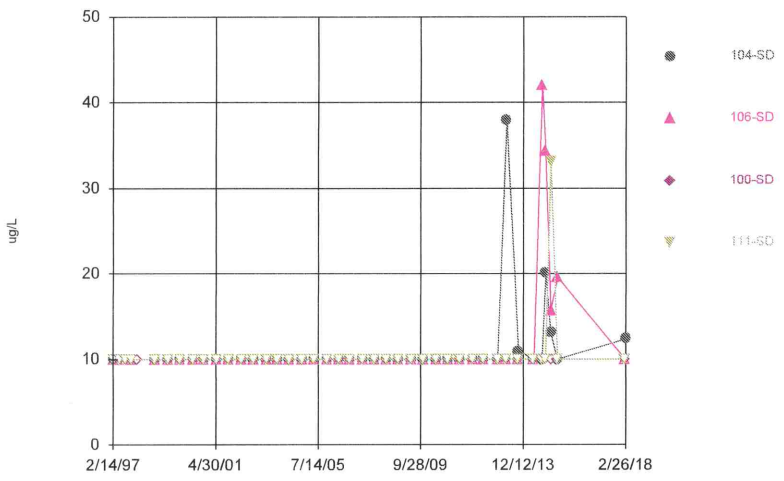
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

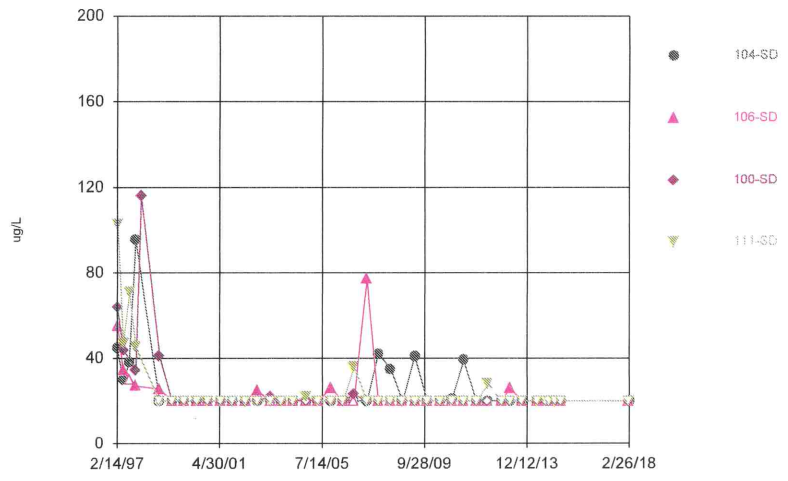
Time Series



Constituent: Vanadium Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

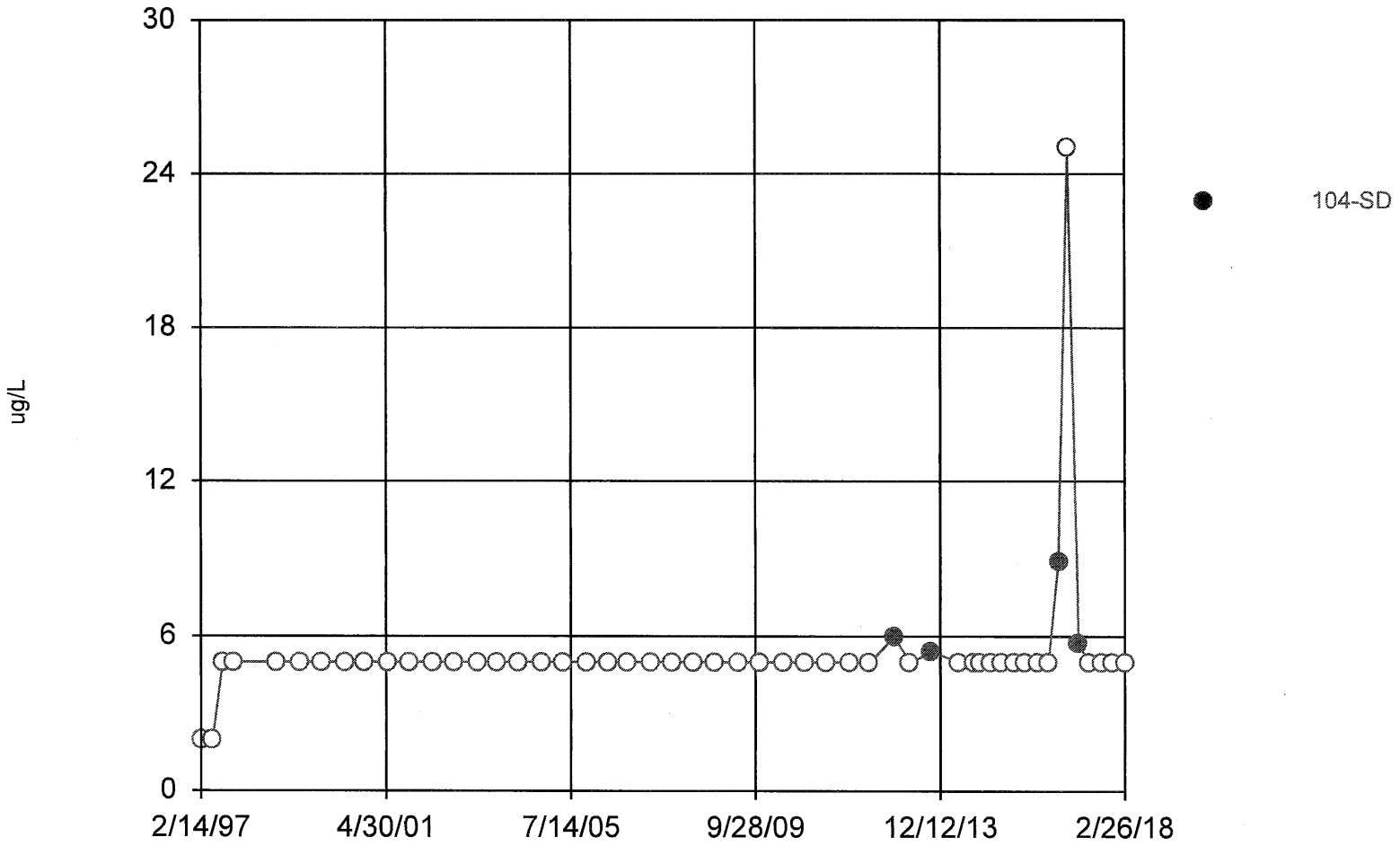
Time Series



Constituent: Zinc Total Analysis Run 4/13/2018 12:24 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

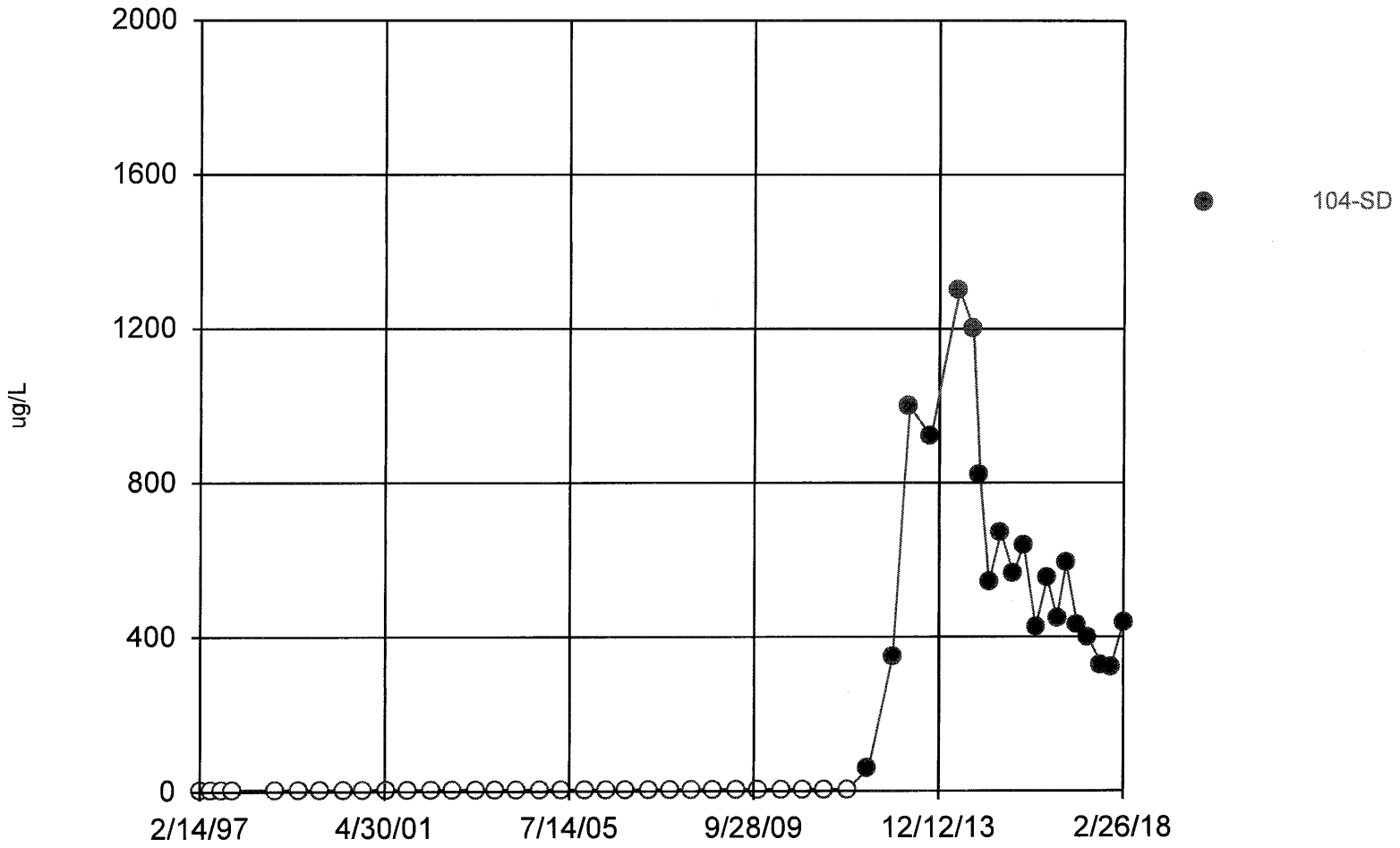


Constituent: 14-Dichlorobenzene Analysis Run 4/17/2018 10:58 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

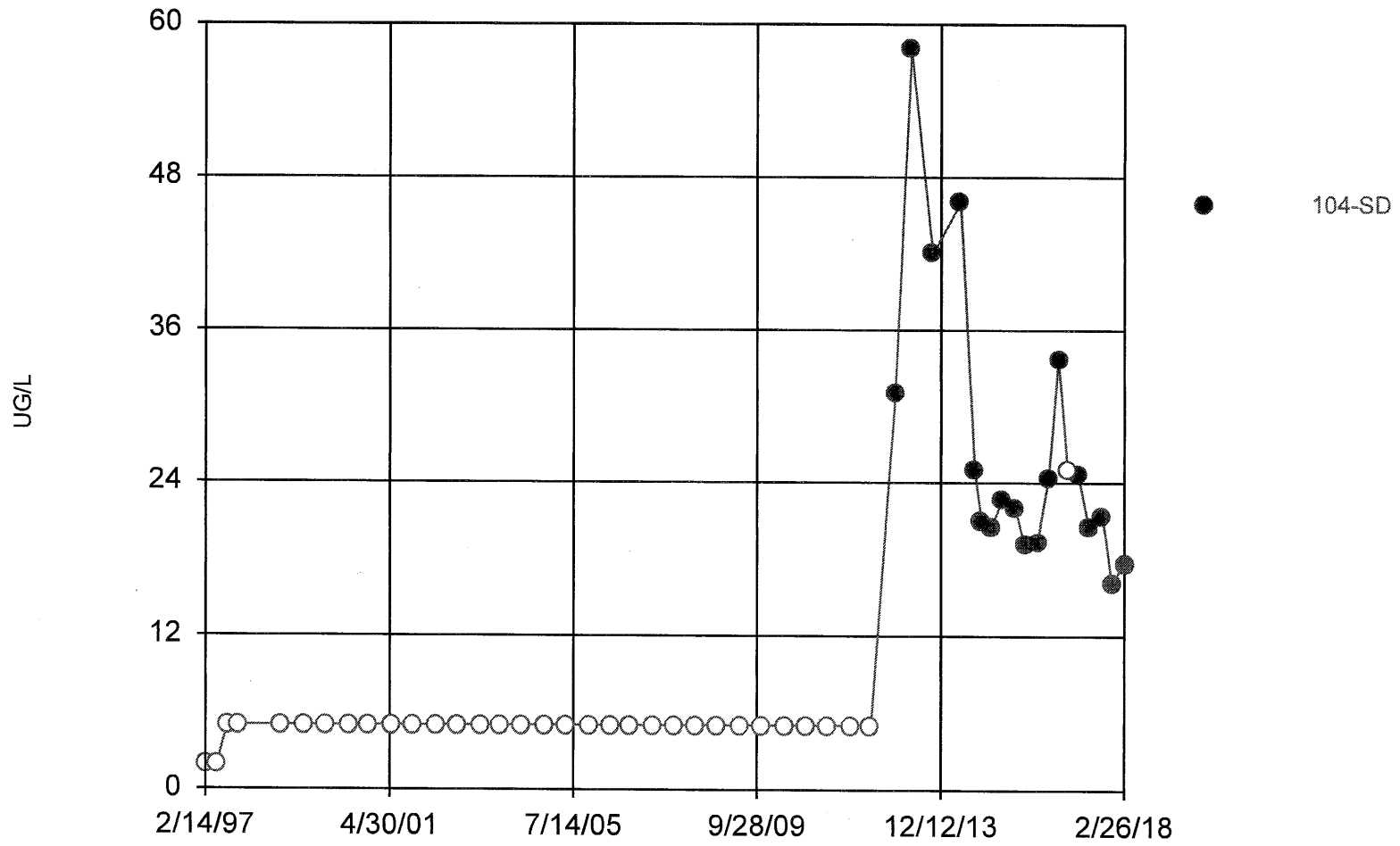


Constituent: Benzene Analysis Run 4/17/2018 10:58 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.6.05 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes [Total] Analysis Run 4/17/2018 10:58 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX F
LABORATORY ANALYTICAL REPORT

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 13, 2018

Environmental Manager
Bridgeton Landfill LLC
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Dear Environmental Manager:
Enclosed are the analytical results for sample(s) received by the laboratory between February 23, 2018 and February 27, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Sarkan
chris.sarkan@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. Steve Jett, Jett Environmental Consulting
Ms Dana Sincox, Republic Services, Inc
Trihydro, Trihydro
Mr. Jon Wilkinson, Feezor Engineering, Inc.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50190863001	**PZ-111-SS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SKK	1
		EPA 410.4	JRB	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863002	**PZ-111-SD**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863003	**PZ-109-SS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863004	**PZ-205-SS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	TMW	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863005	**PZ-106-SD**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863006	**PZ-106-SS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863007	**PZ-105-SS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SKK	1
		EPA 410.4	JRB	1
		EPA 353.2	GWA	1

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863008	**PZ-100-SD**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SCM	1
		EPA 410.4	JRB	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863009	**PZ-100-SS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SCM	1
		EPA 410.4	JRB	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863010	**PZ-201A-SS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SCM	1
		EPA 410.4	JRB	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863011	**PZ-115-SS**	EPA 9056	CPH	3

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SAMPLE ANALYTE COUNT

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SCM	1
		EPA 410.4	JRB	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863012	**PZ-114-AS**	EPA 9056	CPH	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	TMW	50
		SM 2540C	SCM	1
		EPA 410.4	JRB	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50190863013	**Trip Blank**	EPA 8260	TMW	50
50191007001	**Field Blank @ PZ-104-KS**	EPA 9056	CPH	3
		EPA 6010	JPK	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	RSW	50
		SM 2540C	WDB	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50191007002	**PZ-104-KS**	EPA 8260	RSW	4
50191007003	**PZ-104-SD**	EPA 9056	CPH	3
		EPA 6010	JPK	11
		EPA 6020	DMT	11

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SAMPLE ANALYTE COUNT

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470	JGJ	1
		EPA 8260	RSW	50
		SM 2540C	WDB	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50191007004	**PZ-104-SS**	EPA 9056	CPH	3
		EPA 6010	JPK	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	RSW	50
		SM 2540C	WDB	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50191007005	**PZ-104-SS DUP**	EPA 9056	CPH	3
		EPA 6010	JPK	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8260	RSW	50
		SM 2540C	WDB	1
		EPA 410.4	ZM	1
		EPA 353.2	GWA	1
		EPA 365.1	TPD	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	GWA	1
50191007006	**Trip Blank**	EPA 8260	RSW	50

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50190863001	**PZ-111-SS**					
	Field pH	6.97	Std. Units		02/20/18 10:46	
	Field Temperature	16.0	deg C		02/20/18 10:46	
	Field Specific Conductance	1670	umhos/cm		02/20/18 10:46	
	Field Oxidation Potential	-173	mV		02/20/18 10:46	
	Oxygen, Dissolved	0.92	mg/L		02/20/18 10:46	
	Field Turbidity	2.66	NTU		02/20/18 10:46	
	Elevation Water Level	428.14	ft/msl		02/20/18 10:46	
	Collar Elevation	464.63	ft/msl		02/20/18 10:46	
	Depth to Water	36.49	feet		02/20/18 10:46	
EPA 9056	Chloride	190	mg/L	25.0	02/28/18 22:57	
EPA 9056	Fluoride	0.53	mg/L	0.10	02/26/18 20:44	
EPA 9056	Sulfate	27.7	mg/L	2.5	02/28/18 22:40	
EPA 6010	Barium	310	ug/L	10.0	03/07/18 12:36	
EPA 6010	Boron	248	ug/L	100	03/07/18 12:36	
EPA 6010	Calcium	138000	ug/L	500	03/07/18 12:36	
EPA 6010	Iron	756	ug/L	50.0	03/07/18 12:36	
EPA 6010	Magnesium	74100	ug/L	500	03/07/18 12:36	
EPA 6010	Manganese	36.9	ug/L	5.0	03/07/18 12:36	
EPA 6010	Nickel	12.5	ug/L	10.0	03/07/18 12:36	
EPA 6010	Sodium	91200	ug/L	1000	03/07/18 12:36	
EPA 6010	Total Hardness by 2340B	650000	ug/L	1000	03/07/18 12:36	
SM 2540C	Total Dissolved Solids	868	mg/L	10.0	02/24/18 11:16	
EPA 410.4	Chemical Oxygen Demand	37.7	mg/L	10.0	02/26/18 13:36	
SM 4500-NH3 G	Nitrogen, Ammonia	0.38	mg/L	0.10	02/26/18 12:21	
SM 5310C	Total Organic Carbon	12.7	mg/L	1.0	03/02/18 06:02	
50190863002	**PZ-111-SD**					
	Field pH	7.22	Std. Units		02/20/18 11:36	
	Field Temperature	16.7	deg C		02/20/18 11:36	
	Field Specific Conductance	842	umhos/cm		02/20/18 11:36	
	Field Oxidation Potential	16	mV		02/20/18 11:36	
	Oxygen, Dissolved	3.50	mg/L		02/20/18 11:36	
	Field Turbidity	0.89	NTU		02/20/18 11:36	
	Elevation Water Level	428.66	ft/msl		02/20/18 11:36	
	Collar Elevation	466.46	ft/msl		02/20/18 11:36	
	Depth to Water	37.80	feet		02/20/18 11:36	
EPA 9056	Chloride	10.6	mg/L	0.25	02/28/18 23:14	
EPA 9056	Fluoride	2.0	mg/L	0.10	02/28/18 23:14	
EPA 9056	Sulfate	46.1	mg/L	2.5	02/28/18 23:32	
EPA 6010	Barium	106	ug/L	10.0	03/07/18 12:38	
EPA 6010	Calcium	88400	ug/L	500	03/07/18 12:38	
EPA 6010	Iron	840	ug/L	50.0	03/07/18 12:38	
EPA 6010	Magnesium	51700	ug/L	500	03/07/18 12:38	
EPA 6010	Manganese	9.9	ug/L	5.0	03/07/18 12:38	
EPA 6010	Sodium	18100	ug/L	1000	03/07/18 12:38	
EPA 6010	Total Hardness by 2340B	434000	ug/L	1000	03/07/18 12:38	
SM 2540C	Total Dissolved Solids	449	mg/L	10.0	02/24/18 11:17	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	03/02/18 08:16	

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50190863003	**PZ-109-SS**					
	Field pH	7.12	Std. Units		02/21/18 08:50	
	Field Temperature	18.8	deg C		02/21/18 08:50	
	Field Specific Conductance	798	umhos/cm		02/21/18 08:50	
	Field Oxidation Potential	100	mV		02/21/18 08:50	
	Oxygen, Dissolved	1.13	mg/L		02/21/18 08:50	
	Field Turbidity	0.97	NTU		02/21/18 08:50	
	Elevation Water Level	437.87	ft/msl		02/21/18 08:50	
	Collar Elevation	460.19	ft/msl		02/21/18 08:50	
	Depth to Water	22.32	feet		02/21/18 08:50	
EPA 9056	Chloride	3.9	mg/L	0.25	02/28/18 23:49	
EPA 9056	Fluoride	2.4	mg/L	0.10	02/28/18 23:49	
EPA 9056	Sulfate	23.3	mg/L	0.25	02/28/18 23:49	
EPA 6010	Barium	60.2	ug/L	10.0	03/07/18 12:40	
EPA 6010	Boron	180	ug/L	100	03/07/18 12:40	
EPA 6010	Calcium	89400	ug/L	500	03/07/18 12:40	
EPA 6010	Magnesium	51700	ug/L	500	03/07/18 12:40	
EPA 6010	Sodium	9840	ug/L	1000	03/07/18 12:40	
EPA 6010	Total Hardness by 2340B	436000	ug/L	1000	03/07/18 12:40	
SM 2540C	Total Dissolved Solids	391	mg/L	10.0	02/24/18 11:20	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	03/02/18 08:39	
50190863004	**PZ-205-SS**					
	Field pH	7.12	Std. Units		02/21/18 10:05	
	Field Temperature	18.0	deg C		02/21/18 10:05	
	Field Specific Conductance	896	umhos/cm		02/21/18 10:05	
	Field Oxidation Potential	127	mV		02/21/18 10:05	
	Oxygen, Dissolved	2.63	mg/L		02/21/18 10:05	
	Field Turbidity	1.30	NTU		02/21/18 10:05	
	Elevation Water Level	429.59	ft/msl		02/21/18 10:05	
	Collar Elevation	465.18	ft/msl		02/21/18 10:05	
	Depth to Water	35.59	feet		02/21/18 10:05	
EPA 9056	Chloride	31.5	mg/L	2.5	03/01/18 00:07	
EPA 9056	Fluoride	0.42	mg/L	0.10	02/26/18 21:39	
EPA 9056	Sulfate	52.5	mg/L	2.5	03/01/18 00:07	
EPA 6010	Barium	142	ug/L	10.0	03/07/18 12:43	
EPA 6010	Calcium	96900	ug/L	500	03/07/18 12:43	
EPA 6010	Magnesium	55500	ug/L	500	03/07/18 12:43	
EPA 6010	Sodium	15700	ug/L	1000	03/07/18 12:43	
EPA 6010	Total Hardness by 2340B	471000	ug/L	1000	03/07/18 12:43	
SM 2540C	Total Dissolved Solids	487	mg/L	10.0	02/24/18 11:20	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	03/02/18 09:10	
50190863005	**PZ-106-SD**					
	Field pH	7.02	Std. Units		02/21/18 11:58	
	Field Temperature	21.2	deg C		02/21/18 11:58	
	Field Specific Conductance	1569	umhos/cm		02/21/18 11:58	
	Field Oxidation Potential	-148	mV		02/21/18 11:58	
	Oxygen, Dissolved	7.28	mg/L		02/21/18 11:58	

