



An **AEP** Company

BOUNDLESS ENERGY™

Annual Groundwater Monitoring Report

Indiana Michigan Power Company
Rockport Plant
Bottom Ash Pond CCR Management Units
Rockport, Indiana

January 31, 2020

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| | <u>Page</u> |
|---|-------------|
| I. Overview | 1 |
| II. Groundwater Monitoring Well Locations and Identification Numbers | 2 |
| III. Monitoring Wells Installed or Decommissioned | 3 |
| IV. Groundwater Quality Data and Static Water Elevation Data, With Flow Rates and Flow Directions | 4 |
| V. Groundwater Quality Data Statistical Analysis | 4 |
| VI. Alternate Source Demonstrations | 4 |
| VII. Discussion About Transition Between Monitoring Requirements or Alternate Monitoring Frequency | 4 |
| VIII. Other Information Required | 5 |
| IX. Description of Any Problems Encountered in 2018 and Actions Taken | 5 |
| X. A Projection of Key Activities for the Upcoming Year | 5 |

Appendix 1: GW Quality Data, GW Flow Directions, GW Flow Rates

Appendix 2: Statistical Analysis Summary May 2019 Samples

Appendix 3: Statistical Analysis Summary June and September 2019 Samples

I. Overview

This *Annual Groundwater Monitoring and Corrective Action Report* (Report) has been prepared to report the status of activities for the year 2019 at the bottom ash pond (BAP) CCR unit at Indiana Michigan Power Company's (I&M) Rockport Plant. The Indiana Michigan Power Company is wholly owned subsidiary of American Electric Power Company (AEP). The USEPA's CCR rules require that the Annual Groundwater Monitoring and Corrective Action Report covering 2019 groundwater monitoring activities be posted to the operating record no later than January 31, 2020.

In general, the following activities were completed during 2019:

- As required by the CCR assessment monitoring rules in 40 CFR 257.95(b) and (d), three rounds of sampling to include the Appendix III and IV parameters as required were performed in May, June, and September 2019. The results were compared to calculated statistical limits for the Appendix III parameters and the calculated groundwater protection standards (GWPS) for the Appendix IV parameters.
- Analytical results of the May, June, and September rounds of sampling are listed in Appendix 1. Also shown are the groundwater flow rates and flow directions.
- Groundwater data underwent various validation tests, including tests for completeness, valid values, transcription errors, and consistent units;
- Statistical analysis reports of the May 2019 samples and the June/September 2019 samples are attached as Appendix 2 and 3 respectively. Whereas there were statistically significant increases in Appendix III indicator parameters, there were no exceedances of Appendix IV groundwater protection standards.
- Because an alternate source for the Appendix III SSIs could not be identified, the bottom ash pond remained in Assessment Monitoring status.

The major components of this annual report, to the extent applicable at this time, are presented in sections that follow:

- A map/aerial photograph showing the BAP CCR management units, all CCR groundwater monitoring wells, and monitoring well identification numbers.
- Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a statement as to why that happened.
- All of the monitoring data collected, including the rate and direction of groundwater flow, plus a summary showing the number of samples collected per monitoring well, the dates the samples were collected, and whether the sample was collected as part of detection monitoring or assessment monitoring programs.
- Results of the required statistical analysis of groundwater monitoring results.
- Discussion of the unsuccessful alternate source demonstration.