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50190863005	**PZ-106-SD**					
	Field Turbidity	2.06	NTU		02/21/18 11:58	
	Elevation Water Level	448.14	ft/msl		02/21/18 11:58	
	Collar Elevation	463.36	ft/msl		02/21/18 11:58	
	Depth to Water	15.22	feet		02/21/18 11:58	
EPA 9056	Chloride	154	mg/L	25.0	03/01/18 00:41	
EPA 9056	Fluoride	1.3	mg/L	0.10	02/26/18 21:58	
EPA 9056	Sulfate	53.4	mg/L	2.5	03/01/18 00:24	
EPA 6010	Barium	304	ug/L	10.0	03/07/18 12:45	
EPA 6010	Boron	441	ug/L	100	03/07/18 12:45	
EPA 6010	Calcium	106000	ug/L	500	03/07/18 12:45	
EPA 6010	Iron	679	ug/L	50.0	03/07/18 12:45	
EPA 6010	Magnesium	64700	ug/L	500	03/07/18 12:45	
EPA 6010	Manganese	23.4	ug/L	5.0	03/07/18 12:45	
EPA 6010	Sodium	90400	ug/L	1000	03/07/18 12:45	
EPA 6010	Total Hardness by 2340B	531000	ug/L	1000	03/07/18 12:45	
SM 2540C	Total Dissolved Solids	809	mg/L	10.0	02/24/18 11:26	
EPA 410.4	Chemical Oxygen Demand	54.1	mg/L	10.0	02/27/18 15:28	
EPA 365.1	Phosphorus	0.054	mg/L	0.050	03/01/18 10:47	
SM 4500-NH3 G	Nitrogen, Ammonia	20.1	mg/L	0.50	02/26/18 12:54	
SM 5310C	Total Organic Carbon	17.6	mg/L	1.0	03/02/18 09:34	
50190863006	**PZ-106-SS**					
	Field pH	6.99	Std. Units		02/21/18 13:52	
	Field Temperature	20.8	deg C		02/21/18 13:52	
	Field Specific Conductance	1101	umhos/cm		02/21/18 13:52	
	Field Oxidation Potential	-135	mV		02/21/18 13:52	
	Oxygen, Dissolved	1.11	mg/L		02/21/18 13:52	
	Field Turbidity	2.02	NTU		02/21/18 13:52	
	Elevation Water Level	447.86	ft/msl		02/21/18 13:52	
	Collar Elevation	462.71	ft/msl		02/21/18 13:52	
	Depth to Water	14.75	feet		02/21/18 13:52	
EPA 9056	Chloride	57.6	mg/L	2.5	03/01/18 01:33	
EPA 9056	Fluoride	1.8	mg/L	0.10	02/26/18 22:52	
EPA 9056	Sulfate	43.6	mg/L	2.5	03/01/18 01:33	
EPA 6010	Barium	207	ug/L	10.0	03/07/18 12:47	
EPA 6010	Calcium	111000	ug/L	500	03/07/18 12:47	
EPA 6010	Iron	2860	ug/L	50.0	03/07/18 12:47	
EPA 6010	Magnesium	54700	ug/L	500	03/07/18 12:47	
EPA 6010	Manganese	15.8	ug/L	5.0	03/07/18 12:47	
EPA 6010	Sodium	41700	ug/L	1000	03/07/18 12:47	
EPA 6010	Total Hardness by 2340B	503000	ug/L	1000	03/07/18 12:47	
SM 2540C	Total Dissolved Solids	595	mg/L	10.0	02/24/18 11:26	
EPA 410.4	Chemical Oxygen Demand	22.8	mg/L	10.0	02/27/18 15:28	
SM 4500-NH3 G	Nitrogen, Ammonia	0.19	mg/L	0.10	02/26/18 12:55	
SM 5310C	Total Organic Carbon	8.7	mg/L	1.0	03/02/18 09:57	
50190863007	**PZ-105-SS**					
	Field pH	7.16	Std. Units		02/21/18 15:16	

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50190863007	**PZ-105-SS**					
	Field Temperature	19.4	deg C		02/21/18 15:16	
	Field Specific Conductance	1079	umhos/cm		02/21/18 15:16	
	Field Oxidation Potential	-30	mV		02/21/18 15:16	
	Oxygen, Dissolved	1.19	mg/L		02/21/18 15:16	
	Field Turbidity	1.92	NTU		02/21/18 15:16	
	Elevation Water Level	459.47	ft/msl		02/21/18 15:16	
	Collar Elevation	483.51	ft/msl		02/21/18 15:16	
	Depth to Water	24.04	feet		02/21/18 15:16	
EPA 9056	Chloride	76.1	mg/L	2.5	03/01/18 16:37	
EPA 9056	Fluoride	0.42	mg/L	0.10	03/01/18 01:51	
EPA 9056	Sulfate	46.9	mg/L	2.5	03/01/18 16:37	
EPA 6010	Barium	180	ug/L	10.0	03/07/18 12:50	
EPA 6010	Calcium	103000	ug/L	500	03/07/18 12:50	
EPA 6010	Iron	1650	ug/L	50.0	03/07/18 12:50	
EPA 6010	Magnesium	54000	ug/L	500	03/07/18 12:50	
EPA 6010	Manganese	88.8	ug/L	5.0	03/07/18 12:50	
EPA 6010	Sodium	42100	ug/L	1000	03/07/18 12:50	
EPA 6010	Total Hardness by 2340B	479000	ug/L	1000	03/07/18 12:50	
SM 2540C	Total Dissolved Solids	581	mg/L	10.0	02/24/18 11:26	
SM 5310C	Total Organic Carbon	4.0	mg/L	1.0	03/02/18 10:20	
50190863008	**PZ-100-SD**					
	Field pH	7.32	Std. Units		02/22/18 10:15	
	Field Temperature	15.2	deg C		02/22/18 10:15	
	Field Specific Conductance	627	umhos/cm		02/22/18 10:15	
	Field Oxidation Potential	-31	mV		02/22/18 10:15	
	Oxygen, Dissolved	0.78	mg/L		02/22/18 10:15	
	Field Turbidity	2.58	NTU		02/22/18 10:15	
	Elevation Water Level	453.16	ft/msl		02/22/18 10:15	
	Collar Elevation	485.72	ft/msl		02/22/18 10:15	
	Depth to Water	35.56	feet		02/22/18 10:15	
EPA 9056	Chloride	1.7	mg/L	0.25	03/01/18 02:08	
EPA 9056	Fluoride	2.1	mg/L	0.10	03/01/18 02:08	
EPA 9056	Sulfate	10.4	mg/L	0.25	03/01/18 02:08	
EPA 6010	Barium	312	ug/L	10.0	03/07/18 13:38	
EPA 6010	Calcium	73000	ug/L	500	03/07/18 13:38	
EPA 6010	Iron	401	ug/L	50.0	03/07/18 13:38	
EPA 6010	Magnesium	33900	ug/L	500	03/07/18 13:38	
EPA 6010	Manganese	38.5	ug/L	5.0	03/07/18 13:38	
EPA 6010	Sodium	6730	ug/L	1000	03/07/18 13:38	
EPA 6010	Total Hardness by 2340B	322000	ug/L	1000	03/07/18 13:38	
SM 2540C	Total Dissolved Solids	325	mg/L	10.0	02/27/18 09:46	
SM 4500-NH3 G	Nitrogen, Ammonia	0.25	mg/L	0.10	02/26/18 12:36	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	03/02/18 10:51	
50190863009	**PZ-100-SS**					
	Field pH	7.18	Std. Units		02/22/18 10:49	
	Field Temperature	15.6	deg C		02/22/18 10:49	

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50190863009	**PZ-100-SS**					
	Field Specific Conductance	814	umhos/cm		02/22/18 10:49	
	Field Oxidation Potential	155	mV		02/22/18 10:49	
	Oxygen, Dissolved	3.98	mg/L		02/22/18 10:49	
	Field Turbidity	0.01	NTU		02/22/18 10:49	
	Elevation Water Level	456.01	ft/msl		02/22/18 10:49	
	Collar Elevation	485.75	ft/msl		02/22/18 10:49	
	Depth to Water	29.74	feet		02/22/18 10:49	
EPA 9056	Chloride	3.9	mg/L	0.25	03/01/18 02:43	
EPA 9056	Fluoride	0.62	mg/L	0.10	03/01/18 02:43	
EPA 9056	Sulfate	34.3	mg/L	2.5	03/01/18 03:00	
EPA 6010	Barium	66.6	ug/L	10.0	03/07/18 13:40	
EPA 6010	Boron	109	ug/L	100	03/07/18 13:40	
EPA 6010	Calcium	88500	ug/L	500	03/07/18 13:40	
EPA 6010	Magnesium	50800	ug/L	500	03/07/18 13:40	
EPA 6010	Nickel	10.3	ug/L	10.0	03/07/18 13:40	
EPA 6010	Sodium	10000	ug/L	1000	03/07/18 13:40	
EPA 6010	Total Hardness by 2340B	430000	ug/L	1000	03/07/18 13:40	
SM 2540C	Total Dissolved Solids	430	mg/L	10.0	02/27/18 09:46	
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	03/02/18 11:22	
50190863010	**PZ-201A-SS**					
	Field pH	7.22	Std. Units		02/22/18 11:30	
	Field Temperature	16.0	deg C		02/22/18 11:30	
	Field Specific Conductance	788	umhos/cm		02/22/18 11:30	
	Field Oxidation Potential	211	mV		02/22/18 11:30	
	Oxygen, Dissolved	4.67	mg/L		02/22/18 11:30	
	Field Turbidity	1.60	NTU		02/22/18 11:30	
	Elevation Water Level	465.95	ft/msl		02/22/18 11:30	
	Collar Elevation	480.20	ft/msl		02/22/18 11:30	
	Depth to Water	14.25	feet		02/22/18 11:30	
EPA 9056	Chloride	4.1	mg/L	0.25	03/01/18 03:18	
EPA 9056	Fluoride	0.37	mg/L	0.10	03/01/18 03:18	
EPA 9056	Sulfate	63.2	mg/L	2.5	03/01/18 03:35	
EPA 6010	Barium	126	ug/L	10.0	03/07/18 13:42	
EPA 6010	Calcium	90600	ug/L	500	03/07/18 13:42	
EPA 6010	Magnesium	45200	ug/L	500	03/07/18 13:42	
EPA 6010	Sodium	11100	ug/L	1000	03/07/18 13:42	
EPA 6010	Total Hardness by 2340B	412000	ug/L	1000	03/07/18 13:42	
SM 2540C	Total Dissolved Solids	468	mg/L	10.0	02/27/18 09:47	
EPA 353.2	Nitrogen, NO2 plus NO3	0.34	mg/L	0.10	02/26/18 12:33	
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	03/02/18 11:53	
50190863011	**PZ-115-SS**					
	Field pH	6.68	Std. Units		02/22/18 13:30	
	Field Temperature	15.2	deg C		02/22/18 13:30	
	Field Specific Conductance	2740	umhos/cm		02/22/18 13:30	
	Field Oxidation Potential	-26	mV		02/22/18 13:30	
	Oxygen, Dissolved	0.73	mg/L		02/22/18 13:30	

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50190863011	**PZ-115-SS**					
	Field Turbidity	0.57	NTU		02/22/18 13:30	
	Elevation Water Level	436.36	ft/msl		02/22/18 13:30	
	Collar Elevation	452.27	ft/msl		02/22/18 13:30	
	Depth to Water	15.91	feet		02/22/18 13:30	
EPA 9056	Chloride	500	mg/L	25.0	03/01/18 03:52	
EPA 9056	Fluoride	0.34	mg/L	0.10	02/27/18 00:24	
EPA 9056	Sulfate	2.9	mg/L	0.25	02/27/18 00:24	
EPA 6010	Barium	509	ug/L	10.0	03/07/18 13:45	
EPA 6010	Boron	465	ug/L	100	03/07/18 13:45	
EPA 6010	Calcium	219000	ug/L	2500	03/07/18 14:19	
EPA 6010	Cobalt	30.9	ug/L	5.0	03/07/18 13:45	
EPA 6010	Iron	2970	ug/L	50.0	03/07/18 13:45	
EPA 6010	Magnesium	102000	ug/L	500	03/07/18 13:45	
EPA 6010	Manganese	77.1	ug/L	5.0	03/07/18 13:45	
EPA 6010	Nickel	70.8	ug/L	10.0	03/07/18 13:45	
EPA 6010	Sodium	189000	ug/L	1000	03/07/18 13:45	
EPA 6010	Total Hardness by 2340B	968000	ug/L	5000	03/07/18 14:19	
EPA 6010	Zinc	22.2	ug/L	20.0	03/07/18 13:45	
EPA 6020	Arsenic	5.9	ug/L	5.0	03/01/18 04:23	
SM 2540C	Total Dissolved Solids	1580	mg/L	10.0	02/27/18 09:47	
EPA 410.4	Chemical Oxygen Demand	32.9	mg/L	10.0	02/26/18 15:21	
EPA 365.1	Phosphorus	0.25	mg/L	0.050	03/01/18 10:51	
SM 4500-NH3 G	Nitrogen, Ammonia	1.7	mg/L	0.10	02/26/18 12:39	
SM 5310C	Total Organic Carbon	11.2	mg/L	4.0	03/12/18 11:34	
50190863012	**PZ-114-AS**					
	Field pH	6.64	Std. Units		02/22/18 14:01	
	Field Temperature	15.8	deg C		02/22/18 14:01	
	Field Specific Conductance	2390	umhos/cm		02/22/18 14:01	
	Field Oxidation Potential	-112	mV		02/22/18 14:01	
	Oxygen, Dissolved	0.44	mg/L		02/22/18 14:01	
	Field Turbidity	1.06	NTU		02/22/18 14:01	
	Elevation Water Level	428.44	ft/msl		02/22/18 14:01	
	Collar Elevation	451.26	ft/msl		02/22/18 14:01	
	Depth to Water	22.82	feet		02/22/18 14:01	
EPA 9056	Chloride	325	mg/L	25.0	03/01/18 04:10	
EPA 9056	Fluoride	0.16	mg/L	0.10	02/27/18 00:42	
EPA 6010	Barium	1210	ug/L	10.0	03/07/18 13:47	
EPA 6010	Boron	268	ug/L	100	03/07/18 13:47	
EPA 6010	Calcium	214000	ug/L	2500	03/07/18 14:21	
EPA 6010	Iron	67800	ug/L	50.0	03/07/18 13:47	
EPA 6010	Magnesium	65900	ug/L	500	03/07/18 13:47	
EPA 6010	Manganese	2680	ug/L	5.0	03/07/18 13:47	
EPA 6010	Sodium	122000	ug/L	1000	03/07/18 13:47	
EPA 6010	Total Hardness by 2340B	806000	ug/L	5000	03/07/18 14:21	
EPA 6020	Arsenic	66.3	ug/L	5.0	03/01/18 04:28	
EPA 8260	Benzene	19.3	ug/L	5.0	02/28/18 05:12	
EPA 8260	Chlorobenzene	102	ug/L	5.0	02/28/18 05:12	

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50190863012	**PZ-114-AS**					
EPA 8260	1,4-Dichlorobenzene	6.4	ug/L	5.0	02/28/18 05:12	
SM 2540C	Total Dissolved Solids	1310	mg/L	10.0	02/28/18 09:12	
EPA 410.4	Chemical Oxygen Demand	41.5	mg/L	10.0	02/26/18 15:21	
EPA 365.1	Phosphorus	2.1	mg/L	0.25	03/01/18 11:08	
SM 4500-NH3 G	Nitrogen, Ammonia	7.6	mg/L	0.10	02/26/18 12:40	
SM 5310C	Total Organic Carbon	12.2	mg/L	4.0	03/12/18 11:51	
50191007002	**PZ-104-KS**					
	Field pH	7.16	Std. Units		02/26/18 10:30	
	Field Temperature	24.6	deg C		02/26/18 10:30	
	Field Specific Conductance	806	umhos/cm		02/26/18 10:30	
	Field Oxidation Potential	-98	mV		02/26/18 10:30	
	Oxygen, Dissolved	0.62	mg/L		02/26/18 10:30	
	Field Turbidity	1.10	NTU		02/26/18 10:30	
	Elevation Water Level	466.40	ft/msl		02/26/18 10:30	
	Collar Elevation	483.95	ft/msl		02/26/18 10:30	
	Depth to Water	17.55	feet		02/26/18 10:30	
EPA 8260	Benzene	7.8	ug/L	5.0	03/07/18 08:29	
50191007003	**PZ-104-SD**					
	Field pH	6.77	Std. Units		02/26/18 11:36	
	Field Temperature	25.4	deg C		02/26/18 11:36	
	Field Specific Conductance	2670	umhos/cm		02/26/18 11:36	
	Field Oxidation Potential	-137	mV		02/26/18 11:36	
	Oxygen, Dissolved	0.69	mg/L		02/26/18 11:36	
	Field Turbidity	0.48	NTU		02/26/18 11:36	
	Elevation Water Level	461.70	ft/msl		02/26/18 11:36	
	Collar Elevation	483.51	ft/msl		02/26/18 11:36	
	Depth to Water	21.81	feet		02/26/18 11:36	
EPA 9056	Chloride	303	mg/L	25.0	03/08/18 20:03	
EPA 9056	Fluoride	1.0	mg/L	0.10	03/08/18 19:28	
EPA 9056	Sulfate	1.1	mg/L	0.25	03/08/18 19:28	
EPA 6010	Barium	795	ug/L	10.0	03/07/18 02:01	
EPA 6010	Boron	1300	ug/L	100	03/07/18 02:01	
EPA 6010	Calcium	100000	ug/L	500	03/07/18 02:01	
EPA 6010	Iron	12800	ug/L	50.0	03/07/18 02:01	
EPA 6010	Magnesium	65600	ug/L	500	03/07/18 02:01	
EPA 6010	Manganese	128	ug/L	5.0	03/07/18 02:01	
EPA 6010	Nickel	85.4	ug/L	10.0	03/07/18 02:01	
EPA 6010	Sodium	207000	ug/L	2000	03/07/18 02:51	
EPA 6010	Total Hardness by 2340B	520000	ug/L	1000	03/07/18 02:01	
EPA 6020	Arsenic	18.7	ug/L	5.0	03/10/18 02:40	
EPA 6020	Chromium	16.8	ug/L	5.0	03/10/18 02:40	
EPA 6020	Vanadium	12.4	ug/L	10.0	03/10/18 02:40	
EPA 8260	Benzene	438	ug/L	50.0	03/09/18 01:57	
EPA 8260	Toluene	5.0	ug/L	5.0	03/07/18 09:04	
EPA 8260	Xylene (Total)	17.7	ug/L	5.0	03/07/18 09:04	
SM 2540C	Total Dissolved Solids	1140	mg/L	10.0	03/01/18 12:04	

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SUMMARY OF DETECTION

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50191007003	**PZ-104-SD**					
EPA 410.4	Chemical Oxygen Demand	252	mg/L	20.0	03/01/18 16:14	
EPA 365.1	Phosphorus	0.19	mg/L	0.050	03/07/18 09:40	
SM 4500-NH3 G	Nitrogen, Ammonia	55.1	mg/L	1.0	02/28/18 17:20	
SM 5310C	Total Organic Carbon	84.2	mg/L	10.0	03/12/18 12:09	
50191007004	**PZ-104-SS**					
	Field pH	6.59	Std. Units		02/26/18 12:38	
	Field Temperature	25.6	deg C		02/26/18 12:38	
	Field Specific Conductance	787	umhos/cm		02/26/18 12:38	
	Field Oxidation Potential	-229	mV		02/26/18 12:38	
	Oxygen, Dissolved	0.59	mg/L		02/26/18 12:38	
	Field Turbidity	0.75	NTU		02/26/18 12:38	
	Elevation Water Level	462.19	ft/msl		02/26/18 12:38	
	Collar Elevation	483.45	ft/msl		02/26/18 12:38	
	Depth to Water	21.26	feet		02/26/18 12:38	
EPA 9056	Chloride	4.4	mg/L	0.25	03/08/18 20:20	
EPA 9056	Fluoride	0.83	mg/L	0.10	03/08/18 20:20	
EPA 9056	Sulfate	19.7	mg/L	0.25	03/08/18 20:20	
EPA 6010	Barium	102	ug/L	10.0	03/07/18 02:03	
EPA 6010	Boron	138	ug/L	100	03/07/18 02:03	
EPA 6010	Calcium	79100	ug/L	500	03/07/18 02:03	
EPA 6010	Iron	218	ug/L	50.0	03/07/18 02:03	
EPA 6010	Magnesium	47800	ug/L	500	03/07/18 02:03	
EPA 6010	Manganese	25.4	ug/L	5.0	03/07/18 02:03	
EPA 6010	Sodium	14100	ug/L	1000	03/07/18 02:03	
EPA 6010	Total Hardness by 2340B	394000	ug/L	1000	03/07/18 02:03	
EPA 8260	Benzene	24.2	ug/L	5.0	03/07/18 10:13	
SM 2540C	Total Dissolved Solids	384	mg/L	10.0	03/01/18 12:04	
EPA 410.4	Chemical Oxygen Demand	15.2	mg/L	10.0	03/01/18 16:14	
SM 5310C	Total Organic Carbon	2.5	mg/L	1.0	03/02/18 16:55	
50191007005	**PZ-104-SS DUP**					
EPA 9056	Chloride	4.4	mg/L	0.25	03/08/18 22:22	
EPA 9056	Fluoride	0.83	mg/L	0.10	03/08/18 22:22	
EPA 9056	Sulfate	20.2	mg/L	0.25	03/08/18 22:22	
EPA 6010	Barium	103	ug/L	10.0	03/07/18 02:05	
EPA 6010	Boron	138	ug/L	100	03/07/18 02:05	
EPA 6010	Calcium	79500	ug/L	500	03/07/18 02:05	
EPA 6010	Iron	206	ug/L	50.0	03/07/18 02:05	
EPA 6010	Magnesium	47900	ug/L	500	03/07/18 02:05	
EPA 6010	Manganese	25.6	ug/L	5.0	03/07/18 02:05	
EPA 6010	Sodium	14300	ug/L	1000	03/07/18 02:05	
EPA 6010	Total Hardness by 2340B	396000	ug/L	1000	03/07/18 02:05	
EPA 8260	Benzene	21.7	ug/L	5.0	03/07/18 10:47	
SM 2540C	Total Dissolved Solids	388	mg/L	10.0	03/01/18 12:05	
EPA 410.4	Chemical Oxygen Demand	17.2	mg/L	10.0	03/01/18 16:14	
SM 5310C	Total Organic Carbon	2.5	mg/L	1.0	03/02/18 17:18	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-111-SS **Lab ID: 50190863001** Collected: 02/20/18 10:46 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.97**	Std. Units		1		02/20/18 10:46		
Field Temperature	**16.0**	deg C		1		02/20/18 10:46		
Field Specific Conductance	**1670**	umhos/cm		1		02/20/18 10:46		
Field Oxidation Potential	**-173**	mV		1		02/20/18 10:46		
Oxygen, Dissolved	**0.92**	mg/L		1		02/20/18 10:46	7782-44-7	
Field Turbidity	**2.66**	NTU		1		02/20/18 10:46		
Elevation Water Level	**428.14**	ft/msl		1		02/20/18 10:46		
Collar Elevation	**464.63**	ft/msl		1		02/20/18 10:46		
Depth to Water	**36.49**	feet		1		02/20/18 10:46		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**190**	mg/L	25.0	100		02/28/18 22:57	16887-00-6	
Fluoride	**0.53**	mg/L	0.10	1		02/26/18 20:44	16984-48-8	
Sulfate	**27.7**	mg/L	2.5	10		02/28/18 22:40	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**310**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:36	7440-39-3	
Boron	**248**	ug/L	100	1	03/01/18 05:48	03/07/18 12:36	7440-42-8	
Calcium	**138000**	ug/L	500	1	03/01/18 05:48	03/07/18 12:36	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:36	7440-48-4	
Iron	**756**	ug/L	50.0	1	03/01/18 05:48	03/07/18 12:36	7439-89-6	
Magnesium	**74100**	ug/L	500	1	03/01/18 05:48	03/07/18 12:36	7439-95-4	
Manganese	**36.9**	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:36	7439-96-5	
Nickel	**12.5**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:36	7440-02-0	
Sodium	**91200**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:36	7440-23-5	
Total Hardness by 2340B	**650000**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:36		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 12:36	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:01	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:01	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:01	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 03:01	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:01	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:01	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:01	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:01	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:01	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:01	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 03:01	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:36	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 06:06	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-111-SS **Lab ID: 50190863001** Collected: 02/20/18 10:46 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		02/28/18 06:06	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 06:06	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 06:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 06:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 06:06	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 06:06	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 06:06	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 06:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 06:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 06:06	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 06:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 06:06	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 06:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 06:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 06:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 06:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 06:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 06:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 06:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 06:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 06:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 06:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 06:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 06:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 06:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 06:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 06:06	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 06:06	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 06:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 06:06	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 06:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 06:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 06:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 06:06	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 06:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 06:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 06:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 06:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 06:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 06:06	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 06:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 06:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 06:06	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-111-SS **Lab ID: 50190863001** Collected: 02/20/18 10:46 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		02/28/18 06:06	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	84-113	1		02/28/18 06:06	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		02/28/18 06:06	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**868**	mg/L	10.0	1		02/24/18 11:16		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**37.7**	mg/L	10.0	1	02/26/18 09:42	02/26/18 13:36		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:07		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:43	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.38**	mg/L	0.10	1		02/26/18 12:21	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**12.7**	mg/L	1.0	1		03/02/18 06:02	7440-44-0	

Sample: PZ-111-SD **Lab ID: 50190863002** Collected: 02/20/18 11:36 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.22**	Std. Units		1		02/20/18 11:36		
Field Temperature	**16.7**	deg C		1		02/20/18 11:36		
Field Specific Conductance	**842**	umhos/cm		1		02/20/18 11:36		
Field Oxidation Potential	**16**	mV		1		02/20/18 11:36		
Oxygen, Dissolved	**3.50**	mg/L		1		02/20/18 11:36	7782-44-7	
Field Turbidity	**0.89**	NTU		1		02/20/18 11:36		
Elevation Water Level	**428.66**	ft/msl		1		02/20/18 11:36		
Collar Elevation	**466.46**	ft/msl		1		02/20/18 11:36		
Depth to Water	**37.80**	feet		1		02/20/18 11:36		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**10.6**	mg/L	0.25	1		02/28/18 23:14	16887-00-6	
Fluoride	**2.0**	mg/L	0.10	1		02/28/18 23:14	16984-48-8	
Sulfate	**46.1**	mg/L	2.5	10		02/28/18 23:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-111-SD **Lab ID: 50190863002** Collected: 02/20/18 11:36 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**106**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:38	7440-39-3	
Boron	ND	ug/L	100	1	03/01/18 05:48	03/07/18 12:38	7440-42-8	
Calcium	**88400**	ug/L	500	1	03/01/18 05:48	03/07/18 12:38	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:38	7440-48-4	
Iron	**840**	ug/L	50.0	1	03/01/18 05:48	03/07/18 12:38	7439-89-6	
Magnesium	**51700**	ug/L	500	1	03/01/18 05:48	03/07/18 12:38	7439-95-4	
Manganese	**9.9**	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:38	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:38	7440-02-0	
Sodium	**18100**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:38	7440-23-5	
Total Hardness by 2340B	**434000**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:38		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 12:38	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:05	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:05	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:05	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 03:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:05	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:05	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:05	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:05	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:05	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:05	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 03:05	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:38	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 06:42	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 06:42	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 06:42	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 06:42	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 06:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 06:42	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 06:42	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 06:42	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 06:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 06:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 06:42	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 06:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 06:42	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 06:42	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 06:42	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 06:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 06:42	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-111-SD **Lab ID: 50190863002** Collected: 02/20/18 11:36 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		02/28/18 06:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 06:42	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 06:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 06:42	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 06:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 06:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 06:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 06:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 06:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 06:42	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 06:42	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 06:42	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 06:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 06:42	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 06:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 06:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 06:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 06:42	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 06:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 06:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 06:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 06:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 06:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 06:42	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 06:42	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 06:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 06:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	86-116	1		02/28/18 06:42	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	84-113	1		02/28/18 06:42	460-00-4	
Toluene-d8 (S)	101	%.	86-111	1		02/28/18 06:42	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**449**	mg/L	10.0	1		02/24/18 11:17		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/27/18 11:20	02/27/18 15:28		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:09		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:44	7723-14-0	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-111-SD **Lab ID: 50190863002** Collected: 02/20/18 11:36 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/26/18 12:22	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		03/02/18 08:16	7440-44-0	

Sample: PZ-109-SS **Lab ID: 50190863003** Collected: 02/21/18 08:50 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.12**	Std. Units		1		02/21/18 08:50		
Field Temperature	**18.8**	deg C		1		02/21/18 08:50		
Field Specific Conductance	**798**	umhos/cm		1		02/21/18 08:50		
Field Oxidation Potential	**100**	mV		1		02/21/18 08:50		
Oxygen, Dissolved	**1.13**	mg/L		1		02/21/18 08:50	7782-44-7	
Field Turbidity	**0.97**	NTU		1		02/21/18 08:50		
Elevation Water Level	**437.87**	ft/msl		1		02/21/18 08:50		
Collar Elevation	**460.19**	ft/msl		1		02/21/18 08:50		
Depth to Water	**22.32**	feet		1		02/21/18 08:50		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**3.9**	mg/L	0.25	1		02/28/18 23:49	16887-00-6	
Fluoride	**2.4**	mg/L	0.10	1		02/28/18 23:49	16984-48-8	
Sulfate	**23.3**	mg/L	0.25	1		02/28/18 23:49	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**60.2**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:40	7440-39-3	
Boron	**180**	ug/L	100	1	03/01/18 05:48	03/07/18 12:40	7440-42-8	
Calcium	**89400**	ug/L	500	1	03/01/18 05:48	03/07/18 12:40	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:40	7440-48-4	
Iron	ND	ug/L	50.0	1	03/01/18 05:48	03/07/18 12:40	7439-89-6	
Magnesium	**51700**	ug/L	500	1	03/01/18 05:48	03/07/18 12:40	7439-95-4	
Manganese	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:40	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:40	7440-02-0	
Sodium	**9840**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:40	7440-23-5	
Total Hardness by 2340B	**436000**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:40		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 12:40	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:10	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:10	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:10	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 03:10	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:10	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:10	7440-50-8	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-109-SS **Lab ID: 50190863003** Collected: 02/21/18 08:50 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:10	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:10	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:10	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:10	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 03:10	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:40	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 07:19	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 07:19	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 07:19	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 07:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 07:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 07:19	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 07:19	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 07:19	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 07:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 07:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 07:19	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 07:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 07:19	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 07:19	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 07:19	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 07:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 07:19	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 07:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 07:19	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 07:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 07:19	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 07:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 07:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 07:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 07:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 07:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 07:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 07:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 07:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 07:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 07:19	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 07:19	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 07:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 07:19	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 07:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 07:19	630-20-6	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-109-SS **Lab ID: 50190863003** Collected: 02/21/18 08:50 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 07:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 07:19	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 07:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 07:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 07:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 07:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 07:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 07:19	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 07:19	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 07:19	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 07:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	86-116	1		02/28/18 07:19	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	84-113	1		02/28/18 07:19	460-00-4	
Toluene-d8 (S)	103	%.	86-111	1		02/28/18 07:19	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**391**	mg/L	10.0	1		02/24/18 11:20		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/27/18 11:20	02/27/18 15:28		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:10		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:46	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/26/18 12:31	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		03/02/18 08:39	7440-44-0	

Sample: PZ-205-SS **Lab ID: 50190863004** Collected: 02/21/18 10:05 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.12**	Std. Units		1		02/21/18 10:05		
Field Temperature	**18.0**	deg C		1		02/21/18 10:05		
Field Specific Conductance	**896**	umhos/cm		1		02/21/18 10:05		
Field Oxidation Potential	**127**	mV		1		02/21/18 10:05		
Oxygen, Dissolved	**2.63**	mg/L		1		02/21/18 10:05	7782-44-7	
Field Turbidity	**1.30**	NTU		1		02/21/18 10:05		

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-205-SS **Lab ID: 50190863004** Collected: 02/21/18 10:05 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Elevation Water Level	**429.59**	ft/msl		1		02/21/18 10:05		
Collar Elevation	**465.18**	ft/msl		1		02/21/18 10:05		
Depth to Water	**35.59**	feet		1		02/21/18 10:05		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**31.5**	mg/L	2.5	10		03/01/18 00:07	16887-00-6	
Fluoride	**0.42**	mg/L	0.10	1		02/26/18 21:39	16984-48-8	
Sulfate	**52.5**	mg/L	2.5	10		03/01/18 00:07	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**142**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:43	7440-39-3	
Boron	ND	ug/L	100	1	03/01/18 05:48	03/07/18 12:43	7440-42-8	
Calcium	**96900**	ug/L	500	1	03/01/18 05:48	03/07/18 12:43	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:43	7440-48-4	
Iron	ND	ug/L	50.0	1	03/01/18 05:48	03/07/18 12:43	7439-89-6	
Magnesium	**55500**	ug/L	500	1	03/01/18 05:48	03/07/18 12:43	7439-95-4	
Manganese	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:43	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:43	7440-02-0	
Sodium	**15700**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:43	7440-23-5	
Total Hardness by 2340B	**471000**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:43		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 12:43	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:15	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:15	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:15	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 03:15	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:15	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:15	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:15	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:15	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:15	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:15	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 03:15	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:42	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 07:55	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 07:55	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 07:55	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 07:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 07:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 07:55	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 07:55	74-83-9	L1

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-205-SS **Lab ID: 50190863004** Collected: 02/21/18 10:05 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 07:55	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 07:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 07:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 07:55	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 07:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 07:55	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 07:55	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 07:55	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 07:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 07:55	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 07:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 07:55	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 07:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 07:55	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 07:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 07:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 07:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 07:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 07:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 07:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 07:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 07:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 07:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 07:55	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 07:55	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 07:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 07:55	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 07:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 07:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 07:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 07:55	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 07:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 07:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 07:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 07:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 07:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 07:55	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 07:55	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 07:55	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 07:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	86-116	1		02/28/18 07:55	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		02/28/18 07:55	460-00-4	
Toluene-d8 (S)	100	%.	86-111	1		02/28/18 07:55	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**487**	mg/L	10.0	1		02/24/18 11:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-205-SS **Lab ID: 50190863004** Collected: 02/21/18 10:05 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/27/18 11:20	02/27/18 15:28		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:12		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:46	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/26/18 12:32	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		03/02/18 09:10	7440-44-0	

Sample: PZ-106-SD **Lab ID: 50190863005** Collected: 02/21/18 11:58 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.02**	Std. Units		1		02/21/18 11:58		
Field Temperature	**21.2**	deg C		1		02/21/18 11:58		
Field Specific Conductance	**1569**	umhos/cm		1		02/21/18 11:58		
Field Oxidation Potential	**-148**	mV		1		02/21/18 11:58		
Oxygen, Dissolved	**7.28**	mg/L		1		02/21/18 11:58	7782-44-7	
Field Turbidity	**2.06**	NTU		1		02/21/18 11:58		
Elevation Water Level	**448.14**	ft/msl		1		02/21/18 11:58		
Collar Elevation	**463.36**	ft/msl		1		02/21/18 11:58		
Depth to Water	**15.22**	feet		1		02/21/18 11:58		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**154**	mg/L	25.0	100		03/01/18 00:41	16887-00-6	
Fluoride	**1.3**	mg/L	0.10	1		02/26/18 21:58	16984-48-8	
Sulfate	**53.4**	mg/L	2.5	10		03/01/18 00:24	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**304**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:45	7440-39-3	
Boron	**441**	ug/L	100	1	03/01/18 05:48	03/07/18 12:45	7440-42-8	
Calcium	**106000**	ug/L	500	1	03/01/18 05:48	03/07/18 12:45	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:45	7440-48-4	
Iron	**679**	ug/L	50.0	1	03/01/18 05:48	03/07/18 12:45	7439-89-6	
Magnesium	**64700**	ug/L	500	1	03/01/18 05:48	03/07/18 12:45	7439-95-4	
Manganese	**23.4**	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:45	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:45	7440-02-0	
Sodium	**90400**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:45	7440-23-5	
Total Hardness by 2340B	**531000**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:45		

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-106-SD **Lab ID: 50190863005** Collected: 02/21/18 11:58 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 12:45	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:28	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:28	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:28	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 03:28	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:28	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:28	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:28	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:28	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:28	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:28	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 03:28	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:44	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 08:31	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 08:31	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 08:31	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 08:31	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 08:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 08:31	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 08:31	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 08:31	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 08:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 08:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 08:31	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 08:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 08:31	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 08:31	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 08:31	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 08:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 08:31	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 08:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 08:31	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 08:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 08:31	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 08:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 08:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 08:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 08:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 08:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 08:31	78-87-5	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-106-SD **Lab ID: 50190863005** Collected: 02/21/18 11:58 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 08:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 08:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 08:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 08:31	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 08:31	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 08:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 08:31	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 08:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 08:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 08:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 08:31	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 08:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 08:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 08:31	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 08:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 08:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 08:31	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 08:31	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 08:31	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 08:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	86-116	1		02/28/18 08:31	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		02/28/18 08:31	460-00-4	
Toluene-d8 (S)	99	%.	86-111	1		02/28/18 08:31	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**809**	mg/L	10.0	1		02/24/18 11:26		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**54.1**	mg/L	10.0	1	02/27/18 11:20	02/27/18 15:28		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:14		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.054**	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:47	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**20.1**	mg/L	0.50	5		02/26/18 12:54	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**17.6**	mg/L	1.0	1		03/02/18 09:34	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-106-SS **Lab ID: 50190863006** Collected: 02/21/18 13:52 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.99**	Std. Units		1		02/21/18 13:52		
Field Temperature	**20.8**	deg C		1		02/21/18 13:52		
Field Specific Conductance	**1101**	umhos/cm		1		02/21/18 13:52		
Field Oxidation Potential	**-135**	mV		1		02/21/18 13:52		
Oxygen, Dissolved	**1.11**	mg/L		1		02/21/18 13:52	7782-44-7	
Field Turbidity	**2.02**	NTU		1		02/21/18 13:52		
Elevation Water Level	**447.86**	ft/msl		1		02/21/18 13:52		
Collar Elevation	**462.71**	ft/msl		1		02/21/18 13:52		
Depth to Water	**14.75**	feet		1		02/21/18 13:52		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**57.6**	mg/L	2.5	10		03/01/18 01:33	16887-00-6	
Fluoride	**1.8**	mg/L	0.10	1		02/26/18 22:52	16984-48-8	
Sulfate	**43.6**	mg/L	2.5	10		03/01/18 01:33	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**207**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:47	7440-39-3	
Boron	ND	ug/L	100	1	03/01/18 05:48	03/07/18 12:47	7440-42-8	
Calcium	**111000**	ug/L	500	1	03/01/18 05:48	03/07/18 12:47	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:47	7440-48-4	
Iron	**2860**	ug/L	50.0	1	03/01/18 05:48	03/07/18 12:47	7439-89-6	
Magnesium	**54700**	ug/L	500	1	03/01/18 05:48	03/07/18 12:47	7439-95-4	
Manganese	**15.8**	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:47	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:47	7440-02-0	
Sodium	**41700**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:47	7440-23-5	
Total Hardness by 2340B	**503000**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:47		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 12:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:51	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:51	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:51	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 03:51	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:51	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:51	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:51	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:51	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:51	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:51	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 03:51	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:46	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 09:08	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-106-SS **Lab ID: 50190863006** Collected: 02/21/18 13:52 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		02/28/18 09:08	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 09:08	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 09:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 09:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 09:08	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 09:08	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 09:08	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 09:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 09:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 09:08	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 09:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 09:08	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 09:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 09:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 09:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 09:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 09:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 09:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 09:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 09:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 09:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 09:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 09:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 09:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 09:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 09:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 09:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 09:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 09:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 09:08	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 09:08	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 09:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 09:08	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 09:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 09:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 09:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 09:08	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 09:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 09:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 09:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 09:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 09:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 09:08	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 09:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 09:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 09:08	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-106-SS **Lab ID: 50190863006** Collected: 02/21/18 13:52 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		02/28/18 09:08	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		02/28/18 09:08	460-00-4	
Toluene-d8 (S)	101	%.	86-111	1		02/28/18 09:08	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**595**	mg/L	10.0	1		02/24/18 11:26		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**22.8**	mg/L	10.0	1	02/27/18 11:20	02/27/18 15:28		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:15		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:48	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.19**	mg/L	0.10	1		02/26/18 12:55	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**8.7**	mg/L	1.0	1		03/02/18 09:57	7440-44-0	

Sample: PZ-105-SS **Lab ID: 50190863007** Collected: 02/21/18 15:16 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.16**	Std. Units		1		02/21/18 15:16		
Field Temperature	**19.4**	deg C		1		02/21/18 15:16		
Field Specific Conductance	**1079**	umhos/cm		1		02/21/18 15:16		
Field Oxidation Potential	**-30**	mV		1		02/21/18 15:16		
Oxygen, Dissolved	**1.19**	mg/L		1		02/21/18 15:16	7782-44-7	
Field Turbidity	**1.92**	NTU		1		02/21/18 15:16		
Elevation Water Level	**459.47**	ft/msl		1		02/21/18 15:16		
Collar Elevation	**483.51**	ft/msl		1		02/21/18 15:16		
Depth to Water	**24.04**	feet		1		02/21/18 15:16		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**76.1**	mg/L	2.5	10		03/01/18 16:37	16887-00-6	
Fluoride	**0.42**	mg/L	0.10	1		03/01/18 01:51	16984-48-8	
Sulfate	**46.9**	mg/L	2.5	10		03/01/18 16:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-105-SS **Lab ID: 50190863007** Collected: 02/21/18 15:16 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**180**	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:50	7440-39-3	
Boron	ND	ug/L	100	1	03/01/18 05:48	03/07/18 12:50	7440-42-8	
Calcium	**103000**	ug/L	500	1	03/01/18 05:48	03/07/18 12:50	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:50	7440-48-4	
Iron	**1650**	ug/L	50.0	1	03/01/18 05:48	03/07/18 12:50	7439-89-6	
Magnesium	**54000**	ug/L	500	1	03/01/18 05:48	03/07/18 12:50	7439-95-4	
Manganese	**88.8**	ug/L	5.0	1	03/01/18 05:48	03/07/18 12:50	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 12:50	7440-02-0	
Sodium	**42100**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:50	7440-23-5	
Total Hardness by 2340B	**479000**	ug/L	1000	1	03/01/18 05:48	03/07/18 12:50		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 12:50	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:56	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:56	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:56	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 03:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:56	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:56	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:56	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:56	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 03:56	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 03:56	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 03:56	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:48	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 09:44	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 09:44	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 09:44	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 09:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 09:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 09:44	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 09:44	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 09:44	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 09:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 09:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 09:44	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 09:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 09:44	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 09:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 09:44	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 09:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 09:44	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-105-SS **Lab ID: 50190863007** Collected: 02/21/18 15:16 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		02/28/18 09:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 09:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 09:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 09:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 09:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 09:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 09:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 09:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 09:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 09:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 09:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 09:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 09:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 09:44	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 09:44	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 09:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 09:44	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 09:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 09:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 09:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 09:44	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 09:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 09:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 09:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 09:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 09:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 09:44	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 09:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 09:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 09:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	86-116	1		02/28/18 09:44	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		02/28/18 09:44	460-00-4	
Toluene-d8 (S)	100	%.	86-111	1		02/28/18 09:44	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**581**	mg/L	10.0	1		02/24/18 11:26		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/26/18 10:00	02/26/18 15:21		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:25		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:48	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-105-SS **Lab ID: 50190863007** Collected: 02/21/18 15:16 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/26/18 12:35	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.0**	mg/L	1.0	1		03/02/18 10:20	7440-44-0	

Sample: PZ-100-SD **Lab ID: 50190863008** Collected: 02/22/18 10:15 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.32**	Std. Units		1		02/22/18 10:15		
Field Temperature	**15.2**	deg C		1		02/22/18 10:15		
Field Specific Conductance	**627**	umhos/cm		1		02/22/18 10:15		
Field Oxidation Potential	**-31**	mV		1		02/22/18 10:15		
Oxygen, Dissolved	**0.78**	mg/L		1		02/22/18 10:15	7782-44-7	
Field Turbidity	**2.58**	NTU		1		02/22/18 10:15		
Elevation Water Level	**453.16**	ft/msl		1		02/22/18 10:15		
Collar Elevation	**485.72**	ft/msl		1		02/22/18 10:15		
Depth to Water	**35.56**	feet		1		02/22/18 10:15		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**1.7**	mg/L	0.25	1		03/01/18 02:08	16887-00-6	
Fluoride	**2.1**	mg/L	0.10	1		03/01/18 02:08	16984-48-8	
Sulfate	**10.4**	mg/L	0.25	1		03/01/18 02:08	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**312**	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:38	7440-39-3	
Boron	ND	ug/L	100	1	03/01/18 05:48	03/07/18 13:38	7440-42-8	
Calcium	**73000**	ug/L	500	1	03/01/18 05:48	03/07/18 13:38	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:38	7440-48-4	
Iron	**401**	ug/L	50.0	1	03/01/18 05:48	03/07/18 13:38	7439-89-6	
Magnesium	**33900**	ug/L	500	1	03/01/18 05:48	03/07/18 13:38	7439-95-4	
Manganese	**38.5**	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:38	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:38	7440-02-0	
Sodium	**6730**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:38	7440-23-5	
Total Hardness by 2340B	**322000**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:38		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 13:38	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:00	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:00	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:00	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 04:00	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:00	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:00	7440-50-8	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-100-SD **Lab ID: 50190863008** Collected: 02/22/18 10:15 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:00	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:00	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:00	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:00	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 04:00	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:50	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 10:21	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 10:21	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 10:21	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 10:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 10:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 10:21	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 10:21	74-83-9	L1
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 10:21	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 10:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 10:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 10:21	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 10:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 10:21	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 10:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 10:21	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 10:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 10:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 10:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 10:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 10:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 10:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 10:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 10:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 10:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 10:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 10:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 10:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 10:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 10:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 10:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 10:21	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 10:21	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 10:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 10:21	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 10:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 10:21	630-20-6	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-100-SD **Lab ID: 50190863008** Collected: 02/22/18 10:15 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 10:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 10:21	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 10:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 10:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 10:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 10:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 10:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 10:21	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 10:21	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 10:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 10:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	86-116	1		02/28/18 10:21	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		02/28/18 10:21	460-00-4	
Toluene-d8 (S)	100	%.	86-111	1		02/28/18 10:21	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**325**	mg/L	10.0	1		02/27/18 09:46		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/26/18 10:00	02/26/18 15:21		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:30		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:49	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.25**	mg/L	0.10	1		02/26/18 12:36	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		03/02/18 10:51	7440-44-0	

Sample: PZ-100-SS **Lab ID: 50190863009** Collected: 02/22/18 10:49 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.18**	Std. Units		1		02/22/18 10:49		
Field Temperature	**15.6**	deg C		1		02/22/18 10:49		
Field Specific Conductance	**814**	umhos/cm		1		02/22/18 10:49		
Field Oxidation Potential	**155**	mV		1		02/22/18 10:49		
Oxygen, Dissolved	**3.98**	mg/L		1		02/22/18 10:49	7782-44-7	
Field Turbidity	**0.01**	NTU		1		02/22/18 10:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-100-SS **Lab ID: 50190863009** Collected: 02/22/18 10:49 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Elevation Water Level	**456.01**	ft/msl		1		02/22/18 10:49		
Collar Elevation	**485.75**	ft/msl		1		02/22/18 10:49		
Depth to Water	**29.74**	feet		1		02/22/18 10:49		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**3.9**	mg/L	0.25	1		03/01/18 02:43	16887-00-6	
Fluoride	**0.62**	mg/L	0.10	1		03/01/18 02:43	16984-48-8	
Sulfate	**34.3**	mg/L	2.5	10		03/01/18 03:00	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**66.6**	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:40	7440-39-3	
Boron	**109**	ug/L	100	1	03/01/18 05:48	03/07/18 13:40	7440-42-8	
Calcium	**88500**	ug/L	500	1	03/01/18 05:48	03/07/18 13:40	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:40	7440-48-4	
Iron	ND	ug/L	50.0	1	03/01/18 05:48	03/07/18 13:40	7439-89-6	
Magnesium	**50800**	ug/L	500	1	03/01/18 05:48	03/07/18 13:40	7439-95-4	
Manganese	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:40	7439-96-5	
Nickel	**10.3**	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:40	7440-02-0	
Sodium	**10000**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:40	7440-23-5	
Total Hardness by 2340B	**430000**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:40		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 13:40	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:05	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:05	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:05	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 04:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:05	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:05	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:05	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:05	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:05	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:05	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 04:05	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 19:53	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 03:24	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 03:24	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 03:24	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 03:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 03:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 03:24	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 03:24	74-83-9	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-100-SS **Lab ID: 50190863009** Collected: 02/22/18 10:49 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 03:24	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 03:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 03:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 03:24	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 03:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 03:24	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 03:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 03:24	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 03:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 03:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 03:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 03:24	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 03:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 03:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 03:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 03:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 03:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 03:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 03:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 03:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 03:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 03:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 03:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 03:24	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 03:24	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 03:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 03:24	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 03:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 03:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 03:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 03:24	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 03:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 03:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 03:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 03:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 03:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 03:24	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 03:24	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 03:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 03:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	86-116	1		02/28/18 03:24	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		02/28/18 03:24	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		02/28/18 03:24	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**430**	mg/L	10.0	1		02/27/18 09:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-100-SS **Lab ID: 50190863009** Collected: 02/22/18 10:49 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/26/18 10:00	02/26/18 15:21		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:31		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:50	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/26/18 12:37	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	1.0	1		03/02/18 11:22	7440-44-0	

Sample: PZ-201A-SS **Lab ID: 50190863010** Collected: 02/22/18 11:30 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.22**	Std. Units		1		02/22/18 11:30		
Field Temperature	**16.0**	deg C		1		02/22/18 11:30		
Field Specific Conductance	**788**	umhos/cm		1		02/22/18 11:30		
Field Oxidation Potential	**211**	mV		1		02/22/18 11:30		
Oxygen, Dissolved	**4.67**	mg/L		1		02/22/18 11:30	7782-44-7	
Field Turbidity	**1.60**	NTU		1		02/22/18 11:30		
Elevation Water Level	**465.95**	ft/msl		1		02/22/18 11:30		
Collar Elevation	**480.20**	ft/msl		1		02/22/18 11:30		
Depth to Water	**14.25**	feet		1		02/22/18 11:30		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**4.1**	mg/L	0.25	1		03/01/18 03:18	16887-00-6	
Fluoride	**0.37**	mg/L	0.10	1		03/01/18 03:18	16984-48-8	
Sulfate	**63.2**	mg/L	2.5	10		03/01/18 03:35	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**126**	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:42	7440-39-3	
Boron	ND	ug/L	100	1	03/01/18 05:48	03/07/18 13:42	7440-42-8	
Calcium	**90600**	ug/L	500	1	03/01/18 05:48	03/07/18 13:42	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:42	7440-48-4	
Iron	ND	ug/L	50.0	1	03/01/18 05:48	03/07/18 13:42	7439-89-6	
Magnesium	**45200**	ug/L	500	1	03/01/18 05:48	03/07/18 13:42	7439-95-4	
Manganese	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:42	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:42	7440-02-0	
Sodium	**11100**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:42	7440-23-5	
Total Hardness by 2340B	**412000**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:42		

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-201A-SS **Lab ID: 50190863010** Collected: 02/22/18 11:30 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 13:42	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:09	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:09	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:09	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 04:09	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:09	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:09	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:09	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:09	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:09	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:09	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 04:09	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 20:01	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 04:00	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 04:00	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 04:00	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 04:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 04:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 04:00	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 04:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 04:00	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 04:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 04:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 04:00	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 04:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 04:00	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 04:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 04:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 04:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 04:00	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 04:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 04:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 04:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 04:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 04:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 04:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 04:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 04:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 04:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 04:00	78-87-5	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-201A-SS **Lab ID: 50190863010** Collected: 02/22/18 11:30 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 04:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 04:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 04:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 04:00	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 04:00	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 04:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 04:00	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 04:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 04:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 04:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 04:00	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 04:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 04:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 04:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 04:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 04:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 04:00	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 04:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 04:00	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 04:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		02/28/18 04:00	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		02/28/18 04:00	460-00-4	
Toluene-d8 (S)	101	%.	86-111	1		02/28/18 04:00	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**468**	mg/L	10.0	1		02/27/18 09:47		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/26/18 10:00	02/26/18 15:21		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.34**	mg/L	0.10	1		02/26/18 12:33		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:50	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/26/18 12:38	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	1.0	1		03/02/18 11:53	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-115-SS **Lab ID: 50190863011** Collected: 02/22/18 13:30 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.68**	Std. Units		1		02/22/18 13:30		
Field Temperature	**15.2**	deg C		1		02/22/18 13:30		
Field Specific Conductance	**2740**	umhos/cm		1		02/22/18 13:30		
Field Oxidation Potential	**-26**	mV		1		02/22/18 13:30		
Oxygen, Dissolved	**0.73**	mg/L		1		02/22/18 13:30	7782-44-7	
Field Turbidity	**0.57**	NTU		1		02/22/18 13:30		
Elevation Water Level	**436.36**	ft/msl		1		02/22/18 13:30		
Collar Elevation	**452.27**	ft/msl		1		02/22/18 13:30		
Depth to Water	**15.91**	feet		1		02/22/18 13:30		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**500**	mg/L	25.0	100		03/01/18 03:52	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	1		02/27/18 00:24	16984-48-8	
Sulfate	**2.9**	mg/L	0.25	1		02/27/18 00:24	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**509**	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:45	7440-39-3	
Boron	**465**	ug/L	100	1	03/01/18 05:48	03/07/18 13:45	7440-42-8	
Calcium	**219000**	ug/L	2500	5	03/01/18 05:48	03/07/18 14:19	7440-70-2	
Cobalt	**30.9**	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:45	7440-48-4	
Iron	**2970**	ug/L	50.0	1	03/01/18 05:48	03/07/18 13:45	7439-89-6	
Magnesium	**102000**	ug/L	500	1	03/01/18 05:48	03/07/18 13:45	7439-95-4	
Manganese	**77.1**	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:45	7439-96-5	
Nickel	**70.8**	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:45	7440-02-0	
Sodium	**189000**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:45	7440-23-5	
Total Hardness by 2340B	**968000**	ug/L	5000	5	03/01/18 05:48	03/07/18 14:19		
Zinc	**22.2**	ug/L	20.0	1	03/01/18 05:48	03/07/18 13:45	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:23	7440-36-0	
Arsenic	**5.9**	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:23	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:23	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 04:23	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:23	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:23	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:23	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:23	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:23	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:23	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 04:23	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 20:03	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 04:36	67-64-1	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-115-SS **Lab ID: 50190863011** Collected: 02/22/18 13:30 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		02/28/18 04:36	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 04:36	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 04:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 04:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 04:36	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 04:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 04:36	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 04:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 04:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 04:36	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 04:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 04:36	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 04:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 04:36	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 04:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 04:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 04:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 04:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 04:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 04:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 04:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 04:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 04:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 04:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 04:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 04:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 04:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 04:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 04:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 04:36	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 04:36	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 04:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 04:36	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 04:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 04:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 04:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 04:36	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 04:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 04:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 04:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 04:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 04:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 04:36	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 04:36	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 04:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 04:36	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-115-SS **Lab ID: 50190863011** Collected: 02/22/18 13:30 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	101	%.	86-116	1		02/28/18 04:36	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	84-113	1		02/28/18 04:36	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		02/28/18 04:36	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1580**	mg/L	10.0	1		02/27/18 09:47		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**32.9**	mg/L	10.0	1	02/26/18 10:00	02/26/18 15:21		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:35		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.25**	mg/L	0.050	1	02/28/18 10:50	03/01/18 10:51	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**1.7**	mg/L	0.10	1		02/26/18 12:39	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**11.2**	mg/L	4.0	4		03/12/18 11:34	7440-44-0	

Sample: PZ-114-AS **Lab ID: 50190863012** Collected: 02/22/18 14:01 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.64**	Std. Units		1		02/22/18 14:01		
Field Temperature	**15.8**	deg C		1		02/22/18 14:01		
Field Specific Conductance	**2390**	umhos/cm		1		02/22/18 14:01		
Field Oxidation Potential	**-112**	mV		1		02/22/18 14:01		
Oxygen, Dissolved	**0.44**	mg/L		1		02/22/18 14:01	7782-44-7	
Field Turbidity	**1.06**	NTU		1		02/22/18 14:01		
Elevation Water Level	**428.44**	ft/msl		1		02/22/18 14:01		
Collar Elevation	**451.26**	ft/msl		1		02/22/18 14:01		
Depth to Water	**22.82**	feet		1		02/22/18 14:01		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**325**	mg/L	25.0	100		03/01/18 04:10	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		02/27/18 00:42	16984-48-8	
Sulfate	ND	mg/L	0.25	1		02/27/18 00:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-114-AS **Lab ID: 50190863012** Collected: 02/22/18 14:01 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**1210**	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:47	7440-39-3	
Boron	**268**	ug/L	100	1	03/01/18 05:48	03/07/18 13:47	7440-42-8	
Calcium	**214000**	ug/L	2500	5	03/01/18 05:48	03/07/18 14:21	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:47	7440-48-4	
Iron	**67800**	ug/L	50.0	1	03/01/18 05:48	03/07/18 13:47	7439-89-6	
Magnesium	**65900**	ug/L	500	1	03/01/18 05:48	03/07/18 13:47	7439-95-4	
Manganese	**2680**	ug/L	5.0	1	03/01/18 05:48	03/07/18 13:47	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 05:48	03/07/18 13:47	7440-02-0	
Sodium	**122000**	ug/L	1000	1	03/01/18 05:48	03/07/18 13:47	7440-23-5	
Total Hardness by 2340B	**806000**	ug/L	5000	5	03/01/18 05:48	03/07/18 14:21		
Zinc	ND	ug/L	20.0	1	03/01/18 05:48	03/07/18 13:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:28	7440-36-0	
Arsenic	**66.3**	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:28	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:28	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/28/18 13:43	03/01/18 04:28	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:28	7440-47-3	
Copper	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:28	7440-50-8	
Lead	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:28	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:28	7782-49-2	
Silver	ND	ug/L	5.0	1	02/28/18 13:43	03/01/18 04:28	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/28/18 13:43	03/01/18 04:28	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/28/18 13:43	03/01/18 04:28	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/06/18 12:08	03/06/18 20:05	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 05:12	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 05:12	107-13-1	
Benzene	**19.3**	ug/L	5.0	1		02/28/18 05:12	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 05:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 05:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 05:12	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 05:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 05:12	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 05:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 05:12	56-23-5	
Chlorobenzene	**102**	ug/L	5.0	1		02/28/18 05:12	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 05:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 05:12	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 05:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 05:12	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 05:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 05:12	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-114-AS **Lab ID: 50190863012** Collected: 02/22/18 14:01 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		02/28/18 05:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 05:12	95-50-1	
1,4-Dichlorobenzene	**6.4**	ug/L	5.0	1		02/28/18 05:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 05:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 05:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 05:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 05:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 05:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 05:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 05:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 05:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 05:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 05:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 05:12	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 05:12	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 05:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 05:12	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 05:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 05:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 05:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 05:12	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 05:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 05:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 05:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 05:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 05:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 05:12	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 05:12	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 05:12	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 05:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		02/28/18 05:12	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		02/28/18 05:12	460-00-4	
Toluene-d8 (S)	100	%.	86-111	1		02/28/18 05:12	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1310**	mg/L	10.0	1		02/28/18 09:12		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**41.5**	mg/L	10.0	1	02/26/18 10:00	02/26/18 15:21		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/26/18 12:36		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**2.1**	mg/L	0.25	5	02/28/18 10:50	03/01/18 11:08	7723-14-0	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-114-AS **Lab ID: 50190863012** Collected: 02/22/18 14:01 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**7.6**	mg/L	0.10	1		02/26/18 12:40	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**12.2**	mg/L	4.0	4		03/12/18 11:51	7440-44-0	

Sample: Trip Blank **Lab ID: 50190863013** Collected: 02/22/18 08:00 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/28/18 06:24	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/28/18 06:24	107-13-1	
Benzene	ND	ug/L	5.0	1		02/28/18 06:24	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/28/18 06:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/28/18 06:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/28/18 06:24	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/28/18 06:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/28/18 06:24	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/28/18 06:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/28/18 06:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/28/18 06:24	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/28/18 06:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/28/18 06:24	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/28/18 06:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/28/18 06:24	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/28/18 06:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/28/18 06:24	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/28/18 06:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 06:24	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/28/18 06:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/28/18 06:24	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/28/18 06:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/28/18 06:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/28/18 06:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/28/18 06:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 06:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/28/18 06:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/28/18 06:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/28/18 06:24	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/28/18 06:24	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/28/18 06:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/28/18 06:24	108-10-1	
Styrene	ND	ug/L	5.0	1		02/28/18 06:24	100-42-5	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: Trip Blank **Lab ID: 50190863013** Collected: 02/22/18 08:00 Received: 02/23/18 08:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 06:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/28/18 06:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/28/18 06:24	127-18-4	
Toluene	ND	ug/L	5.0	1		02/28/18 06:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/28/18 06:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/28/18 06:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/28/18 06:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/28/18 06:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/28/18 06:24	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/28/18 06:24	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/28/18 06:24	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/28/18 06:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		02/28/18 06:24	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		02/28/18 06:24	460-00-4	
Toluene-d8 (S)	100	%.	86-111	1		02/28/18 06:24	2037-26-5	

Sample: Field Blank @ PZ-104-KS **Lab ID: 50191007001** Collected: 02/26/18 09:10 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	ND	mg/L	0.25	1		03/08/18 19:10	16887-00-6	
Fluoride	ND	mg/L	0.10	1		03/08/18 19:10	16984-48-8	
Sulfate	ND	mg/L	0.25	1		03/08/18 19:10	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	ND	ug/L	10.0	1	03/01/18 10:45	03/07/18 01:55	7440-39-3	
Boron	ND	ug/L	100	1	03/01/18 10:45	03/07/18 01:55	7440-42-8	
Calcium	ND	ug/L	500	1	03/01/18 10:45	03/07/18 01:55	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 10:45	03/07/18 01:55	7440-48-4	
Iron	ND	ug/L	50.0	1	03/01/18 10:45	03/07/18 01:55	7439-89-6	
Magnesium	ND	ug/L	500	1	03/01/18 10:45	03/07/18 01:55	7439-95-4	
Manganese	ND	ug/L	5.0	1	03/01/18 10:45	03/07/18 01:55	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 10:45	03/07/18 01:55	7440-02-0	
Sodium	ND	ug/L	1000	1	03/01/18 10:45	03/07/18 01:55	7440-23-5	
Total Hardness by 2340B	ND	ug/L	1000	1	03/01/18 10:45	03/07/18 01:55		
Zinc	ND	ug/L	20.0	1	03/01/18 10:45	03/07/18 01:55	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:35	7440-36-0	
Arsenic	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:35	7440-38-2	
Beryllium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:35	7440-41-7	
Cadmium	ND	ug/L	0.20	1	03/07/18 14:56	03/10/18 02:35	7440-43-9	
Chromium	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:35	7440-47-3	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: Field Blank @ PZ-104-KS **Lab ID: 50191007001** Collected: 02/26/18 09:10 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Copper	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:35	7440-50-8	
Lead	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:35	7439-92-1	
Selenium	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:35	7782-49-2	
Silver	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:35	7440-22-4	
Thallium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:35	7440-28-0	
Vanadium	ND	ug/L	10.0	1	03/07/18 14:56	03/10/18 02:35	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/08/18 10:20	03/08/18 19:42	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/07/18 14:15	67-64-1	
Acrylonitrile	ND	ug/L	100	1		03/07/18 14:15	107-13-1	
Benzene	ND	ug/L	5.0	1		03/07/18 14:15	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/07/18 14:15	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/07/18 14:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/07/18 14:15	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/07/18 14:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/07/18 14:15	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/07/18 14:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/07/18 14:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/07/18 14:15	108-90-7	
Chloroethane	ND	ug/L	10.0	1		03/07/18 14:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/07/18 14:15	67-66-3	
Chloromethane	ND	ug/L	10.0	1		03/07/18 14:15	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/07/18 14:15	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/07/18 14:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/07/18 14:15	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		03/07/18 14:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 14:15	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 14:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		03/07/18 14:15	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/07/18 14:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/07/18 14:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/07/18 14:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 14:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 14:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/07/18 14:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 14:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 14:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/07/18 14:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/07/18 14:15	591-78-6	
Iodomethane	ND	ug/L	5.0	1		03/07/18 14:15	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/07/18 14:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/07/18 14:15	108-10-1	
Styrene	ND	ug/L	5.0	1		03/07/18 14:15	100-42-5	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: Field Blank @ PZ-104-KS **Lab ID: 50191007001** Collected: 02/26/18 09:10 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 14:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 14:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/07/18 14:15	127-18-4	
Toluene	ND	ug/L	5.0	1		03/07/18 14:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/07/18 14:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/07/18 14:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/07/18 14:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		03/07/18 14:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/07/18 14:15	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		03/07/18 14:15	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/07/18 14:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/07/18 14:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	86-116	1		03/07/18 14:15	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	84-113	1		03/07/18 14:15	460-00-4	
Toluene-d8 (S)	106	%.	86-111	1		03/07/18 14:15	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	1		03/01/18 12:03		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	03/01/18 13:30	03/01/18 16:14		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		03/07/18 11:43		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	03/01/18 11:55	03/07/18 09:39	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/28/18 16:45	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		03/02/18 15:58	7440-44-0	

Sample: PZ-104-KS **Lab ID: 50191007002** Collected: 02/26/18 10:30 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.16**	Std. Units		1		02/26/18 10:30		
Field Temperature	**24.6**	deg C		1		02/26/18 10:30		
Field Specific Conductance	**806**	umhos/cm		1		02/26/18 10:30		
Field Oxidation Potential	**-98**	mV		1		02/26/18 10:30		
Oxygen, Dissolved	**0.62**	mg/L		1		02/26/18 10:30	7782-44-7	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-KS **Lab ID: 50191007002** Collected: 02/26/18 10:30 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field Turbidity	**1.10**	NTU		1		02/26/18 10:30		
Elevation Water Level	**466.40**	ft/msl		1		02/26/18 10:30		
Collar Elevation	**483.95**	ft/msl		1		02/26/18 10:30		
Depth to Water	**17.55**	feet		1		02/26/18 10:30		
8260/5030 MSV	Analytical Method: EPA 8260							
Benzene	**7.8**	ug/L	5.0	1		03/07/18 08:29	71-43-2	
Surrogates								
Dibromofluoromethane (S)	96	%.	86-116	1		03/07/18 08:29	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	84-113	1		03/07/18 08:29	460-00-4	
Toluene-d8 (S)	104	%.	86-111	1		03/07/18 08:29	2037-26-5	

Sample: PZ-104-SD **Lab ID: 50191007003** Collected: 02/26/18 11:36 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.77**	Std. Units		1		02/26/18 11:36		
Field Temperature	**25.4**	deg C		1		02/26/18 11:36		
Field Specific Conductance	**2670**	umhos/cm		1		02/26/18 11:36		
Field Oxidation Potential	**-137**	mV		1		02/26/18 11:36		
Oxygen, Dissolved	**0.69**	mg/L		1		02/26/18 11:36	7782-44-7	
Field Turbidity	**0.48**	NTU		1		02/26/18 11:36		
Elevation Water Level	**461.70**	ft/msl		1		02/26/18 11:36		
Collar Elevation	**483.51**	ft/msl		1		02/26/18 11:36		
Depth to Water	**21.81**	feet		1		02/26/18 11:36		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**303**	mg/L	25.0	100		03/08/18 20:03	16887-00-6	
Fluoride	**1.0**	mg/L	0.10	1		03/08/18 19:28	16984-48-8	
Sulfate	**1.1**	mg/L	0.25	1		03/08/18 19:28	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**795**	ug/L	10.0	1	03/01/18 10:45	03/07/18 02:01	7440-39-3	
Boron	**1300**	ug/L	100	1	03/01/18 10:45	03/07/18 02:01	7440-42-8	
Calcium	**100000**	ug/L	500	1	03/01/18 10:45	03/07/18 02:01	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 10:45	03/07/18 02:01	7440-48-4	
Iron	**12800**	ug/L	50.0	1	03/01/18 10:45	03/07/18 02:01	7439-89-6	
Magnesium	**65600**	ug/L	500	1	03/01/18 10:45	03/07/18 02:01	7439-95-4	
Manganese	**128**	ug/L	5.0	1	03/01/18 10:45	03/07/18 02:01	7439-96-5	
Nickel	**85.4**	ug/L	10.0	1	03/01/18 10:45	03/07/18 02:01	7440-02-0	
Sodium	**207000**	ug/L	2000	2	03/01/18 10:45	03/07/18 02:51	7440-23-5	
Total Hardness by 2340B	**520000**	ug/L	1000	1	03/01/18 10:45	03/07/18 02:01		
Zinc	ND	ug/L	20.0	1	03/01/18 10:45	03/07/18 02:01	7440-66-6	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-SD **Lab ID: 50191007003** Collected: 02/26/18 11:36 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:40	7440-36-0	
Arsenic	**18.7**	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:40	7440-38-2	
Beryllium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:40	7440-41-7	
Cadmium	ND	ug/L	0.20	1	03/07/18 14:56	03/10/18 02:40	7440-43-9	
Chromium	**16.8**	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:40	7440-47-3	
Copper	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:40	7440-50-8	
Lead	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:40	7439-92-1	
Selenium	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:40	7782-49-2	
Silver	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:40	7440-22-4	
Thallium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:40	7440-28-0	
Vanadium	**12.4**	ug/L	10.0	1	03/07/18 14:56	03/10/18 02:40	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/08/18 10:20	03/08/18 19:44	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/07/18 09:04	67-64-1	
Acrylonitrile	ND	ug/L	100	1		03/07/18 09:04	107-13-1	
Benzene	**438**	ug/L	50.0	10		03/09/18 01:57	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/07/18 09:04	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/07/18 09:04	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/07/18 09:04	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/07/18 09:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/07/18 09:04	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/07/18 09:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/07/18 09:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/07/18 09:04	108-90-7	
Chloroethane	ND	ug/L	10.0	1		03/07/18 09:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/07/18 09:04	67-66-3	
Chloromethane	ND	ug/L	10.0	1		03/07/18 09:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/07/18 09:04	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/07/18 09:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/07/18 09:04	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		03/07/18 09:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 09:04	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 09:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		03/07/18 09:04	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/07/18 09:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/07/18 09:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/07/18 09:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 09:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 09:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/07/18 09:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 09:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 09:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/07/18 09:04	100-41-4	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-SD **Lab ID: 50191007003** Collected: 02/26/18 11:36 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	10.0	1		03/07/18 09:04	591-78-6	
Iodomethane	ND	ug/L	5.0	1		03/07/18 09:04	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/07/18 09:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/07/18 09:04	108-10-1	
Styrene	ND	ug/L	5.0	1		03/07/18 09:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 09:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 09:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/07/18 09:04	127-18-4	
Toluene	**5.0**	ug/L	5.0	1		03/07/18 09:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/07/18 09:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/07/18 09:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/07/18 09:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		03/07/18 09:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/07/18 09:04	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		03/07/18 09:04	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/07/18 09:04	75-01-4	
Xylene (Total)	**17.7**	ug/L	5.0	1		03/07/18 09:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	86-116	1		03/07/18 09:04	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	84-113	1		03/07/18 09:04	460-00-4	
Toluene-d8 (S)	106	%.	86-111	1		03/07/18 09:04	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1140**	mg/L	10.0	1		03/01/18 12:04		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**252**	mg/L	20.0	1	03/01/18 13:30	03/01/18 16:14		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		03/07/18 11:45		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.19**	mg/L	0.050	1	03/01/18 11:55	03/07/18 09:40	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**55.1**	mg/L	1.0	10		02/28/18 17:20	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**84.2**	mg/L	10.0	10		03/12/18 12:09	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-SS **Lab ID: 50191007004** Collected: 02/26/18 12:38 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.59**	Std. Units		1		02/26/18 12:38		
Field Temperature	**25.6**	deg C		1		02/26/18 12:38		
Field Specific Conductance	**787**	umhos/cm		1		02/26/18 12:38		
Field Oxidation Potential	**-229**	mV		1		02/26/18 12:38		
Oxygen, Dissolved	**0.59**	mg/L		1		02/26/18 12:38	7782-44-7	
Field Turbidity	**0.75**	NTU		1		02/26/18 12:38		
Elevation Water Level	**462.19**	ft/msl		1		02/26/18 12:38		
Collar Elevation	**483.45**	ft/msl		1		02/26/18 12:38		
Depth to Water	**21.26**	feet		1		02/26/18 12:38		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**4.4**	mg/L	0.25	1		03/08/18 20:20	16887-00-6	
Fluoride	**0.83**	mg/L	0.10	1		03/08/18 20:20	16984-48-8	
Sulfate	**19.7**	mg/L	0.25	1		03/08/18 20:20	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**102**	ug/L	10.0	1	03/01/18 10:45	03/07/18 02:03	7440-39-3	
Boron	**138**	ug/L	100	1	03/01/18 10:45	03/07/18 02:03	7440-42-8	
Calcium	**79100**	ug/L	500	1	03/01/18 10:45	03/07/18 02:03	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 10:45	03/07/18 02:03	7440-48-4	
Iron	**218**	ug/L	50.0	1	03/01/18 10:45	03/07/18 02:03	7439-89-6	
Magnesium	**47800**	ug/L	500	1	03/01/18 10:45	03/07/18 02:03	7439-95-4	
Manganese	**25.4**	ug/L	5.0	1	03/01/18 10:45	03/07/18 02:03	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 10:45	03/07/18 02:03	7440-02-0	
Sodium	**14100**	ug/L	1000	1	03/01/18 10:45	03/07/18 02:03	7440-23-5	
Total Hardness by 2340B	**394000**	ug/L	1000	1	03/01/18 10:45	03/07/18 02:03		
Zinc	ND	ug/L	20.0	1	03/01/18 10:45	03/07/18 02:03	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:44	7440-36-0	
Arsenic	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:44	7440-38-2	
Beryllium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:44	7440-41-7	
Cadmium	ND	ug/L	0.20	1	03/07/18 14:56	03/10/18 02:44	7440-43-9	
Chromium	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:44	7440-47-3	
Copper	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:44	7440-50-8	
Lead	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:44	7439-92-1	
Selenium	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:44	7782-49-2	
Silver	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:44	7440-22-4	
Thallium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:44	7440-28-0	
Vanadium	ND	ug/L	10.0	1	03/07/18 14:56	03/10/18 02:44	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/08/18 10:20	03/08/18 19:46	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/07/18 10:13	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-SS **Lab ID: 50191007004** Collected: 02/26/18 12:38 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		03/07/18 10:13	107-13-1	
Benzene	**24.2**	ug/L	5.0	1		03/07/18 10:13	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/07/18 10:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/07/18 10:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/07/18 10:13	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/07/18 10:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/07/18 10:13	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/07/18 10:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/07/18 10:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/07/18 10:13	108-90-7	
Chloroethane	ND	ug/L	10.0	1		03/07/18 10:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/07/18 10:13	67-66-3	
Chloromethane	ND	ug/L	10.0	1		03/07/18 10:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/07/18 10:13	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/07/18 10:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/07/18 10:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		03/07/18 10:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 10:13	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 10:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		03/07/18 10:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/07/18 10:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/07/18 10:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/07/18 10:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 10:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 10:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/07/18 10:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 10:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 10:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/07/18 10:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/07/18 10:13	591-78-6	
Iodomethane	ND	ug/L	5.0	1		03/07/18 10:13	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/07/18 10:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/07/18 10:13	108-10-1	
Styrene	ND	ug/L	5.0	1		03/07/18 10:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 10:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 10:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/07/18 10:13	127-18-4	
Toluene	ND	ug/L	5.0	1		03/07/18 10:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/07/18 10:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/07/18 10:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/07/18 10:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		03/07/18 10:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/07/18 10:13	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		03/07/18 10:13	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/07/18 10:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/07/18 10:13	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-SS **Lab ID: 50191007004** Collected: 02/26/18 12:38 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	97	%.	86-116	1		03/07/18 10:13	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	84-113	1		03/07/18 10:13	460-00-4	
Toluene-d8 (S)	106	%.	86-111	1		03/07/18 10:13	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**384**	mg/L	10.0	1		03/01/18 12:04		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**15.2**	mg/L	10.0	1	03/01/18 13:30	03/01/18 16:14		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		03/07/18 11:46		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	03/01/18 11:55	03/07/18 09:41	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/28/18 17:18	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.5**	mg/L	1.0	1		03/02/18 16:55	7440-44-0	

Sample: PZ-104-SS DUP **Lab ID: 50191007005** Collected: 02/26/18 12:38 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**4.4**	mg/L	0.25	1		03/08/18 22:22	16887-00-6	
Fluoride	**0.83**	mg/L	0.10	1		03/08/18 22:22	16984-48-8	
Sulfate	**20.2**	mg/L	0.25	1		03/08/18 22:22	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**103**	ug/L	10.0	1	03/01/18 10:45	03/07/18 02:05	7440-39-3	
Boron	**138**	ug/L	100	1	03/01/18 10:45	03/07/18 02:05	7440-42-8	
Calcium	**79500**	ug/L	500	1	03/01/18 10:45	03/07/18 02:05	7440-70-2	
Cobalt	ND	ug/L	5.0	1	03/01/18 10:45	03/07/18 02:05	7440-48-4	
Iron	**206**	ug/L	50.0	1	03/01/18 10:45	03/07/18 02:05	7439-89-6	
Magnesium	**47900**	ug/L	500	1	03/01/18 10:45	03/07/18 02:05	7439-95-4	
Manganese	**25.6**	ug/L	5.0	1	03/01/18 10:45	03/07/18 02:05	7439-96-5	
Nickel	ND	ug/L	10.0	1	03/01/18 10:45	03/07/18 02:05	7440-02-0	
Sodium	**14300**	ug/L	1000	1	03/01/18 10:45	03/07/18 02:05	7440-23-5	
Total Hardness by 2340B	**396000**	ug/L	1000	1	03/01/18 10:45	03/07/18 02:05		
Zinc	ND	ug/L	20.0	1	03/01/18 10:45	03/07/18 02:05	7440-66-6	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-SS DUP **Lab ID: 50191007005** Collected: 02/26/18 12:38 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:49	7440-36-0	
Arsenic	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:49	7440-38-2	
Beryllium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:49	7440-41-7	
Cadmium	ND	ug/L	0.20	1	03/07/18 14:56	03/10/18 02:49	7440-43-9	
Chromium	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:49	7440-47-3	
Copper	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:49	7440-50-8	
Lead	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:49	7439-92-1	
Selenium	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:49	7782-49-2	
Silver	ND	ug/L	5.0	1	03/07/18 14:56	03/10/18 02:49	7440-22-4	
Thallium	ND	ug/L	2.0	1	03/07/18 14:56	03/10/18 02:49	7440-28-0	
Vanadium	ND	ug/L	10.0	1	03/07/18 14:56	03/10/18 02:49	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	03/08/18 10:20	03/08/18 19:49	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/07/18 10:47	67-64-1	
Acrylonitrile	ND	ug/L	100	1		03/07/18 10:47	107-13-1	
Benzene	**21.7**	ug/L	5.0	1		03/07/18 10:47	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/07/18 10:47	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/07/18 10:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/07/18 10:47	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/07/18 10:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/07/18 10:47	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/07/18 10:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/07/18 10:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/07/18 10:47	108-90-7	
Chloroethane	ND	ug/L	10.0	1		03/07/18 10:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/07/18 10:47	67-66-3	
Chloromethane	ND	ug/L	10.0	1		03/07/18 10:47	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/07/18 10:47	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/07/18 10:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/07/18 10:47	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		03/07/18 10:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 10:47	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 10:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		03/07/18 10:47	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/07/18 10:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/07/18 10:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/07/18 10:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 10:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 10:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/07/18 10:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 10:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 10:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/07/18 10:47	100-41-4	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: PZ-104-SS DUP **Lab ID: 50191007005** Collected: 02/26/18 12:38 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	10.0	1		03/07/18 10:47	591-78-6	
Iodomethane	ND	ug/L	5.0	1		03/07/18 10:47	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/07/18 10:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/07/18 10:47	108-10-1	
Styrene	ND	ug/L	5.0	1		03/07/18 10:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 10:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 10:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/07/18 10:47	127-18-4	
Toluene	ND	ug/L	5.0	1		03/07/18 10:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/07/18 10:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/07/18 10:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/07/18 10:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		03/07/18 10:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/07/18 10:47	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		03/07/18 10:47	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/07/18 10:47	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/07/18 10:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	86-116	1		03/07/18 10:47	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	84-113	1		03/07/18 10:47	460-00-4	
Toluene-d8 (S)	105	%.	86-111	1		03/07/18 10:47	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**388**	mg/L	10.0	1		03/01/18 12:05		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**17.2**	mg/L	10.0	1	03/01/18 13:30	03/01/18 16:14		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		03/07/18 11:48		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	03/01/18 11:55	03/07/18 09:41	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/28/18 16:56	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.5**	mg/L	1.0	1		03/02/18 17:18	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: Trip Blank **Lab ID: 50191007006** Collected: 02/26/18 00:00 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/07/18 11:22	67-64-1	
Acrylonitrile	ND	ug/L	100	1		03/07/18 11:22	107-13-1	
Benzene	ND	ug/L	5.0	1		03/07/18 11:22	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		03/07/18 11:22	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		03/07/18 11:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/07/18 11:22	75-25-2	
Bromomethane	ND	ug/L	10.0	1		03/07/18 11:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/07/18 11:22	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		03/07/18 11:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/07/18 11:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/07/18 11:22	108-90-7	
Chloroethane	ND	ug/L	10.0	1		03/07/18 11:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/07/18 11:22	67-66-3	
Chloromethane	ND	ug/L	10.0	1		03/07/18 11:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		03/07/18 11:22	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		03/07/18 11:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		03/07/18 11:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		03/07/18 11:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 11:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/07/18 11:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		03/07/18 11:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/07/18 11:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/07/18 11:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/07/18 11:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 11:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/07/18 11:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/07/18 11:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 11:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/07/18 11:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/07/18 11:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/07/18 11:22	591-78-6	
Iodomethane	ND	ug/L	5.0	1		03/07/18 11:22	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		03/07/18 11:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/07/18 11:22	108-10-1	
Styrene	ND	ug/L	5.0	1		03/07/18 11:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 11:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/07/18 11:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/07/18 11:22	127-18-4	
Toluene	ND	ug/L	5.0	1		03/07/18 11:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/07/18 11:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/07/18 11:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/07/18 11:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		03/07/18 11:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		03/07/18 11:22	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		03/07/18 11:22	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		03/07/18 11:22	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		03/07/18 11:22	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Sample: Trip Blank **Lab ID: 50191007006** Collected: 02/26/18 00:00 Received: 02/27/18 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	95	%.	86-116	1		03/07/18 11:22	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	84-113	1		03/07/18 11:22	460-00-4	
Toluene-d8 (S)	106	%.	86-111	1		03/07/18 11:22	2037-26-5	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429440 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1979508 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	03/01/18 13:03	
Fluoride	mg/L	ND	0.10	03/01/18 13:03	
Sulfate	mg/L	ND	0.25	03/01/18 13:03	

LABORATORY CONTROL SAMPLE: 1979509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	93	80-120	
Fluoride	mg/L	.5	0.52	105	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1979510 1979511

Parameter	Units	50190853003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	291	125	125	394	404	82	91	80-120	3	15	
Fluoride	mg/L	ND	.5	.5	0.43	0.22	80	39	80-120	64	15	
Sulfate	mg/L	1570	250	250	1810	1830	97	107	80-120	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 430582 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1986253 Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	03/08/18 21:12	
Fluoride	mg/L	ND	0.10	03/08/18 21:12	
Sulfate	mg/L	ND	0.25	03/08/18 21:12	

LABORATORY CONTROL SAMPLE: 1986254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	95	80-120	
Fluoride	mg/L	.5	0.51	103	80-120	
Sulfate	mg/L	2.5	2.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987663 1987664

Parameter	Units	50191007004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	1.2	1.2	5.6	5.6	99	98	80-120	0	15	
Fluoride	mg/L	0.83	.5	.5	1.4	1.4	113	113	80-120	0	15	
Sulfate	mg/L	19.7	2.5	2.5	22.2	22.2	101	102	80-120	0	15	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429478 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1979663 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/06/18 19:08	

LABORATORY CONTROL SAMPLE: 1979664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1979665 1979666

Parameter	Units	50190780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.5	4.6	89	93	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985701 1985702

Parameter	Units	50190926001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.5	4.8	90	97	75-125	7	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 430143 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1983387 Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/08/18 19:30	

LABORATORY CONTROL SAMPLE: 1983388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.8	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1983389 1983390

Parameter	Units	50191181002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.9	99	118	75-125	17	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429283 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1978668 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	03/07/18 12:17	
Boron	ug/L	ND	100	03/07/18 12:17	
Calcium	ug/L	ND	500	03/07/18 12:17	
Cobalt	ug/L	ND	5.0	03/07/18 12:17	
Iron	ug/L	ND	50.0	03/07/18 12:17	
Magnesium	ug/L	ND	500	03/07/18 12:17	
Manganese	ug/L	ND	5.0	03/07/18 12:17	
Nickel	ug/L	ND	10.0	03/07/18 12:17	
Sodium	ug/L	ND	1000	03/07/18 12:17	
Total Hardness by 2340B	ug/L	ND	1000	03/07/18 12:17	
Zinc	ug/L	ND	20.0	03/07/18 12:17	

LABORATORY CONTROL SAMPLE: 1978669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	995	100	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Cobalt	ug/L	1000	1020	102	80-120	
Iron	ug/L	10000	10100	101	80-120	
Magnesium	ug/L	10000	9770	98	80-120	
Manganese	ug/L	1000	970	97	80-120	
Nickel	ug/L	1000	1020	102	80-120	
Sodium	ug/L	10000	9960	100	80-120	
Total Hardness by 2340B	ug/L	66200	65200	99	80-120	
Zinc	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978670 1978671

Parameter	Units	50190820001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	69.8	1000	1000	1060	1090	99	102	75-125	2	20	
Boron	ug/L	1090	1000	1000	2060	2110	97	102	75-125	2	20	
Calcium	ug/L	95900	10000	10000	102000	105000	63	87	75-125	2	20	P6
Cobalt	ug/L	ND	1000	1000	989	997	98	99	75-125	1	20	
Iron	ug/L	4850	10000	10000	14800	15000	100	102	75-125	1	20	
Magnesium	ug/L	18600	10000	10000	27400	28000	89	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978670 1978671

Parameter	Units	50190820001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	749	1000	1000	1660	1690	91	94	75-125	2	20	
Nickel	ug/L	19.0	1000	1000	986	996	97	98	75-125	1	20	
Sodium	ug/L	62300	10000	10000	68700	70700	64	84	75-125	3	20	P6
Total Hardness by 2340B	ug/L	316000	66200	66200	368000	376000	79	91	75-125	2	20	
Zinc	ug/L	118	1000	1000	1090	1100	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429784 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1981358 Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	03/07/18 01:22	
Boron	ug/L	ND	100	03/07/18 01:22	
Calcium	ug/L	ND	500	03/07/18 01:22	
Cobalt	ug/L	ND	5.0	03/07/18 01:22	
Iron	ug/L	ND	50.0	03/07/18 01:22	
Magnesium	ug/L	ND	500	03/07/18 01:22	
Manganese	ug/L	ND	5.0	03/07/18 01:22	
Nickel	ug/L	ND	10.0	03/07/18 01:22	
Sodium	ug/L	ND	1000	03/07/18 01:22	
Total Hardness by 2340B	ug/L	ND	1000	03/07/18 01:22	
Zinc	ug/L	ND	20.0	03/07/18 01:22	

LABORATORY CONTROL SAMPLE: 1981359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	976	98	80-120	
Boron	ug/L	1000	954	95	80-120	
Calcium	ug/L	10000	9300	93	80-120	
Cobalt	ug/L	1000	974	97	80-120	
Iron	ug/L	10000	9610	96	80-120	
Magnesium	ug/L	10000	9140	91	80-120	
Manganese	ug/L	1000	907	91	80-120	
Nickel	ug/L	1000	968	97	80-120	
Sodium	ug/L	10000	9400	94	80-120	
Total Hardness by 2340B	ug/L	66200	60800	92	80-120	
Zinc	ug/L	1000	946	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1981360 1981361

Parameter	Units	50191073001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	1.7J	1000	1000	966	980	96	98	75-125	1	20	
Boron	ug/L	8.7J	1000	1000	973	984	96	98	75-125	1	20	
Calcium	ug/L	16200	10000	10000	25100	25100	89	89	75-125	0	20	
Cobalt	ug/L	ND	1000	1000	992	992	99	99	75-125	0	20	
Iron	ug/L	1890	10000	10000	11500	11600	96	98	75-125	1	20	
Magnesium	ug/L	1790	10000	10000	11000	11100	92	93	75-125	1	20	
Manganese	ug/L	161	1000	1000	1060	1070	90	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1981360 1981361

Parameter	Units	50191073001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	ug/L	ND	1000	1000	968	973	97	97	75-125	0	20	
Sodium	ug/L	1050	10000	10000	10400	10500	94	95	75-125	1	20	
Total Hardness by 2340B	ug/L	47800	66200	66200	108000	108000	91	91	75-125	0	20	
Zinc	ug/L	1.7J	1000	1000	964	967	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429624 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1980668 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	03/01/18 02:33	
Arsenic	ug/L	ND	5.0	03/01/18 02:33	
Beryllium	ug/L	ND	2.0	03/01/18 02:33	
Cadmium	ug/L	ND	0.20	03/01/18 02:33	
Chromium	ug/L	ND	5.0	03/01/18 02:33	
Copper	ug/L	ND	5.0	03/01/18 02:33	
Lead	ug/L	ND	5.0	03/01/18 02:33	
Selenium	ug/L	ND	5.0	03/01/18 02:33	
Silver	ug/L	ND	5.0	03/01/18 02:33	
Thallium	ug/L	ND	2.0	03/01/18 02:33	
Vanadium	ug/L	ND	10.0	03/01/18 02:33	

LABORATORY CONTROL SAMPLE: 1980669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	44.3	111	80-120	
Arsenic	ug/L	40	38.3	96	80-120	
Beryllium	ug/L	40	39.2	98	80-120	
Cadmium	ug/L	40	40.0	100	80-120	
Chromium	ug/L	40	39.3	98	80-120	
Copper	ug/L	40	40.4	101	80-120	
Lead	ug/L	40	39.9	100	80-120	
Selenium	ug/L	40	37.7	94	80-120	
Silver	ug/L	40	40.9	102	80-120	
Thallium	ug/L	40	40.1	100	80-120	
Vanadium	ug/L	40	38.0	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1980670 1980671

Parameter	Units	50190863005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	40	40	41.2	42.0	103	105	75-125	2	20	
Arsenic	ug/L	ND	40	40	36.6	37.0	91	92	75-125	1	20	
Beryllium	ug/L	ND	40	40	37.5	38.5	94	96	75-125	3	20	
Cadmium	ug/L	ND	40	40	36.7	37.1	92	93	75-125	1	20	
Chromium	ug/L	ND	40	40	39.1	38.8	93	92	75-125	1	20	
Copper	ug/L	ND	40	40	34.4	35.0	85	86	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1980670 1980671

Parameter	Units	50190863005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	40	40	38.9	39.4	97	98	75-125	1	20	
Selenium	ug/L	ND	40	40	36.2	35.5	90	89	75-125	2	20	
Silver	ug/L	ND	40	40	36.3	36.8	91	92	75-125	1	20	
Thallium	ug/L	ND	40	40	40.1	40.3	100	101	75-125	0	20	
Vanadium	ug/L	ND	40	40	38.3	38.7	93	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 430780 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1987379 Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	03/10/18 02:26	
Arsenic	ug/L	ND	5.0	03/10/18 02:26	
Beryllium	ug/L	ND	2.0	03/10/18 02:26	
Cadmium	ug/L	ND	0.20	03/10/18 02:26	
Chromium	ug/L	ND	5.0	03/10/18 02:26	
Copper	ug/L	ND	5.0	03/10/18 02:26	
Lead	ug/L	ND	5.0	03/10/18 02:26	
Selenium	ug/L	ND	5.0	03/10/18 02:26	
Silver	ug/L	ND	5.0	03/10/18 02:26	
Thallium	ug/L	ND	2.0	03/10/18 02:26	
Vanadium	ug/L	ND	10.0	03/10/18 02:26	

LABORATORY CONTROL SAMPLE: 1987380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.4	106	80-120	
Arsenic	ug/L	40	37.6	94	80-120	
Beryllium	ug/L	40	39.9	100	80-120	
Cadmium	ug/L	40	38.1	95	80-120	
Chromium	ug/L	40	39.3	98	80-120	
Copper	ug/L	40	38.7	97	80-120	
Lead	ug/L	40	39.5	99	80-120	
Selenium	ug/L	40	37.8	94	80-120	
Silver	ug/L	40	39.6	99	80-120	
Thallium	ug/L	40	39.8	99	80-120	
Vanadium	ug/L	40	39.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987381 1987382

Parameter	Units	50191466007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	40	40	45.6	45.4	114	113	75-125	1	20	
Arsenic	ug/L	28.0	40	40	70.5	71.6	106	109	75-125	2	20	
Beryllium	ug/L	ND	40	40	43.5	43.1	109	108	75-125	1	20	
Cadmium	ug/L	ND	40	40	40.2	39.8	101	99	75-125	1	20	
Chromium	ug/L	ND	40	40	41.1	40.0	103	100	75-125	3	20	
Copper	ug/L	ND	40	40	40.3	39.8	100	98	75-125	1	20	
Lead	ug/L	ND	40	40	41.9	41.6	104	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987381 1987382

Parameter	Units	50191466007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Selenium	ug/L	ND	40	40	41.1	41.1	103	103	75-125	0	20	
Silver	ug/L	ND	40	40	40.9	40.8	102	102	75-125	0	20	
Thallium	ug/L	ND	40	40	41.2	40.4	103	101	75-125	2	20	
Vanadium	ug/L	ND	40	40	40.9J	40.8J	102	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429628 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008

METHOD BLANK: 1980768 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/28/18 02:30	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/28/18 02:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/28/18 02:30	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/28/18 02:30	
1,1-Dichloroethane	ug/L	ND	5.0	02/28/18 02:30	
1,1-Dichloroethene	ug/L	ND	5.0	02/28/18 02:30	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/28/18 02:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/28/18 02:30	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/28/18 02:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/28/18 02:30	
1,2-Dichloroethane	ug/L	ND	5.0	02/28/18 02:30	
1,2-Dichloropropane	ug/L	ND	5.0	02/28/18 02:30	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/28/18 02:30	
2-Butanone (MEK)	ug/L	ND	10.0	02/28/18 02:30	
2-Hexanone	ug/L	ND	10.0	02/28/18 02:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/28/18 02:30	
Acetone	ug/L	ND	10.0	02/28/18 02:30	
Acrylonitrile	ug/L	ND	100	02/28/18 02:30	
Benzene	ug/L	ND	5.0	02/28/18 02:30	
Bromochloromethane	ug/L	ND	5.0	02/28/18 02:30	
Bromodichloromethane	ug/L	ND	5.0	02/28/18 02:30	
Bromoform	ug/L	ND	5.0	02/28/18 02:30	
Bromomethane	ug/L	ND	10.0	02/28/18 02:30	
Carbon disulfide	ug/L	ND	10.0	02/28/18 02:30	
Carbon tetrachloride	ug/L	ND	5.0	02/28/18 02:30	
Chlorobenzene	ug/L	ND	5.0	02/28/18 02:30	
Chloroethane	ug/L	ND	10.0	02/28/18 02:30	
Chloroform	ug/L	ND	5.0	02/28/18 02:30	
Chloromethane	ug/L	ND	10.0	02/28/18 02:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/28/18 02:30	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/28/18 02:30	
Dibromochloromethane	ug/L	ND	5.0	02/28/18 02:30	
Dibromomethane	ug/L	ND	10.0	02/28/18 02:30	
Ethylbenzene	ug/L	ND	5.0	02/28/18 02:30	
Iodomethane	ug/L	ND	5.0	02/28/18 02:30	
Methylene Chloride	ug/L	ND	5.0	02/28/18 02:30	
Styrene	ug/L	ND	5.0	02/28/18 02:30	
Tetrachloroethene	ug/L	ND	5.0	02/28/18 02:30	
Toluene	ug/L	ND	5.0	02/28/18 02:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/28/18 02:30	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

METHOD BLANK: 1980768 Matrix: Water

Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/28/18 02:30	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	02/28/18 02:30	
Trichloroethene	ug/L	ND	5.0	02/28/18 02:30	
Trichlorofluoromethane	ug/L	ND	10.0	02/28/18 02:30	
Vinyl acetate	ug/L	ND	10.0	02/28/18 02:30	
Vinyl chloride	ug/L	ND	2.0	02/28/18 02:30	
Xylene (Total)	ug/L	ND	5.0	02/28/18 02:30	
4-Bromofluorobenzene (S)	%.	100	84-113	02/28/18 02:30	
Dibromofluoromethane (S)	%.	99	86-116	02/28/18 02:30	
Toluene-d8 (S)	%.	101	86-111	02/28/18 02:30	

LABORATORY CONTROL SAMPLE: 1980769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.0	94	80-123	
1,1,1-Trichloroethane	ug/L	50	50.7	101	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	41.1	82	74-124	
1,1,2-Trichloroethane	ug/L	50	41.6	83	79-121	
1,1-Dichloroethane	ug/L	50	45.9	92	77-122	
1,1-Dichloroethene	ug/L	50	47.4	95	70-131	
1,2,3-Trichloropropane	ug/L	50	45.6	91	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	45.1	90	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	46.3	93	81-123	
1,2-Dichlorobenzene	ug/L	50	46.6	93	77-118	
1,2-Dichloroethane	ug/L	50	42.4	85	72-119	
1,2-Dichloropropane	ug/L	50	50.0	100	78-125	
1,4-Dichlorobenzene	ug/L	50	45.9	92	72-118	
2-Butanone (MEK)	ug/L	250	235	94	61-150	
2-Hexanone	ug/L	250	216	86	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	222	89	71-131	
Acetone	ug/L	250	246	98	39-166	
Acrylonitrile	ug/L	200	171	86	62-130	
Benzene	ug/L	50	51.5	103	79-120	
Bromochloromethane	ug/L	50	49.4	99	69-136	
Bromodichloromethane	ug/L	50	43.1	86	76-125	
Bromoform	ug/L	50	41.7	83	69-119	
Bromomethane	ug/L	50	149	299	27-161	L1
Carbon disulfide	ug/L	50	50.8	102	60-130	
Carbon tetrachloride	ug/L	50	45.6	91	74-132	
Chlorobenzene	ug/L	50	46.9	94	77-116	
Chloroethane	ug/L	50	56.1	112	51-132	
Chloroform	ug/L	50	48.4	97	76-118	
Chloromethane	ug/L	50	55.7	111	46-126	

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Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

LABORATORY CONTROL SAMPLE: 1980769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	49.9	100	74-126	
cis-1,3-Dichloropropene	ug/L	50	43.5	87	78-125	
Dibromochloromethane	ug/L	50	42.9	86	80-123	
Dibromomethane	ug/L	50	45.2	90	75-124	
Ethylbenzene	ug/L	50	51.3	103	80-123	
Iodomethane	ug/L	100	151	151	43-156	
Methylene Chloride	ug/L	50	47.0	94	62-126	
Styrene	ug/L	50	45.4	91	81-125	
Tetrachloroethene	ug/L	50	50.6	101	74-119	
Toluene	ug/L	50	47.9	96	77-117	
trans-1,2-Dichloroethene	ug/L	50	46.0	92	74-128	
trans-1,3-Dichloropropene	ug/L	50	43.4	87	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	150	75	42-134	
Trichloroethene	ug/L	50	50.3	101	75-119	
Trichlorofluoromethane	ug/L	50	51.3	103	57-152	
Vinyl acetate	ug/L	200	193	96	71-148	
Vinyl chloride	ug/L	50	55.5	111	62-137	
Xylene (Total)	ug/L	150	135	90	79-121	
4-Bromofluorobenzene (S)	%.			97	84-113	
Dibromofluoromethane (S)	%.			97	86-116	
Toluene-d8 (S)	%.			100	86-111	

MATRIX SPIKE SAMPLE: 1980770

Parameter	Units	50190562002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	45.5	91	48-143	
1,1,1-Trichloroethane	ug/L	ND	50	50.3	101	52-142	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	39.2	78	48-143	
1,1,2-Trichloroethane	ug/L	ND	50	40.5	81	51-139	
1,1-Dichloroethane	ug/L	ND	50	44.7	89	53-139	
1,1-Dichloroethene	ug/L	ND	50	48.5	97	50-149	
1,2,3-Trichloropropane	ug/L	ND	50	41.0	82	49-149	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	42.7	85	35-137	
1,2-Dibromoethane (EDB)	ug/L	ND	50	44.6	89	54-141	
1,2-Dichlorobenzene	ug/L	ND	50	43.3	87	33-142	
1,2-Dichloroethane	ug/L	ND	50	40.5	81	47-138	
1,2-Dichloropropane	ug/L	ND	50	46.9	94	55-142	
1,4-Dichlorobenzene	ug/L	ND	50	42.5	85	27-140	
2-Butanone (MEK)	ug/L	ND	250	213	85	39-159	
2-Hexanone	ug/L	ND	250	205	82	47-151	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	211	84	48-146	
Acetone	ug/L	ND	250	230	92	31-152	
Acrylonitrile	ug/L	ND	200	160	80	42-143	
Benzene	ug/L	ND	50	49.4	99	57-136	
Bromochloromethane	ug/L	ND	50	49.3	99	50-145	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

MATRIX SPIKE SAMPLE: 1980770

Parameter	Units	50190562002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	ND	50	41.3	83	49-142	
Bromoform	ug/L	ND	50	39.3	79	39-131	
Bromomethane	ug/L	ND	50	48.2	96	10-162	
Carbon disulfide	ug/L	ND	50	50.5	101	34-142	
Carbon tetrachloride	ug/L	ND	50	46.2	92	47-150	
Chlorobenzene	ug/L	ND	50	45.0	90	42-138	
Chloroethane	ug/L	ND	50	55.8	112	34-148	
Chloroform	ug/L	ND	50	47.8	96	54-136	
Chloromethane	ug/L	ND	50	54.2	108	27-138	
cis-1,2-Dichloroethene	ug/L	ND	50	48.7	97	48-147	
cis-1,3-Dichloropropene	ug/L	ND	50	40.5	81	40-142	
Dibromochloromethane	ug/L	ND	50	41.0	82	46-143	
Dibromomethane	ug/L	ND	50	43.3	87	53-140	
Ethylbenzene	ug/L	ND	50	50.1	100	40-147	
Iodomethane	ug/L	ND	100	59.4	59	13-136	
Methylene Chloride	ug/L	ND	50	45.1	90	40-138	
Styrene	ug/L	ND	50	42.0	84	34-149	
Tetrachloroethene	ug/L	ND	50	49.2	98	37-144	
Toluene	ug/L	ND	50	46.4	93	46-137	
trans-1,2-Dichloroethene	ug/L	ND	50	44.7	89	51-145	
trans-1,3-Dichloropropene	ug/L	ND	50	39.9	80	41-143	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	107	54	10-145	
Trichloroethene	ug/L	ND	50	48.3	97	45-139	
Trichlorofluoromethane	ug/L	ND	50	52.2	104	42-164	
Vinyl acetate	ug/L	ND	200	111	56	10-149	
Vinyl chloride	ug/L	ND	50	56.1	112	43-154	
Xylene (Total)	ug/L	ND	150	130	87	37-146	
4-Bromofluorobenzene (S)	%.				98	84-113	
Dibromofluoromethane (S)	%.				100	86-116	
Toluene-d8 (S)	%.				100	86-111	

SAMPLE DUPLICATE: 1980771

Parameter	Units	50190562003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

SAMPLE DUPLICATE: 1980771

Parameter	Units	50190562003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	99	99	0		
Dibromofluoromethane (S)	%.	101	98	3		
Toluene-d8 (S)	%.	99	100	1		

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429630 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50190863009, 50190863010, 50190863011, 50190863012, 50190863013

METHOD BLANK: 1980774 Matrix: Water
Associated Lab Samples: 50190863009, 50190863010, 50190863011, 50190863012, 50190863013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/28/18 02:48	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/28/18 02:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/28/18 02:48	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/28/18 02:48	
1,1-Dichloroethane	ug/L	ND	5.0	02/28/18 02:48	
1,1-Dichloroethene	ug/L	ND	5.0	02/28/18 02:48	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/28/18 02:48	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/28/18 02:48	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/28/18 02:48	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/28/18 02:48	
1,2-Dichloroethane	ug/L	ND	5.0	02/28/18 02:48	
1,2-Dichloropropane	ug/L	ND	5.0	02/28/18 02:48	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/28/18 02:48	
2-Butanone (MEK)	ug/L	ND	10.0	02/28/18 02:48	
2-Hexanone	ug/L	ND	10.0	02/28/18 02:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/28/18 02:48	
Acetone	ug/L	ND	10.0	02/28/18 02:48	
Acrylonitrile	ug/L	ND	100	02/28/18 02:48	
Benzene	ug/L	ND	5.0	02/28/18 02:48	
Bromochloromethane	ug/L	ND	5.0	02/28/18 02:48	
Bromodichloromethane	ug/L	ND	5.0	02/28/18 02:48	
Bromoform	ug/L	ND	5.0	02/28/18 02:48	
Bromomethane	ug/L	ND	10.0	02/28/18 02:48	
Carbon disulfide	ug/L	ND	10.0	02/28/18 02:48	
Carbon tetrachloride	ug/L	ND	5.0	02/28/18 02:48	
Chlorobenzene	ug/L	ND	5.0	02/28/18 02:48	
Chloroethane	ug/L	ND	10.0	02/28/18 02:48	
Chloroform	ug/L	ND	5.0	02/28/18 02:48	
Chloromethane	ug/L	ND	10.0	02/28/18 02:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/28/18 02:48	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/28/18 02:48	
Dibromochloromethane	ug/L	ND	5.0	02/28/18 02:48	
Dibromomethane	ug/L	ND	10.0	02/28/18 02:48	
Ethylbenzene	ug/L	ND	5.0	02/28/18 02:48	
Iodomethane	ug/L	ND	5.0	02/28/18 02:48	
Methylene Chloride	ug/L	ND	5.0	02/28/18 02:48	
Styrene	ug/L	ND	5.0	02/28/18 02:48	
Tetrachloroethene	ug/L	ND	5.0	02/28/18 02:48	
Toluene	ug/L	ND	5.0	02/28/18 02:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/28/18 02:48	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/28/18 02:48	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

METHOD BLANK: 1980774 Matrix: Water
Associated Lab Samples: 50190863009, 50190863010, 50190863011, 50190863012, 50190863013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	02/28/18 02:48	
Trichloroethene	ug/L	ND	5.0	02/28/18 02:48	
Trichlorofluoromethane	ug/L	ND	10.0	02/28/18 02:48	
Vinyl acetate	ug/L	ND	10.0	02/28/18 02:48	
Vinyl chloride	ug/L	ND	2.0	02/28/18 02:48	
Xylene (Total)	ug/L	ND	5.0	02/28/18 02:48	
4-Bromofluorobenzene (S)	%.	98	84-113	02/28/18 02:48	
Dibromofluoromethane (S)	%.	99	86-116	02/28/18 02:48	
Toluene-d8 (S)	%.	99	86-111	02/28/18 02:48	

LABORATORY CONTROL SAMPLE: 1980775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.9	88	80-123	
1,1,1-Trichloroethane	ug/L	50	42.4	85	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	74-124	
1,1,2-Trichloroethane	ug/L	50	47.5	95	79-121	
1,1-Dichloroethane	ug/L	50	47.0	94	77-122	
1,1-Dichloroethene	ug/L	50	45.4	91	70-131	
1,2,3-Trichloropropane	ug/L	50	45.8	92	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	50.2	100	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	44.7	89	81-123	
1,2-Dichlorobenzene	ug/L	50	47.3	95	77-118	
1,2-Dichloroethane	ug/L	50	41.2	82	72-119	
1,2-Dichloropropane	ug/L	50	47.5	95	78-125	
1,4-Dichlorobenzene	ug/L	50	46.0	92	72-118	
2-Butanone (MEK)	ug/L	250	200	80	61-150	
2-Hexanone	ug/L	250	237	95	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	242	97	71-131	
Acetone	ug/L	250	228	91	39-166	
Acrylonitrile	ug/L	200	173	87	62-130	
Benzene	ug/L	50	44.8	90	79-120	
Bromochloromethane	ug/L	50	47.4	95	69-136	
Bromodichloromethane	ug/L	50	38.3	77	76-125	
Bromoform	ug/L	50	43.2	86	69-119	
Bromomethane	ug/L	50	35.7	71	27-161	
Carbon disulfide	ug/L	50	47.6	95	60-130	
Carbon tetrachloride	ug/L	50	45.0	90	74-132	
Chlorobenzene	ug/L	50	45.9	92	77-116	
Chloroethane	ug/L	50	39.9	80	51-132	
Chloroform	ug/L	50	40.1	80	76-118	
Chloromethane	ug/L	50	39.7	79	46-126	
cis-1,2-Dichloroethene	ug/L	50	44.2	88	74-126	
cis-1,3-Dichloropropene	ug/L	50	46.8	94	78-125	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

LABORATORY CONTROL SAMPLE: 1980775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	43.9	88	80-123	
Dibromomethane	ug/L	50	45.5	91	75-124	
Ethylbenzene	ug/L	50	45.1	90	80-123	
Iodomethane	ug/L	100	96.1	96	43-156	
Methylene Chloride	ug/L	50	45.4	91	62-126	
Styrene	ug/L	50	46.2	92	81-125	
Tetrachloroethene	ug/L	50	45.9	92	74-119	
Toluene	ug/L	50	44.8	90	77-117	
trans-1,2-Dichloroethene	ug/L	50	43.1	86	74-128	
trans-1,3-Dichloropropene	ug/L	50	43.7	87	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	145	73	42-134	
Trichloroethene	ug/L	50	43.0	86	75-119	
Trichlorofluoromethane	ug/L	50	50.4	101	57-152	
Vinyl acetate	ug/L	200	193	96	71-148	
Vinyl chloride	ug/L	50	47.4	95	62-137	
Xylene (Total)	ug/L	150	134	89	79-121	
4-Bromofluorobenzene (S)	%.			98	84-113	
Dibromofluoromethane (S)	%.			97	86-116	
Toluene-d8 (S)	%.			99	86-111	

MATRIX SPIKE SAMPLE: 1980776

Parameter	Units	50190863011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	43.5	87	48-143	
1,1,1-Trichloroethane	ug/L	ND	50	44.1	88	52-142	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.1	92	48-143	
1,1,2-Trichloroethane	ug/L	ND	50	45.0	90	51-139	
1,1-Dichloroethane	ug/L	ND	50	45.9	92	53-139	
1,1-Dichloroethene	ug/L	ND	50	48.4	97	50-149	
1,2,3-Trichloropropane	ug/L	ND	50	43.0	86	49-149	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50.2	100	35-137	
1,2-Dibromoethane (EDB)	ug/L	ND	50	44.3	89	54-141	
1,2-Dichlorobenzene	ug/L	ND	50	46.2	92	33-142	
1,2-Dichloroethane	ug/L	ND	50	39.9	80	47-138	
1,2-Dichloropropane	ug/L	ND	50	45.4	91	55-142	
1,4-Dichlorobenzene	ug/L	ND	50	45.6	91	27-140	
2-Butanone (MEK)	ug/L	ND	250	215	86	39-159	
2-Hexanone	ug/L	ND	250	246	98	47-151	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	243	97	48-146	
Acetone	ug/L	ND	250	252	101	31-152	
Acrylonitrile	ug/L	ND	200	170	85	42-143	
Benzene	ug/L	ND	50	45.4	91	57-136	
Bromochloromethane	ug/L	ND	50	46.5	93	50-145	
Bromodichloromethane	ug/L	ND	50	37.5	75	49-142	
Bromoform	ug/L	ND	50	41.3	83	39-131	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

MATRIX SPIKE SAMPLE: 1980776

Parameter	Units	50190863011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	ND	50	34.3	69	10-162	
Carbon disulfide	ug/L	ND	50	50.9	102	34-142	
Carbon tetrachloride	ug/L	ND	50	49.0	98	47-150	
Chlorobenzene	ug/L	ND	50	45.1	90	42-138	
Chloroethane	ug/L	ND	50	40.7	81	34-148	
Chloroform	ug/L	ND	50	40.3	81	54-136	
Chloromethane	ug/L	ND	50	40.4	81	27-138	
cis-1,2-Dichloroethene	ug/L	ND	50	44.5	89	48-147	
cis-1,3-Dichloropropene	ug/L	ND	50	43.1	86	40-142	
Dibromochloromethane	ug/L	ND	50	42.0	84	46-143	
Dibromomethane	ug/L	ND	50	43.7	87	53-140	
Ethylbenzene	ug/L	ND	50	44.0	88	40-147	
Iodomethane	ug/L	ND	100	78.0	78	13-136	
Methylene Chloride	ug/L	ND	50	41.6	83	40-138	
Styrene	ug/L	ND	50	44.9	90	34-149	
Tetrachloroethene	ug/L	ND	50	49.1	98	37-144	
Toluene	ug/L	ND	50	45.2	90	46-137	
trans-1,2-Dichloroethene	ug/L	ND	50	44.6	89	51-145	
trans-1,3-Dichloropropene	ug/L	ND	50	41.7	83	41-143	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	112	56	10-145	
Trichloroethene	ug/L	ND	50	45.0	90	45-139	
Trichlorofluoromethane	ug/L	ND	50	56.7	113	42-164	
Vinyl acetate	ug/L	ND	200	121	61	10-149	
Vinyl chloride	ug/L	ND	50	51.8	104	43-154	
Xylene (Total)	ug/L	ND	150	134	89	37-146	
4-Bromofluorobenzene (S)	%.				100	84-113	
Dibromofluoromethane (S)	%.				99	86-116	
Toluene-d8 (S)	%.				101	86-111	

SAMPLE DUPLICATE: 1980777

Parameter	Units	50190863012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	.88J		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	6.4	6.1	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

SAMPLE DUPLICATE: 1980777

Parameter	Units	50190863012 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	19.3	18.8	3	20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	102	102	1	20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	99	101	1		
Dibromofluoromethane (S)	%.	100	99	1		
Toluene-d8 (S)	%.	100	102	1		

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 430610 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50191007001, 50191007002, 50191007003, 50191007004, 50191007005, 50191007006

METHOD BLANK: 1986442 Matrix: Water
Associated Lab Samples: 50191007001, 50191007002, 50191007003, 50191007004, 50191007005, 50191007006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	03/07/18 05:02	
1,1,1-Trichloroethane	ug/L	ND	5.0	03/07/18 05:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/07/18 05:02	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/07/18 05:02	
1,1-Dichloroethane	ug/L	ND	5.0	03/07/18 05:02	
1,1-Dichloroethene	ug/L	ND	5.0	03/07/18 05:02	
1,2,3-Trichloropropane	ug/L	ND	5.0	03/07/18 05:02	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	03/07/18 05:02	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	03/07/18 05:02	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/07/18 05:02	
1,2-Dichloroethane	ug/L	ND	5.0	03/07/18 05:02	
1,2-Dichloropropane	ug/L	ND	5.0	03/07/18 05:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/07/18 05:02	
2-Butanone (MEK)	ug/L	ND	10.0	03/07/18 05:02	
2-Hexanone	ug/L	ND	10.0	03/07/18 05:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/07/18 05:02	
Acetone	ug/L	ND	10.0	03/07/18 05:02	
Acrylonitrile	ug/L	ND	100	03/07/18 05:02	
Benzene	ug/L	ND	5.0	03/07/18 05:02	
Bromochloromethane	ug/L	ND	5.0	03/07/18 05:02	
Bromodichloromethane	ug/L	ND	5.0	03/07/18 05:02	
Bromoform	ug/L	ND	5.0	03/07/18 05:02	
Bromomethane	ug/L	ND	10.0	03/07/18 05:02	
Carbon disulfide	ug/L	ND	10.0	03/07/18 05:02	
Carbon tetrachloride	ug/L	ND	5.0	03/07/18 05:02	
Chlorobenzene	ug/L	ND	5.0	03/07/18 05:02	
Chloroethane	ug/L	ND	10.0	03/07/18 05:02	
Chloroform	ug/L	ND	5.0	03/07/18 05:02	
Chloromethane	ug/L	ND	10.0	03/07/18 05:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/07/18 05:02	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/07/18 05:02	
Dibromochloromethane	ug/L	ND	5.0	03/07/18 05:02	
Dibromomethane	ug/L	ND	10.0	03/07/18 05:02	
Ethylbenzene	ug/L	ND	5.0	03/07/18 05:02	
Iodomethane	ug/L	ND	5.0	03/07/18 05:02	
Methylene Chloride	ug/L	ND	5.0	03/07/18 05:02	
Styrene	ug/L	ND	5.0	03/07/18 05:02	
Tetrachloroethene	ug/L	ND	5.0	03/07/18 05:02	
Toluene	ug/L	ND	5.0	03/07/18 05:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/07/18 05:02	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/07/18 05:02	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

METHOD BLANK: 1986442 Matrix: Water
Associated Lab Samples: 50191007001, 50191007002, 50191007003, 50191007004, 50191007005, 50191007006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	03/07/18 05:02	
Trichloroethene	ug/L	ND	5.0	03/07/18 05:02	
Trichlorofluoromethane	ug/L	ND	10.0	03/07/18 05:02	
Vinyl acetate	ug/L	ND	10.0	03/07/18 05:02	
Vinyl chloride	ug/L	ND	2.0	03/07/18 05:02	
Xylene (Total)	ug/L	ND	5.0	03/07/18 05:02	
4-Bromofluorobenzene (S)	%.	95	84-113	03/07/18 05:02	
Dibromofluoromethane (S)	%.	96	86-116	03/07/18 05:02	
Toluene-d8 (S)	%.	104	86-111	03/07/18 05:02	

LABORATORY CONTROL SAMPLE: 1986443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.5	95	80-123	
1,1,1-Trichloroethane	ug/L	50	45.4	91	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	44.2	88	74-124	
1,1,2-Trichloroethane	ug/L	50	48.8	98	79-121	
1,1-Dichloroethane	ug/L	50	44.2	88	77-122	
1,1-Dichloroethene	ug/L	50	45.8	92	70-131	
1,2,3-Trichloropropane	ug/L	50	44.6	89	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	40.9	82	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	46.5	93	81-123	
1,2-Dichlorobenzene	ug/L	50	44.7	89	77-118	
1,2-Dichloroethane	ug/L	50	42.4	85	72-119	
1,2-Dichloropropane	ug/L	50	45.1	90	78-125	
1,4-Dichlorobenzene	ug/L	50	45.0	90	72-118	
2-Butanone (MEK)	ug/L	250	227	91	61-150	
2-Hexanone	ug/L	250	206	82	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	221	88	71-131	
Acetone	ug/L	250	219	88	39-166	
Acrylonitrile	ug/L	200	156	78	62-130	
Benzene	ug/L	50	44.3	89	79-120	
Bromochloromethane	ug/L	50	46.0	92	69-136	
Bromodichloromethane	ug/L	50	40.1	80	76-125	
Bromoform	ug/L	50	42.3	85	69-119	
Bromomethane	ug/L	50	39.6	79	27-161	
Carbon disulfide	ug/L	50	39.7	79	60-130	
Carbon tetrachloride	ug/L	50	45.4	91	74-132	
Chlorobenzene	ug/L	50	47.9	96	77-116	
Chloroethane	ug/L	50	43.0	86	51-132	
Chloroform	ug/L	50	42.0	84	76-118	
Chloromethane	ug/L	50	35.9	72	46-126	
cis-1,2-Dichloroethene	ug/L	50	42.6	85	74-126	
cis-1,3-Dichloropropene	ug/L	50	48.8	98	78-125	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

LABORATORY CONTROL SAMPLE: 1986443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	46.5	93	80-123	
Dibromomethane	ug/L	50	43.4	87	75-124	
Ethylbenzene	ug/L	50	47.3	95	80-123	
Iodomethane	ug/L	100	116	116	43-156	
Methylene Chloride	ug/L	50	44.6	89	62-126	
Styrene	ug/L	50	47.3	95	81-125	
Tetrachloroethene	ug/L	50	45.6	91	74-119	
Toluene	ug/L	50	49.9	100	77-117	
trans-1,2-Dichloroethene	ug/L	50	43.8	88	74-128	
trans-1,3-Dichloropropene	ug/L	50	45.1	90	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	158	79	42-134	
Trichloroethene	ug/L	50	43.8	88	75-119	
Trichlorofluoromethane	ug/L	50	44.4	89	57-152	
Vinyl acetate	ug/L	200	160	80	71-148	
Vinyl chloride	ug/L	50	44.2	88	62-137	
Xylene (Total)	ug/L	150	145	96	79-121	
4-Bromofluorobenzene (S)	%.			97	84-113	
Dibromofluoromethane (S)	%.			95	86-116	
Toluene-d8 (S)	%.			107	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1986444 1986445

Parameter	Units	50191079004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	42.8	41.8	86	84	48-143	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	43.5	41.7	87	83	52-142	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	47.7	47.1	95	94	48-143	1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	48.7	46.7	97	93	51-139	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	43.4	40.6	87	81	53-139	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	44.3	41.9	89	84	50-149	5	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	53.1	51.7	106	103	49-149	3	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	44.5	43.7	89	87	35-137	2	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	45.2	45.5	90	91	54-141	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	35.4	34.6	71	69	33-142	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	44.2	42.9	88	86	47-138	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	45.3	44.5	91	89	55-142	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	32.2	32.1	64	64	27-140	0	20	
2-Butanone (MEK)	ug/L	ND	250	250	245	241	98	96	39-159	2	20	
2-Hexanone	ug/L	ND	250	250	220	217	88	87	47-151	1	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	240	233	96	93	48-146	3	20	
Acetone	ug/L	ND	250	250	234	229	93	92	31-152	2	20	
Acrylonitrile	ug/L	ND	200	200	167	163	84	81	42-143	3	20	
Benzene	ug/L	ND	50	50	42.1	41.0	84	82	57-136	3	20	
Bromochloromethane	ug/L	ND	50	50	44.2	43.7	88	87	50-145	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1986444 1986445

Parameter	Units	50191079004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromodichloromethane	ug/L	ND	50	50	39.5	38.8	79	78	49-142	2	20	
Bromoform	ug/L	ND	50	50	42.4	42.4	85	85	39-131	0	20	
Bromomethane	ug/L	ND	50	50	19.8	17.8	40	36	10-162	11	20	
Carbon disulfide	ug/L	ND	50	50	37.2	35.3	74	71	34-142	5	20	
Carbon tetrachloride	ug/L	ND	50	50	41.7	40.4	83	81	47-150	3	20	
Chlorobenzene	ug/L	ND	50	50	38.7	38.2	77	76	42-138	1	20	
Chloroethane	ug/L	ND	50	50	226	252	451	503	34-148	11	20	M1
Chloroform	ug/L	ND	50	50	41.5	38.8	83	78	54-136	7	20	
Chloromethane	ug/L	ND	50	50	35.8	33.3	72	67	27-138	7	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	42.1	40.7	84	81	48-147	3	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.2	44.2	88	88	40-142	0	20	
Dibromochloromethane	ug/L	ND	50	50	43.9	44.6	88	89	46-143	1	20	
Dibromomethane	ug/L	ND	50	50	45.0	42.4	90	85	53-140	6	20	
Ethylbenzene	ug/L	ND	50	50	35.1	34.9	70	70	40-147	1	20	
Iodomethane	ug/L	ND	100	100	84.5	82.2	85	82	13-136	3	20	
Methylene Chloride	ug/L	ND	50	50	38.9	36.0	78	72	40-138	8	20	
Styrene	ug/L	ND	50	50	35.5	35.1	71	70	34-149	1	20	
Tetrachloroethene	ug/L	ND	50	50	34.5	33.9	69	68	37-144	2	20	
Toluene	ug/L	ND	50	50	42.3	40.9	84	81	46-137	4	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.1	39.2	82	78	51-145	5	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	43.1	41.7	86	83	41-143	3	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	158	152	79	76	10-145	4	20	
Trichloroethene	ug/L	ND	50	50	39.4	37.6	79	75	45-139	5	20	
Trichlorofluoromethane	ug/L	ND	50	50	43.2	40.7	86	81	42-164	6	20	
Vinyl acetate	ug/L	ND	200	200	149	145	75	73	10-149	3	20	
Vinyl chloride	ug/L	ND	50	50	43.9	41.3	88	83	43-154	6	20	
Xylene (Total)	ug/L	ND	150	150	106	106	71	70	37-146	0	20	
4-Bromofluorobenzene (S)	%.						96	95	84-113			
Dibromofluoromethane (S)	%.						94	96	86-116			
Toluene-d8 (S)	%.						106	106	86-111			

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429278 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004

METHOD BLANK: 1978619 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/24/18 11:15	

LABORATORY CONTROL SAMPLE: 1978620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	297	99	80-120	

SAMPLE DUPLICATE: 1978621

Parameter	Units	50190778002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	495	506	2	10	

SAMPLE DUPLICATE: 1978622

Parameter	Units	50190863004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	487	494	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429279 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50190863005, 50190863006, 50190863007

METHOD BLANK: 1978623 Matrix: Water
Associated Lab Samples: 50190863005, 50190863006, 50190863007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/24/18 11:26	

LABORATORY CONTROL SAMPLE: 1978624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	277	92	80-120	

SAMPLE DUPLICATE: 1978625

Parameter	Units	50190863007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	581	593	2	10	

SAMPLE DUPLICATE: 1978626

Parameter	Units	50190876009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	555	554	0	10	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429496 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50190863008, 50190863009, 50190863010, 50190863011

METHOD BLANK: 1979709 Matrix: Water
Associated Lab Samples: 50190863008, 50190863009, 50190863010, 50190863011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/27/18 09:40	

LABORATORY CONTROL SAMPLE: 1979710

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	80-120	

SAMPLE DUPLICATE: 1979711

Parameter	Units	50190782001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1380	1370	0	10	

SAMPLE DUPLICATE: 1979712

Parameter	Units	50190853003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2840	2830	0	10	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429665
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50190863012

METHOD BLANK: 1980851
Matrix: Water
Associated Lab Samples: 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/28/18 09:11	

LABORATORY CONTROL SAMPLE: 1980852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	298	99	80-120	

SAMPLE DUPLICATE: 1980853

Parameter	Units	50190875026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	403	395	2	10	

SAMPLE DUPLICATE: 1980854

Parameter	Units	50190875033 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	407	396	3	10	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429924 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1982025 Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	03/01/18 11:56	

LABORATORY CONTROL SAMPLE: 1982026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	258	86	80-120	

SAMPLE DUPLICATE: 1982027

Parameter	Units	50190963011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1982028

Parameter	Units	50191103002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	506	514	2	10	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429360 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 50190863001

METHOD BLANK: 1978933 | Matrix: Water
Associated Lab Samples: 50190863001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/26/18 13:36	

LABORATORY CONTROL SAMPLE: 1978934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978935 1978936

Parameter	Units	50190777001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	36.4	50	50	90.5	87.4	108	102	90-110	3	20	

MATRIX SPIKE SAMPLE: 1978937

Parameter	Units	50190780005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	61.2	118	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429362 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1978942 Matrix: Water
Associated Lab Samples: 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/26/18 15:21	

LABORATORY CONTROL SAMPLE: 1978943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978944 1978945

Parameter	Units	50190863008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	50	50	60.6	59.3	115	112	90-110	2	20	M3

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429569 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50190863002, 50190863003, 50190863004, 50190863005, 50190863006

METHOD BLANK: 1980247 Matrix: Water
Associated Lab Samples: 50190863002, 50190863003, 50190863004, 50190863005, 50190863006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/27/18 15:28	

LABORATORY CONTROL SAMPLE: 1980248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1980249 1980250

Parameter	Units	50190863004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	50	50	57.9	57.3	116	115	90-110	1	20	M3

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429976 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1982625 Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/01/18 16:14	

LABORATORY CONTROL SAMPLE: 1982626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1982627 1982628

Parameter	Units	50191032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	15.3	50	50	74.5	71.8	118	113	90-110	4	20	M3

MATRIX SPIKE SAMPLE: 1982629

Parameter	Units	50191083001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	13.9	50	69.4	111	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429345 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006

METHOD BLANK: 1978867 | Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	02/26/18 11:27	

LABORATORY CONTROL SAMPLE: 1978868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978869 1978870

Parameter	Units	50190657002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.86	2	2	2.9	2.9	101	100	90-110	0	20	

MATRIX SPIKE SAMPLE: 1978871

Parameter	Units	50190658002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.0	99	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429375 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1978979 | Matrix: Water
Associated Lab Samples: 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	02/26/18 12:22	

LABORATORY CONTROL SAMPLE: 1978980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978981 1978982

Parameter	Units	50190863007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2	2	2.0	2.0	97	98	90-110	1	20	

MATRIX SPIKE SAMPLE: 1978983

Parameter	Units	50190889003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.1	102	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 430696 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1986731 | Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	03/07/18 11:19	

LABORATORY CONTROL SAMPLE: 1986732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1986733 1986734

Parameter	Units	50191135001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.32	2	2	2.3	2.3	100	101	90-110	1	20	

MATRIX SPIKE SAMPLE: 1986735

Parameter	Units	50190933006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.58	2	2.7	105	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429706 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1981015 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	03/01/18 10:39	

LABORATORY CONTROL SAMPLE: 1981016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.49	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1981017 1981018

Parameter	Units	50190761001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.20	.5	.5	0.69	0.68	98	96	90-110	2	20	

MATRIX SPIKE SAMPLE: 1981019

Parameter	Units	50190863001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	ND	.5	0.52	99	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429916 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1981959 | Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	03/07/18 09:30	

LABORATORY CONTROL SAMPLE: 1981960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1981961 1981962

Parameter	Units	50190933001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.21	.5	.5	0.70	0.70	97	97	90-110	0	20	

MATRIX SPIKE SAMPLE: 1981996

Parameter	Units	50191007003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.19	.5	0.65	92	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429349 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

METHOD BLANK: 1978890 Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50190863011, 50190863012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/26/18 12:59	

LABORATORY CONTROL SAMPLE: 1978891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.96	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1978892 1978893

Parameter	Units	50190853003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	2.1	1	1	3.1	3.1	93	93	90-110	0	20	

MATRIX SPIKE SAMPLE: 1978894

Parameter	Units	50190889001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.1	1	2.0	93	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429802 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

METHOD BLANK: 1981484 Matrix: Water
Associated Lab Samples: 50191007001, 50191007003, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/28/18 16:39	

LABORATORY CONTROL SAMPLE: 1981485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.93	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1981486 1981487

Parameter	Units	50190993004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.14	1	1	1.1	1.1	99	99	90-110	1	20	

MATRIX SPIKE SAMPLE: 1981488

Parameter	Units	50190889010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.71	1	1.6	94	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 429932 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50191007001, 50191007004, 50191007005

METHOD BLANK: 1982060 | Matrix: Water
Associated Lab Samples: 50190863001, 50190863002, 50190863003, 50190863004, 50190863005, 50190863006, 50190863007, 50190863008, 50190863009, 50190863010, 50191007001, 50191007004, 50191007005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	03/02/18 05:07	

LABORATORY CONTROL SAMPLE: 1982061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1982062 1982063

Parameter	Units	50190863001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	12.7	10	10	22.8	22.7	101	101	80-120	0	20	E

MATRIX SPIKE SAMPLE: 1982064

Parameter	Units	50190888003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	10	12.2	97	80-120	

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

QC Batch: 431012 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50190863011, 50190863012, 50191007003

METHOD BLANK: 1988722 | Matrix: Water
Associated Lab Samples: 50190863011, 50190863012, 50191007003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	03/12/18 09:13	

LABORATORY CONTROL SAMPLE: 1988723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1988724 1988725

Parameter	Units	50190782001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	281	200	200	498	500	108	109	80-120	0	20	E

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50190863001	PZ-111-SS		429879		
50190863002	PZ-111-SD		429879		
50190863003	PZ-109-SS		429879		
50190863004	PZ-205-SS		429879		
50190863005	PZ-106-SD		429879		
50190863006	PZ-106-SS		429879		
50190863007	PZ-105-SS		429879		
50190863008	PZ-100-SD		429879		
50190863009	PZ-100-SS		429879		
50190863010	PZ-201A-SS		429879		
50190863011	PZ-115-SS		429879		
50190863012	PZ-114-AS		429879		
50191007002	PZ-104-KS		429886		
50191007003	PZ-104-SD		429886		
50191007004	PZ-104-SS		429886		
50190863001	PZ-111-SS	EPA 9056	429440		
50190863002	PZ-111-SD	EPA 9056	429440		
50190863003	PZ-109-SS	EPA 9056	429440		
50190863004	PZ-205-SS	EPA 9056	429440		
50190863005	PZ-106-SD	EPA 9056	429440		
50190863006	PZ-106-SS	EPA 9056	429440		
50190863007	PZ-105-SS	EPA 9056	429440		
50190863008	PZ-100-SD	EPA 9056	429440		
50190863009	PZ-100-SS	EPA 9056	429440		
50190863010	PZ-201A-SS	EPA 9056	429440		
50190863011	PZ-115-SS	EPA 9056	429440		
50190863012	PZ-114-AS	EPA 9056	429440		
50191007001	Field Blank @ PZ-104-KS	EPA 9056	430582		
50191007003	PZ-104-SD	EPA 9056	430582		
50191007004	PZ-104-SS	EPA 9056	430582		
50191007005	PZ-104-SS DUP	EPA 9056	430582		
50190863001	PZ-111-SS	EPA 3010	429283	EPA 6010	430749
50190863002	PZ-111-SD	EPA 3010	429283	EPA 6010	430749
50190863003	PZ-109-SS	EPA 3010	429283	EPA 6010	430749
50190863004	PZ-205-SS	EPA 3010	429283	EPA 6010	430749
50190863005	PZ-106-SD	EPA 3010	429283	EPA 6010	430749
50190863006	PZ-106-SS	EPA 3010	429283	EPA 6010	430749
50190863007	PZ-105-SS	EPA 3010	429283	EPA 6010	430749
50190863008	PZ-100-SD	EPA 3010	429283	EPA 6010	430749
50190863009	PZ-100-SS	EPA 3010	429283	EPA 6010	430749
50190863010	PZ-201A-SS	EPA 3010	429283	EPA 6010	430749
50190863011	PZ-115-SS	EPA 3010	429283	EPA 6010	430749
50190863012	PZ-114-AS	EPA 3010	429283	EPA 6010	430749
50191007001	Field Blank @ PZ-104-KS	EPA 3010	429784	EPA 6010	430658
50191007003	PZ-104-SD	EPA 3010	429784	EPA 6010	430658
50191007004	PZ-104-SS	EPA 3010	429784	EPA 6010	430658

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50191007005	**PZ-104-SS DUP**	EPA 3010	429784	EPA 6010	430658
50190863001	**PZ-111-SS**	EPA 200.2	429624	EPA 6020	429848
50190863002	**PZ-111-SD**	EPA 200.2	429624	EPA 6020	429848
50190863003	**PZ-109-SS**	EPA 200.2	429624	EPA 6020	429848
50190863004	**PZ-205-SS**	EPA 200.2	429624	EPA 6020	429848
50190863005	**PZ-106-SD**	EPA 200.2	429624	EPA 6020	429848
50190863006	**PZ-106-SS**	EPA 200.2	429624	EPA 6020	429848
50190863007	**PZ-105-SS**	EPA 200.2	429624	EPA 6020	429848
50190863008	**PZ-100-SD**	EPA 200.2	429624	EPA 6020	429848
50190863009	**PZ-100-SS**	EPA 200.2	429624	EPA 6020	429848
50190863010	**PZ-201A-SS**	EPA 200.2	429624	EPA 6020	429848
50190863011	**PZ-115-SS**	EPA 200.2	429624	EPA 6020	429848
50190863012	**PZ-114-AS**	EPA 200.2	429624	EPA 6020	429848
50191007001	**Field Blank @ PZ-104-KS**	EPA 200.2	430780	EPA 6020	430841
50191007003	**PZ-104-SD**	EPA 200.2	430780	EPA 6020	430841
50191007004	**PZ-104-SS**	EPA 200.2	430780	EPA 6020	430841
50191007005	**PZ-104-SS DUP**	EPA 200.2	430780	EPA 6020	430841
50190863001	**PZ-111-SS**	EPA 7470	429478	EPA 7470	430639
50190863002	**PZ-111-SD**	EPA 7470	429478	EPA 7470	430639
50190863003	**PZ-109-SS**	EPA 7470	429478	EPA 7470	430639
50190863004	**PZ-205-SS**	EPA 7470	429478	EPA 7470	430639
50190863005	**PZ-106-SD**	EPA 7470	429478	EPA 7470	430639
50190863006	**PZ-106-SS**	EPA 7470	429478	EPA 7470	430639
50190863007	**PZ-105-SS**	EPA 7470	429478	EPA 7470	430639
50190863008	**PZ-100-SD**	EPA 7470	429478	EPA 7470	430639
50190863009	**PZ-100-SS**	EPA 7470	429478	EPA 7470	430639
50190863010	**PZ-201A-SS**	EPA 7470	429478	EPA 7470	430639
50190863011	**PZ-115-SS**	EPA 7470	429478	EPA 7470	430639
50190863012	**PZ-114-AS**	EPA 7470	429478	EPA 7470	430639
50191007001	**Field Blank @ PZ-104-KS**	EPA 7470	430143	EPA 7470	431029
50191007003	**PZ-104-SD**	EPA 7470	430143	EPA 7470	431029
50191007004	**PZ-104-SS**	EPA 7470	430143	EPA 7470	431029
50191007005	**PZ-104-SS DUP**	EPA 7470	430143	EPA 7470	431029
50190863001	**PZ-111-SS**	EPA 8260	429628		
50190863002	**PZ-111-SD**	EPA 8260	429628		
50190863003	**PZ-109-SS**	EPA 8260	429628		
50190863004	**PZ-205-SS**	EPA 8260	429628		
50190863005	**PZ-106-SD**	EPA 8260	429628		
50190863006	**PZ-106-SS**	EPA 8260	429628		
50190863007	**PZ-105-SS**	EPA 8260	429628		
50190863008	**PZ-100-SD**	EPA 8260	429628		
50190863009	**PZ-100-SS**	EPA 8260	429630		
50190863010	**PZ-201A-SS**	EPA 8260	429630		
50190863011	**PZ-115-SS**	EPA 8260	429630		
50190863012	**PZ-114-AS**	EPA 8260	429630		
50190863013	**Trip Blank**	EPA 8260	429630		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50191007001	Field Blank @ PZ-104-KS	EPA 8260	430610		
50191007002	PZ-104-KS	EPA 8260	430610		
50191007003	PZ-104-SD	EPA 8260	430610		
50191007004	PZ-104-SS	EPA 8260	430610		
50191007005	PZ-104-SS DUP	EPA 8260	430610		
50191007006	Trip Blank	EPA 8260	430610		
50190863001	PZ-111-SS	SM 2540C	429278		
50190863002	PZ-111-SD	SM 2540C	429278		
50190863003	PZ-109-SS	SM 2540C	429278		
50190863004	PZ-205-SS	SM 2540C	429278		
50190863005	PZ-106-SD	SM 2540C	429279		
50190863006	PZ-106-SS	SM 2540C	429279		
50190863007	PZ-105-SS	SM 2540C	429279		
50190863008	PZ-100-SD	SM 2540C	429496		
50190863009	PZ-100-SS	SM 2540C	429496		
50190863010	PZ-201A-SS	SM 2540C	429496		
50190863011	PZ-115-SS	SM 2540C	429496		
50190863012	PZ-114-AS	SM 2540C	429665		
50191007001	Field Blank @ PZ-104-KS	SM 2540C	429924		
50191007003	PZ-104-SD	SM 2540C	429924		
50191007004	PZ-104-SS	SM 2540C	429924		
50191007005	PZ-104-SS DUP	SM 2540C	429924		
50190863001	PZ-111-SS	EPA 410.4	429360	EPA 410.4	429397
50190863002	PZ-111-SD	EPA 410.4	429569	EPA 410.4	429579
50190863003	PZ-109-SS	EPA 410.4	429569	EPA 410.4	429579
50190863004	PZ-205-SS	EPA 410.4	429569	EPA 410.4	429579
50190863005	PZ-106-SD	EPA 410.4	429569	EPA 410.4	429579
50190863006	PZ-106-SS	EPA 410.4	429569	EPA 410.4	429579
50190863007	PZ-105-SS	EPA 410.4	429362	EPA 410.4	429531
50190863008	PZ-100-SD	EPA 410.4	429362	EPA 410.4	429531
50190863009	PZ-100-SS	EPA 410.4	429362	EPA 410.4	429531
50190863010	PZ-201A-SS	EPA 410.4	429362	EPA 410.4	429531
50190863011	PZ-115-SS	EPA 410.4	429362	EPA 410.4	429531
50190863012	PZ-114-AS	EPA 410.4	429362	EPA 410.4	429531
50191007001	Field Blank @ PZ-104-KS	EPA 410.4	429976	EPA 410.4	430079
50191007003	PZ-104-SD	EPA 410.4	429976	EPA 410.4	430079
50191007004	PZ-104-SS	EPA 410.4	429976	EPA 410.4	430079
50191007005	PZ-104-SS DUP	EPA 410.4	429976	EPA 410.4	430079
50190863001	PZ-111-SS	EPA 353.2	429345		
50190863002	PZ-111-SD	EPA 353.2	429345		
50190863003	PZ-109-SS	EPA 353.2	429345		
50190863004	PZ-205-SS	EPA 353.2	429345		
50190863005	PZ-106-SD	EPA 353.2	429345		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50190863006	PZ-106-SS	EPA 353.2	429345		
50190863007	PZ-105-SS	EPA 353.2	429375		
50190863008	PZ-100-SD	EPA 353.2	429375		
50190863009	PZ-100-SS	EPA 353.2	429375		
50190863010	PZ-201A-SS	EPA 353.2	429375		
50190863011	PZ-115-SS	EPA 353.2	429375		
50190863012	PZ-114-AS	EPA 353.2	429375		
50191007001	Field Blank @ PZ-104-KS	EPA 353.2	430696		
50191007003	PZ-104-SD	EPA 353.2	430696		
50191007004	PZ-104-SS	EPA 353.2	430696		
50191007005	PZ-104-SS DUP	EPA 353.2	430696		
50190863001	PZ-111-SS	EPA 365.1	429706	EPA 365.1	429762
50190863002	PZ-111-SD	EPA 365.1	429706	EPA 365.1	429762
50190863003	PZ-109-SS	EPA 365.1	429706	EPA 365.1	429762
50190863004	PZ-205-SS	EPA 365.1	429706	EPA 365.1	429762
50190863005	PZ-106-SD	EPA 365.1	429706	EPA 365.1	429762
50190863006	PZ-106-SS	EPA 365.1	429706	EPA 365.1	429762
50190863007	PZ-105-SS	EPA 365.1	429706	EPA 365.1	429762
50190863008	PZ-100-SD	EPA 365.1	429706	EPA 365.1	429762
50190863009	PZ-100-SS	EPA 365.1	429706	EPA 365.1	429762
50190863010	PZ-201A-SS	EPA 365.1	429706	EPA 365.1	429762
50190863011	PZ-115-SS	EPA 365.1	429706	EPA 365.1	429762
50190863012	PZ-114-AS	EPA 365.1	429706	EPA 365.1	429762
50191007001	Field Blank @ PZ-104-KS	EPA 365.1	429916	EPA 365.1	429957
50191007003	PZ-104-SD	EPA 365.1	429916	EPA 365.1	429957
50191007004	PZ-104-SS	EPA 365.1	429916	EPA 365.1	429957
50191007005	PZ-104-SS DUP	EPA 365.1	429916	EPA 365.1	429957
50190863001	PZ-111-SS	SM 4500-NH3 G	429349		
50190863002	PZ-111-SD	SM 4500-NH3 G	429349		
50190863003	PZ-109-SS	SM 4500-NH3 G	429349		
50190863004	PZ-205-SS	SM 4500-NH3 G	429349		
50190863005	PZ-106-SD	SM 4500-NH3 G	429349		
50190863006	PZ-106-SS	SM 4500-NH3 G	429349		
50190863007	PZ-105-SS	SM 4500-NH3 G	429349		
50190863008	PZ-100-SD	SM 4500-NH3 G	429349		
50190863009	PZ-100-SS	SM 4500-NH3 G	429349		
50190863010	PZ-201A-SS	SM 4500-NH3 G	429349		
50190863011	PZ-115-SS	SM 4500-NH3 G	429349		
50190863012	PZ-114-AS	SM 4500-NH3 G	429349		
50191007001	Field Blank @ PZ-104-KS	SM 4500-NH3 G	429802		
50191007003	PZ-104-SD	SM 4500-NH3 G	429802		
50191007004	PZ-104-SS	SM 4500-NH3 G	429802		
50191007005	PZ-104-SS DUP	SM 4500-NH3 G	429802		
50190863001	PZ-111-SS	SM 5310C	429932		
50190863002	PZ-111-SD	SM 5310C	429932		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton DMP 1Q 2018
Pace Project No.: 50190863

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50190863003	**PZ-109-SS**	SM 5310C	429932		
50190863004	**PZ-205-SS**	SM 5310C	429932		
50190863005	**PZ-106-SD**	SM 5310C	429932		
50190863006	**PZ-106-SS**	SM 5310C	429932		
50190863007	**PZ-105-SS**	SM 5310C	429932		
50190863008	**PZ-100-SD**	SM 5310C	429932		
50190863009	**PZ-100-SS**	SM 5310C	429932		
50190863010	**PZ-201A-SS**	SM 5310C	429932		
50190863011	**PZ-115-SS**	SM 5310C	431012		
50190863012	**PZ-114-AS**	SM 5310C	431012		
50191007001	**Field Blank @ PZ-104-KS**	SM 5310C	429932		
50191007003	**PZ-104-SD**	SM 5310C	431012		
50191007004	**PZ-104-SS**	SM 5310C	429932		
50191007005	**PZ-104-SS DUP**	SM 5310C	429932		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

CHB

Page : 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Republic Services - Missouri Landfills	Report To:	Jon Wilkinson	Attention:	
Address:	3377 Hollenberg Drive	Copy To:		Company Name:	
Bridgeton, MO 63044				Address:	
Email To:	jwilkinson@feezorengineering.com	Purchase Order #:		Pace Quote:	
Phone:	(636)578-8635 Fax	Project Name:	Bridgeton DMP 1Q 2018	Pace Project Manager:	chris.boyle@pacelabs.com
Requested Due Date:	Standard	Project #:		Pace Profile #:	4762 / 1

Regulatory Agency

State / Location: MO

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION (deg C)	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, Cl, F, SO4	COD,NH3,NO2+NO3,Phos	TOC by 5310	Metals, Total	VOC by 8260	Benzene Only 8260	Residual Chlorine (Y/N)	50190863
1	PZ-111-SS	WT	G		2/20/18		1046		7	1	2	1	3						X	X	X	X	X			001
2	PZ-111-SD	WT	G		2/20/18		1136		7	1	2	1	3						X	X	X	X	X			002
3	PZ-109-SS	WT	G		2/21/18		0850		7	1	2	1	3						X	X	X	X	X			003
4	PZ-205-SS	WT	G				1005		7	1	2	1	3						X	X	X	X	X			004
5	PZ-106-SD	WT	G				1158		7	1	2	1	3						X	X	X	X	X			005
6	PZ-106-SS	WT	G				1352		7	1	2	1	3						X	X	X	X	X			006
7	PZ-105-SS	WT	G		2/21/18		1516		7	1	2	1	3						X	X	X	X	X			007
8	PZ-100-SD	WT	G		2/22/18		1015		7	1	2	1	3						X	X	X	X	X			008
9	PZ-100-SS	WT	G				1049		7	1	2	1	3						X	X	X	X	X			009
10	PZ-201A-SS	WT	G				1130		7	1	2	1	3						X	X	X	X	X			010
11	PZ-115-SS	WT	G				1330		7	1	2	1	3						X	X	X	X	X			011
12	PZ-114-AS	WT	G		2/22/18		1401		7	1	2	1	3						X	X	X	X	X			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	IFGI	2/22/18	1700	Fed Ex	2/22/18	1700				
	Fedex	2/23/18	8:25	Jason Howft	2/23/18	8:25	2.5/1.7	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER: DATE Signed: 2/22/2018

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Republic Services - Missouri Landfills	Report To:	Jon Wilkinson	Attention:	
Address:	3377 Hollenberg Drive	Copy To:		Company Name:	
Bridgeton, MO 63044				Address:	
Email To:	jwilkinson@feezorengineering.com	Purchase Order #:		Pace Quote:	
Phone:	(636)578-8635 Fax	Project Name:	Bridgeton DMP 1Q 2018	Pace Project Manager:	chris.boyle@pacelabs.com
Requested Due Date:	Standard	Project #:		Pace Profile #:	4762 / 1

Regulatory Agency	State / Location
	MO

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION (deg C)	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	TDS, Cl, F, SO4	COD,NH3,NO2+NO3,Phos	TOC by 5310	Metals, Total	VOC by 8260	Benzene Only 8260							Residual Chlorine (Y/N)	50190863
1	Trip Blank	WT	G			2/22/18			3			3											X									813
2		WT	G																													
3		WT	G																													
4		WT	G																													
5		WT	G																													
6		WT	G																													
7		WT	G																													
8		WT	G																													
9		WT	G																													
10		WT	G																													
11		WT	G																													
12		WT	G																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	IFEI	2/22/18	1700	FedEx	2/22/18	1700				
	Fedex	2/23/18	8:25	Jason Hauff	2/23/18	825	2.6/2.7	Y	Y	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jonathan Wilkinson				
SIGNATURE of SAMPLER:	DATE Signed: 2/22/18				

Pace Analytical

SAMPLE CONDITION UPON RECEIPT FORM

Project #: 50190863

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 4275 9585 4150 / 4275 9585 4140

Custody Seal on Cooler/Box Present: ☒ Yes ☐ No **Seals Intact:** ☒ Yes ☐ No

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 A (B) C D E F Ice Type: ☒ Wet ☐ Blue ☐ None Samples Iced, Cooling has begun ☐ Yes ☐ No ☒ N/A

Cooler Temperature: 2.5/1.7 / 2.5/1.7 Ice Visible in Sample Containers?: ☐ Yes ☒ No ☐ N/A

(Initial/Corrected) Temp should be above freezing to 6°C If temp. is Over 6°C or under 0°C, was the PM Notified?: ☐ Yes ☐ No ☒ N/A

Date/Time and Initials of person examining contents: JH 2-23-18 6:04 **All discrepancies will be written out in the comments section below.**

	Yes	No	N/A		Yes	No	N/A
Are samples from West Virginia? Document any containers out of temp.		X		All containers needing acid/base pres. Have been checked?: **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** All containers needing preservation are found to be in compliance with EPA recommendation (≤2, >9, >12) unless otherwise noted. Circle: HNO3 H2SO4 NaOH NaOH/ZnAc	X		
USDA Regulated Soils? (ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		X					
Chain of Custody Present:	X						
Chain of Custody Filled Out:	X			Dissolved Metals field filtered?:			X
Short Hold Time Analysis (<72hr): Analysis:		X		Headspace Wisconsin Sulfide			X
Time 5035A TC placed in Freezer: _____					Present	Absent	N/A
				Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Short Holds To Lab:				Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Rush TAT Requested:		X		Headspace in VOA Vials (>6mm):		X	
Containers Intact?:	X			Trip Blank Present?:	X		
Sample Labels Match COC?: Except TCs, which only require sample ID	X			Custody Seals?:	X		

Comments:

Sample Container Count

CLIENT: REPUBLIC

COC PAGE 1 of 2

COC ID#

Project # 50190863

Sample Line Item	DG9H / VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk SBS DI Kit R				Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3					1						1		1	1						Wt	X		
2	3					1						1		1	1									
3	3					1						1		1	1									
4	3					1						1		1	1									
5	3					1						1		1	1									
6	3					1						1		1	1									
7	3					1						1		1	1									
8	3					1						1		1	1									
9	3					1						1		1	1									
10	3					1						1		1	1									
11	3					1						1		1	1									
12	3					1						1		1	1									

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

F-IN-Q-270-rev.10,31Aug2017

Sample Container Count

CLIENT: REPUBLIC

COC PAGE 2 of 2

COC ID# _____

Project # 50190863

Sample Line Item	DG9H / VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	SBS / DI / Bulk / Kit / R				Matrix SI/WI/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3																				wt			
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved amber vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved clear vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

F-IN-Q-270-rev.10,31Aug2017

FEEZOR ENGINEERING, INC

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-100-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 485.75

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/22/2018 1025

Casing Diameter (inches): 2

Initial Water Level (ft): 29.74

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 29.37 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 456.01

Total Volume Purged (mL): 7,100 mL

Ground Water Elev Previous Event (ft, msl): 456.38

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 44.09

Well Total Depth Previous Event (ft): Top of pump = 89.33 May 2017

Date/Time Completed: 2/22/2018 1047

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 47 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 96 ft

Average Purge Rate: 323 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,500 mL prior to first reading									
1035	3,500	350	15.5	7.16	823	1.76	1.94	88	WL: 37.20
1039	4,650	287	15.6	7.15	822	1.90	0.34	108	WL: 39.14
1043	5,790	285	15.5	7.16	805	1.29	2.71	120	WL: 41.58
1047	7,100	327	15.6	7.18	814	0.01	3.98	155	WL: 44.09
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 44.09

Well Collection Sequence #: 9 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/22/2018 1049	327	15.6	7.18	814	0.01	3.98	155	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/22/2018 0855

End of day: (Date/time) 2/22/2018 1430

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event				Sampling Event			
Start of day	End of day			Start of day	End of day		
0.02	N/A	NTU std =	0.02	N/A	0.19	NTU std =	0.02
10.05	N/A	NTU std =	10.0	N/A	10.26	NTU std =	10.0
1000	N/A	NTU std =	1,000	N/A	992.9	NTU std =	1,000
1436	N/A	µS std =	1,413	N/A	1437	µS std =	1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4	N/A	4.17	pH std =	4
6.98	N/A	pH std =	7	N/A	7.02	pH std =	7
Slope: 1.09 @ Temp 16.3°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A @ Temp N/A	Slope: 1.21 @ Temp 15.9°C	Dissolved O_2 Slope Range: 0.6 to 1.25	
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	245	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast Drizzle, 40°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/22/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-100-SD

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 485.72

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/22/2018 0938

Casing Diameter (inches): 2

Initial Water Level (ft): 32.56

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 31.42 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 453.16

Total Volume Purged (mL): 13,940 mL

Ground Water Elev Previous Event (ft, msl): 454.30

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 59.19

Well Total Depth Previous Event (ft): Top of pump = 96.21 May 2017

Date/Time Completed: 2/22/2018 1013

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 247 ft

Average Purge Rate: 398 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 10,000 mL prior to first reading									
1001	10,000	435	15.3	7.30	629	0.91	0.64	-36	WL: 52.10
1005	11,510	377	15.2	7.31	628	0.41	0.89	-32	WL: 54.61
1009	12,700	297	15.0	7.31	631	2.47	0.86	-35	WL: 56.98
1013	13,940	310	15.2	7.32	627	2.58	0.78	-31	WL: 59.19
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 59.19

Well Collection Sequence #: 9 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/22/2018 1015	398	15.2	7.32	627	2.58	0.78	-81	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/22/2018 0855

End of day: (Date/time) 2/22/2018 1430

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.19	NTU std =	0.02
10.05	N/A	NTU std =	10.0	N/A	10.26	NTU std =	10.0
1000	N/A	NTU std =	1,000	N/A	992.9	NTU std =	1,000
1436	N/A	µS std =	1,413	N/A	1437	µS std =	1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4	N/A	4.17	pH std =	4
6.98	N/A	pH std =	7	N/A	7.02	pH std =	7
Slope: 1.09 @ Temp 16.3°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A @ Temp N/A	Slope: 1.21 @ Temp 15.7°C	Dissolved O_2 Slope Range: 0.6 to 1.25	
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	245	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Drizzle, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/22/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-104-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 483.45

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/26/2018 1205

Casing Diameter (inches): 2

Initial Water Level (ft): 21.26

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 20.49 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 462.19

Total Volume Purged (mL): 9,400 mL

Ground Water Elev Previous Event (ft, msl): 462.96

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 40.30

Well Total Depth Previous Event (ft): Top of pump = 140.29 May 2017

Date/Time Completed: 2/26/2018 1236

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 75 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 147 ft

Average Purge Rate: 303 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading									
1224	6,000	316	25.9	6.62	782	1.76	1.02	-213	WL: 33.14
1228	6,850	212	25.8	6.60	784	0.94	1.53	-226	WL: 35.28
1232	8,050	300	25.7	6.60	787	0.63	~~0.64~~ 1.06	-227	WL: 37.60
1236	9,400	337	25.6	6.59	787	0.75	0.59	-229	WL: 40.30
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 40.30

Well Collection Sequence #: 15 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/26/2018 1238	303	25.6	6.59	787	0.75	0.59	-229	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/26/2018 0825

End of day: (Date/time) 2/26/2018 1400

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.01	N/A	NTU std =	0.02	N/A	0.37	NTU std =	0.02
10.09	N/A	NTU std =	10.0	N/A	10.09	NTU std =	10.0
998.1	N/A	NTU std =	1,000	N/A	974.7	NTU std =	1,000
1438	N/A	µS std =	1,413	N/A	1405	µS std =	1,413
Cell Const: 0.474	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.474	Cell Const Range:	0.45 - 0.50
4.16	N/A	pH std =	4	N/A	4.26	pH std =	4
7.02	N/A	pH std =	7	N/A	7.01	pH std =	7
Slope: 1.02	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 1.16	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 16.2°C	@ Temp N/A			@ Temp N/A	@ Temp 22.1°C		
257	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	258	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

collect PZ-104-SS DUP @ 1238 - 7 bottles

Date: 2/26/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-104-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 483.51

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/26/2018 1054

Casing Diameter (inches): 2

Initial Water Level (ft): 21.81

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 21.78 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 461.70

Total Volume Purged (mL): 15,500 mL

Ground Water Elev Previous Event (ft, msl): 461.73

Purged Dry?: Yes ____ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 27.56

Well Total Depth Previous Event (ft): Top of pump = 120.62 May 2017

Date/Time Completed: 2/26/2018 1134

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 65 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 247 ft

Average Purge Rate: 387 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 11,000 mL prior to first reading									
1122	11,000	393	25.6	6.82	2110	11.21	0.65	-128	WL: 27.50
1126	12,450	362	25.5	6.79	2770	1.75	0.97	-127	WL: 27.56
1130	14,000	387	25.6	6.75	2850	1.21	0.89	-132	WL: 27.57
1134	15,500	375	25.4	6.77	2670	0.48	0.69	-137	WL: 27.56
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 27.56

Well Collection Sequence #: 14 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/26/2018 1136	387	25.4	6.77	2670	0.48	0.69	-137	LFG odor aerated

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/26/2018 0825

End of day: (Date/time) 2/26/2018 1400

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.01	N/A	NTU std =	0.02	N/A	0.37	NTU std =	0.02
10.09	N/A	NTU std =	10.0	N/A	10.09	NTU std =	10.0
998.1	N/A	NTU std =	1,000	N/A	974.7	NTU std =	1,000
1438	N/A	µS std =	1,413	N/A	1405	µS std =	1,413
Cell Const: 0.474	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.474	Cell Const Range:	0.45 - 0.50
4.16	N/A	pH std =	4	N/A	4.26	pH std =	4
7.02	N/A	pH std =	7	N/A	7.01	pH std =	7
Slope: 1.08 @ Temp 16.2°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A @ Temp N/A	Slope: 1.16 @ Temp 22.1°C	Dissolved O_2 Slope Range: 0.6 to 1.25	
257	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	258	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 45°F

Sample Characteristics: ~~clear~~ LFG odor, aerated.

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/26/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: **Feezor Engineering, Inc.**

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-104-KS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 483.95

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/26/2018 0920

Casing Diameter (inches): 2

Initial Water Level (ft): 17.55

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 17.96 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 466.40

Total Volume Purged (mL): 22,150 mL

Ground Water Elev Previous Event (ft, msl): 465.99

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 27.91

Well Total Depth Previous Event (ft): Top of pump = 93.29 May 2017

Date/Time Completed: 2/26/2018

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

TD measured prior to pump installation = 409.26 ft

Average Purge Rate: 326 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 18,500 mL prior to first reading									
1016	18,500	330	24.5	7.15	799	1.86	0.45	-92	WL: 27.69
1020	19,550	262	24.5	7.16	805	1.44	0.50	-94	WL: 27.82
1024	20,800	312	24.5	7.16	804	1.26	0.57	-100	WL: 27.83
1028	22,150	337	24.6	7.16	806	1.10	~~0.88~~ 0.62	-98	WL: 27.91
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-KS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 27.91

Well Collection Sequence #: 13 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Verification Sampling

SAMPLE DATA:

Time & Date 2/26/2018	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
1030	326	24.6	7.16	806	1.10	0.62	-98	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/26/2018 0825

End of day: (Date/time) 2/26/2018 1400

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.01	N/A	NTU std =	0.02	N/A	0.37	NTU std =	0.02
10.09	N/A	NTU std =	10.0	N/A	10.09	NTU std =	10.0
998.1	N/A	NTU std =	1,000	N/A	971.7	NTU std =	1,000
1438	N/A	µS std =	1,413	N/A	1405	µS std =	1,413
Cell Const: 0.474	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.474	Cell Const Range:	0.45 - 0.50
4.16	N/A	pH std =	4	N/A	4.26	pH std =	4
7.02	N/A	pH std =	7	N/A	7.01	pH std =	7
Slope: 1.08	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 1.16	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 16.2°C	@ Temp N/A			@ Temp N/A	@ Temp 22.1°C		
257	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	258	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 3 VOCs only

collect Field Blank @ PZ-104-KS @ 0910 - 7 bottles

Date: 2/26/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-105-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 483.51

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No ____

Date/Time Initiated: 2/21/2018 1446

Casing Diameter (inches): 2

Initial Water Level (ft): 24.04

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 23.85 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 459.47

Total Volume Purged (mL): 10,150 mL

Ground Water Elev Previous Event (ft, msl): 459.66

Purged Dry?: Yes ____ No ✓

1HT
1HT

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 44.34

Well Total Depth Previous Event (ft): Top of pump = 144.82 May 2017

Date/Time Completed: 2/21/2018 1514

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 75 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 151 ft

Average Purge Rate: 362 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading									
1502	6,000	375	19.5	7.19	1102	1.86	1.90	-57	WL: 36.06
1506	7,090	272	19.4	7.19	1109	2.22	1.68	-54	WL: 38.88
1510	8,950	465	19.5	7.17	1093	2.24	2.75	-41	WL: 41.70
1514	10,150	300	19.4	7.16	1079	1.92	1.19	-30	WL: 44.34
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-105-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 44.34

Well Collection Sequence #: 7 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/21/2018 1516	362	19.4	7.16	1079	1.42	1.19	-30	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/21/2018 0745

End of day: (Date/time) 2/21/2018 1540

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.41	NTU std =	0.02
10.15	N/A	NTU std =	10.0	N/A	10.31	NTU std =	10.0
993.1	N/A	NTU std =	1,000	N/A	992.8	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1419	µS std =	1,413
Cell Const: 0.475	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.475	Cell Const Range:	0.45 - 0.50
4.13	N/A	pH std =	4	N/A	4.20	pH std =	4
6.98	N/A	pH std =	7	N/A	7.05	pH std =	7
Slope: 1.10 @ Temp 16.0°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A @ Temp N/A	Slope: 1.18 @ Temp 12.2°C	Dissolved O_2 Slope Range: 0.6 to 1.25	
256	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	259	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 30°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/21/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-106-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 462.71

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/21/2018 1316

Casing Diameter (inches): 2

Initial Water Level (ft): 14.75

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 14.49 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 447.96

Total Volume Purged (mL): 10,050 mL

Ground Water Elev Previous Event (ft, msl): 448.22

Purged Dry?: Yes No ✓

WT Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 31.49

WT Well Total Depth Previous Event (ft): Top of pump = 161.39 May 2017

Date/Time Completed: 2/21/2018 1350

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 167 ft

Average Purge Rate: 296 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 7,000 mL prior to first reading									
1338	7,000	318	20.4	6.98	1101	1.87	1.64	-125	WL: 27.15
1342	7,860	215	20.6	6.99	1104	1.81	1.43	-131	WL: 28.57
1346	9,200	335	20.9	6.98	1103	1.67	1.28	-135	WL: 30.11
1350	10,050	212	20.8	6.99	1101	2.02	1.11	-135	WL: 31.49
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-106-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 31.49

Well Collection Sequence #: 6 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/21/2018 1352	296	20.8	6.99	1101	2.02	1.11	-135	N/A

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/21/2018 0745

End of day: (Date/time) 2/21/2018 1540

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event				Sampling Event			
Start of day	End of day			Start of day	End of day		
0.02	N/A	NTU std =	0.02	N/A	0.41	NTU std =	0.02
10.15	N/A	NTU std =	10.0	N/A	10.31	NTU std =	10.0
993.1	N/A	NTU std =	1,000	N/A	992.8	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1419	µS std =	1,413
Cell Const: 0.475	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.475	Cell Const Range:	0.45 - 0.50
4.13	N/A	pH std =	4	N/A	4.20	pH std =	4
6.98	N/A	pH std =	7	N/A	7.05	pH std =	7
Slope: 1.10	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 1.18	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 16.02	@ Temp N/A			@ Temp N/A	@ Temp 12.2°C		
256	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	259	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 30°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 7

Date: 2/21/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-106-SD

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 463.36

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/21/2018 ~~1119~~ 1119

Casing Diameter (inches): 2

Initial Water Level (ft): 15.22

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 14.98 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 448.14

Total Volume Purged (mL): 12,750 mL

Ground Water Elev Previous Event (ft, msl): 448.38

Purged Dry?: Yes No ✓

1/HT

1/HT

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 21.59

Well Total Depth Previous Event (ft): Top of pump = 196.45 May 2017

Date/Time Completed: 2/21/2018 1156

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PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 55 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 203 ft

Average Purge Rate: 345 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 9,000 mL prior to first reading									
1144	9,000	360	21.5	7.02	1560	1.28	4.60	-137	WL: 21.21
1148	10,080	270	21.2	7.02	1557	1.07	4.46	-140	WL: 21.35
1152	11,450	342	21.3	7.02	1559	0.46	6.05	-145	WL: 21.45
1156	12,750	325	21.2	7.02	1569	2.06	7.29	-148	WL: 21.59
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-106-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 21.59

Well Collection Sequence #: 5 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/21/2018 1150	345	21.2	7.02	1569	2.06	7.28	-148	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/21/2018 0745

End of day: (Date/time) 2/21/2018 1540

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.41	NTU std =	0.02
10.15	N/A	NTU std =	10.0	N/A	10.31	NTU std =	10.0
993.1	N/A	NTU std =	1,000	N/A	992.8	NTU std =	1,000
1487	N/A	µS std =	1,413	N/A	1419	µS std =	1,413
Cell Const: 0.475	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.475	Cell Const Range:	0.45 - 0.50
4.13	N/A	pH std =	4	N/A	4.20	pH std =	4
6.98	N/A	pH std =	7	N/A	7.05	pH std =	7
Slope: 1.10 @ Temp 16.0 °C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A @ Temp N/A	Slope: 1.18 @ Temp 12.2 °C	Dissolved O_2 Slope Range: 0.6 to 1.25	
256	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	259	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 30°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/21/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-109-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 460.19

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/21/2018 0820

Casing Diameter (inches): 2

Initial Water Level (ft): 22.32

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 21.04 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 437.87

Total Volume Purged (mL): 9,670 mL

Ground Water Elev Previous Event (ft, msl): 439.15

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 41.20

Well Total Depth Previous Event (ft): Top of pump = 130.98 May 2017

Date/Time Completed: 2/21/2018 0848

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 70 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 138 ft

Average Purge Rate: 345 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 5,500 mL prior to first reading									
0836	5,500	344	18.7	7.13	809	2.44	0.99	76	WL: 33.40
0840	6,890	347	18.5	7.13	804	1.51	1.06	86	WL: 35.91
0844	8,270	345	18.5	7.12	802	0.87	1.10	99	WL: 38.60
0848	9,670	350	18.8	7.12	798	0.97	1.13	100	WL: 41.20
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION: Sample Point ID: PZ-109-SS

Sampling Method: Bladder Pump Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 41.20 Well Collection Sequence #: 3 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/21/2018 0850	345	18.8	7.12	798	0.97	1.13	100	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/21/2018 0745

End of day: (Date/time) 2/21/2018 1540

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.41	NTU std =	0.02
10.15	N/A	NTU std =	10.0	N/A	10.31	NTU std =	10.0
993.1	N/A	NTU std =	1,000	N/A	992.8	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1419	µS std =	1,413
Cell Const: 0.475	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.475	Cell Const Range:	0.45 - 0.50
4.13	N/A	pH std =	4	N/A	4.20	pH std =	4
6.98	N/A	pH std =	7	N/A	7.05	pH std =	7
Slope: 1.10 @ Temp 16.0°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A @ Temp N/A	Slope: 1.18 @ Temp 12.2°C	Dissolved O_2 Slope Range: 0.6 to 1.25	
256	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	259	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 30°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) N Full Suite Collected? (Y) N # Bottles Collected: 7

Date: 2/21/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-111-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 464.63

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/20/2018 1021

Casing Diameter (inches): 2

Initial Water Level (ft): 36.49

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 33.71 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 428.44 428.14

Total Volume Purged (mL): 6,310 mL

Ground Water Elev Previous Event (ft, msl): 430.92

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 36.88

Well Total Depth Previous Event (ft): N/A May 2017

Date/Time Completed: 2/20/2018 1044

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: ~~65~~ 55 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Measured TD = 115.30 ft

Average Purge Rate: 274 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 2,000 mL prior to first reading									
1028	2,000	286	16.3	6.98	2030	3.14	2.08	-96	WL: 36.83
1032	2,800	200	16.2	6.93	1998	7.23	1.53	-123	WL: 36.80
1036	3,800	250	16.1	6.97	1780	14.22	2.59	-152	WL: 36.81
1040	5,100	325	16.1	6.98	1710	3.74	1.11	-168	WL: 36.95
1044	6,310	302	16.0	6.97	1670	2.66	0.92	-173	WL: 36.88
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-111-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 36.88

Well Collection Sequence #: 1 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/20/2018 1046	274	16.0	6.97	1,670	2.66	0.92	-173	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/20/2018 1000

End of day: (Date/time) 2/20/2018 1430

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.32	NTU std =	0.02
9.95	N/A	NTU std =	10.0	N/A	11.12	NTU std =	10.0
995.4	N/A	NTU std =	1,000	N/A	>1,100	NTU std =	1,000
1428	N/A	µS std =	1,413	N/A	1421	µS std =	1,413
Cell Const: 0.480	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.480	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4	N/A	4.15	pH std =	4
6.96	N/A	pH std =	7	N/A	7.01	pH std =	7
Slope: 1.08	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 1.11	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 18.8°C	@ Temp N/A			@ Temp N/A	@ Temp 20.3°C		
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	254	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Lt. Rain, Windy, 65°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) N Full Suite Collected? (Y) N # Bottles Collected: 7

Date: 2/20/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-111-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 466.46

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/20/2018 1100

Casing Diameter (inches): 2

Initial Water Level (ft): 37.80

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 32.29 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 428.66

Total Volume Purged (mL): 11,950 mL

Ground Water Elev Previous Event (ft, msl): 434.17

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 61.09

Well Total Depth Previous Event (ft): Top of pump = 197.08 May 2017

Date/Time Completed: 2/20/2018 1134

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 70 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 212 ft

Average Purge Rate: 351 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 8,500 mL prior to first reading									
1122	8,000	364	16.9	7.19	1666 840	2.90	1.80	2	WL: 53.71
1126	9,300	325	16.8	7.19	840	1.30	3.95	9	WL: 56.01
1130	10,650	337	16.8	7.20	843	0.31	2.17	12	WL: 58.51
1134	11,950	325	16.7	7.22	842	0.29	3.50	16	WL: 61.09
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-111-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 61.09

Well Collection Sequence #: 2 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/20/2018 1136	351	16.7	7.22	842	0.89	3.50	16	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/20/2018 1000

End of day: (Date/time) 2/20/2018 1430

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.32	NTU std =	0.02
9.95	N/A	NTU std =	10.0	N/A	11.12	NTU std =	10.0
995.4	N/A	NTU std =	1,000	N/A	21,100	NTU std =	1,000
1428	N/A	µS std =	1,413	N/A	1421	µS std =	1,413
Cell Const: 0.480	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.480	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4	N/A	4.15	pH std =	4
6.96	N/A	pH std =	7	N/A	7.01	pH std =	7
Slope: 1.08	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 1.11	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 18.8°C	@ Temp N/A			@ Temp N/A	@ Temp 20.3°C		
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	254	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Rain, Windy, 60°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/20/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-114-AS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 451.26

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/22/2018 1345

Casing Diameter (inches): 2

Initial Water Level (ft): 22.52

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 20.40 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 428.44

Total Volume Purged (mL): 4,850 mL

Ground Water Elev Previous Event (ft, msl): 430.86

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 22.48

Well Total Depth Previous Event (ft): Top of pump = 26.04 May 2017

Date/Time Completed: 2/22/2018 1359

PURGE DATA: Discharge: 3.0 sec Refill: 5.0 sec Pressure: 20 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 32 ft

Average Purge Rate: 346 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 55 1,000 mL prior to first reading									
1347	1,000	500	16.4	6.64	2400	0.76	1.37	-92	WL: 22.48
1351	2250	312	16.3	6.64	2370	2.28	0.55	-102	WL: 22.48
1355	3750	375	15.8	6.64	2380	1.05	0.49	-108	WL: 22.48
1359	4850	275	15.8	6.64	2390	1.06	0.44	-112	WL: 22.48
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-114-AS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 22.48

Well Collection Sequence #: 12 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/22/2018 1401	346	15.8	6.64	2390	1.06	0.44	-112	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/22/2018 0855

End of day: (Date/time) 2/22/2018 1430

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.19	NTU std =	0.02
10.05	N/A	NTU std =	10.0	N/A	10.26	NTU std =	10.0
1000	N/A	NTU std =	1,000	N/A	992.9	NTU std =	1,000
1436	N/A	µS std =	1,413	N/A	1437	µS std =	1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4	N/A	4.17	pH std =	4
6.98	N/A	pH std =	7	N/A	7.02	pH std =	7
Slope: 1.09	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 1.21	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 16.3°C	@ Temp N/A			@ Temp N/A	@ Temp 15.7°C		
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	245	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 40°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/22/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-115-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 452.27

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/22/2018 1300

Casing Diameter (inches): 2

Initial Water Level (ft): 15.91

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 15.44 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 436.36

Total Volume Purged (mL): 6,650 mL

Ground Water Elev Previous Event (ft, msl): 436.83

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 20.39

Well Total Depth Previous Event (ft): Top of pump = 81.03 May 2017

Date/Time Completed: 2/22/2018 1328

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 45 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD = 87 ft

Average Purge Rate: 237 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,500 mL prior to first reading									
1316	3,500	219	15.0	6.68	2830	1.17	8.91	-30	WL: 18.90
1320	4,400	225	15.1	6.68	2750	0.96	3.20	-28	WL: 19.32
1324	5,550	287	15.2	6.68	2730	1.06	0.82	-25	WL: 19.90
1328	6,650	275	15.2	6.68	2740	0.57	0.73	-26	WL: 20.39
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-115-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 20.39

Well Collection Sequence #: 11 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/22/2018 1330	237	15.2	6.68	2740	0.57	0.73	-26	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/22/2018 0855

End of day: (Date/time) 2/22/2018 1430

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.19	NTU std =	0.02
10.05	N/A	NTU std =	10.0	N/A	10.26	NTU std =	10.0
1000	N/A	NTU std =	1,000	N/A	992.9	NTU std =	1,000
1436	N/A	µS std =	1,413	N/A	1487	µS std =	1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4	N/A	4.17	pH std =	4
6.98	N/A	pH std =	7	N/A	7.02	pH std =	7
Slope: 1.09	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 1.21	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 16.3°C	@ Temp N/A			@ Temp N/A	@ Temp 15.7°C		
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	245	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 40°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 2/22/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-201A-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 480.20

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/22/2018 1100

Casing Diameter (inches): 2

Initial Water Level (ft): 14.25

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 12.82 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 465.95

Total Volume Purged (mL): 8,050 mL

Ground Water Elev Previous Event (ft, msl): 467.38

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): ~~27~~ 35.43

Well Total Depth Previous Event (ft): Top of pump = 86.28 May 2017

Date/Time Completed: 2/22/2018 1128

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 92 ft

Average Purge Rate: 402 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 4,000 mL prior to first reading									
1116	4,000	500	16.1	7.18	809	2.87	2.93	188	WL: 23.99
1120	5,050	262	16.0	7.18	798	0.53	3.02	189	WL: 27.42
1124	6,400	337	16.0	7.19	782	0.49	3.70	206	WL: 31.19
1128	8,050	412	16.0	7.22	782	1.60	4.67	211	WL: 35.43
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-201A-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 35.43

Well Collection Sequence #: 10 of 15

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/22/2018 1130	402	16.0	7.22	788	1.60	4.67	211	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/22/2018 0855

End of day: (Date/time) 2/22/2018 1430

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.19	NTU std =	0.02
10.05	N/A	NTU std =	10.0	N/A	10.26	NTU std =	10.0
1000	N/A	NTU std =	1,000	N/A	992.9	NTU std =	1,000
1436	N/A	µS std =	1,413	N/A	1437	µS std =	1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4	N/A	4.17	pH std =	4
6.98	N/A	pH std =	7	N/A	7.02	pH std =	7
Slope: 1.09	Slope: N/A	Dissolved O_2 Slope Range:		Slope: N/A	Slope: 1.21	Dissolved O_2 Slope Range:	
@ Temp 16.3°C	@ Temp N/A	0.6 to 1.25		@ Temp N/A	@ Temp 15.7°C	0.6 to 1.25	
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	245	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Drizzle, 40°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 4

Date: 2/22/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-205-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 465.18

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/21/2018 0943

Casing Diameter (inches): 2

Initial Water Level (ft): 35.59

One Borehole Volume (gal): Not Applicable

HTT 111

Initial Water Level Previous Event (ft): 31.21 Nov 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 429.59

Total Volume Purged (mL): 8,400 mL

Ground Water Elev Previous Event (ft, msl): 433.97

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 51.75

Well Total Depth Previous Event (ft): Top of pump = 93.00 Aug 2017

Date/Time Completed: 2/21/2018 1003

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Measured TD = 103.61 ft

Average Purge Rate: 420 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,500 mL prior to first reading									
0951	3,500	437	17.7	7.11	906	2.03	1.85	103	WL: 41.10
1955	5,000	375	18.3	7.10	910	1.42	1.82	110	WL: 44.55
0959	6,950	487	18.2	7.10	909	1.91	2.20	114	WL: 48.09
1003	8,400	362	18.0	7.12	896	1.30	2.63	127	WL: 51.75
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:
									WL:

FEEZOR ENGINEERING, INC

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-205-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 51.75

Well Collection Sequence #: 4 of 15

Parameters: Annual: Semi-Annual: Quarterly: ✓ Monthly: Other:

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/21/2018 1000	420	18.0	7.12	896	1.30	2.63	127	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/21/2018 0745

End of day: (Date/time) 2/21/2018 1540

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day			Sampling Event Start of day	Sampling Event End of day		
0.02	N/A	NTU std =	0.02	N/A	0.41	NTU std =	0.02
10.15	N/A	NTU std =	10.0	N/A	10.31	NTU std =	10.0
993.1	N/A	NTU std =	1,000	N/A	992.8	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1419	µS std =	1,413
Cell Const: 0.475	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.475	Cell Const Range:	0.45 - 0.50
4.13	N/A	pH std =	4	N/A	4.20	pH std =	4
6.98	N/A	pH std =	7	N/A	7.05	pH std =	7
Slope: 1.10 @ Temp 16.0°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A @ Temp N/A	Slope: 1.18 @ Temp 12.2°C	Dissolved O_2 Slope Range: 0.6 to 1.25	
256	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	259	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 30°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 7

Date: 2/21/2018 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.