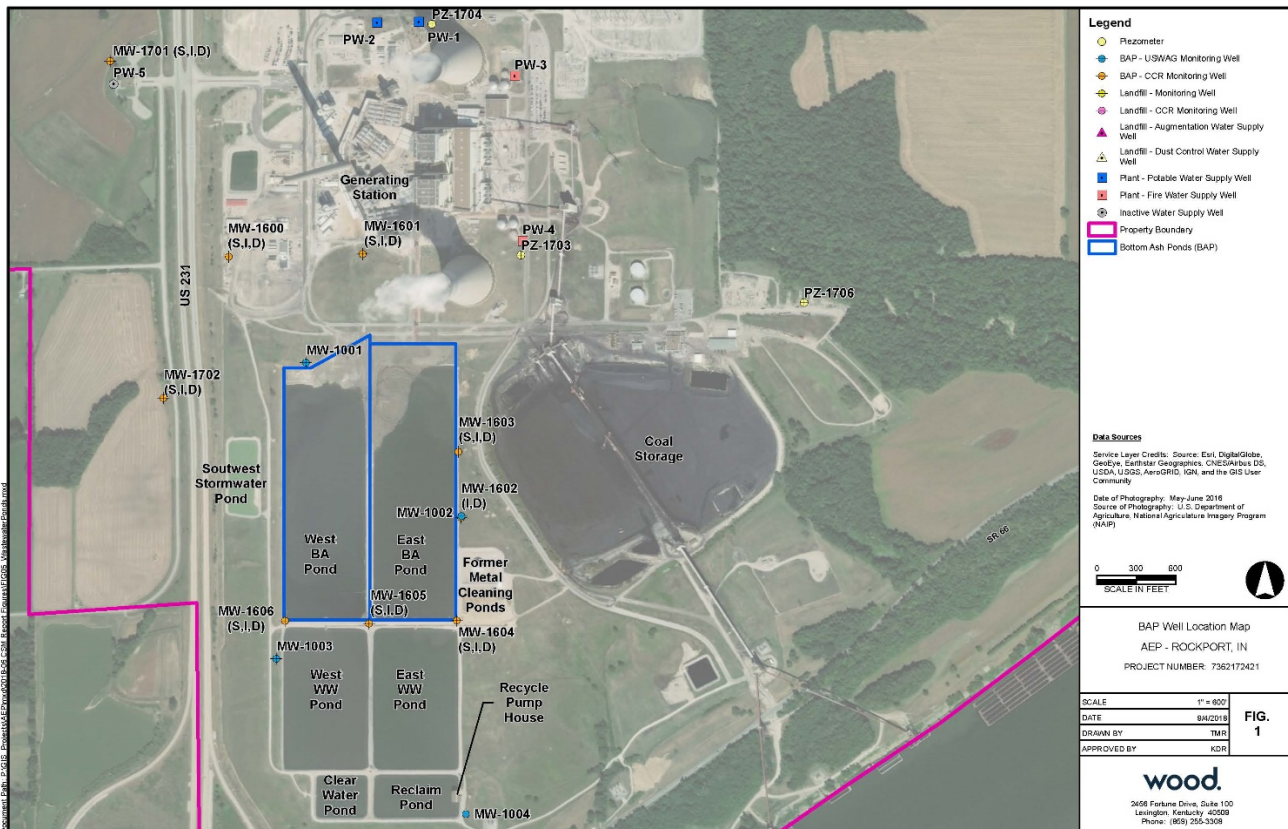
- A summary of any transition between monitoring programs or an alternate monitoring frequency, for example the date and circumstances for transitioning from detection monitoring to assessment monitoring, in addition to identifying the constituents detected at a statistically significant increase over background concentrations.
- Other information required to be included in the annual report such as alternate source demonstration or assessment of corrective measures, if applicable

In addition, this report summarizes key actions completed, and where applicable, describes any problems encountered and actions taken to resolve those problems. The report includes a projection of key activities for the upcoming year.

II. Groundwater Monitoring Well Locations and Identification Numbers

Figure 1 below depicts the PE-certified BAP groundwater monitoring network, the monitoring well locations, and their corresponding identification numbers. Rather than separate groundwater monitoring systems for the East and West bottom ash ponds, the groundwater network monitors both of the bottom ash ponds as a single unit as allowed by 40 CFR 257.91(d). The CCR monitoring wells are listed as follows:

- Twelve Upgradient Wells: MW 1600 shallow, intermediate, and deep (S, I, D); MW 1601 S, I, D; MW 1701 S,I,D; and MW 1702 S,I,D.
- Fifteen Downgradient Wells: MW 1002, MW 1602 I,D ; MW 1603 S,I,D ; MW 1604 S,I,D ; MW 1605 S,I,D ; and MW 1606 S,I,D.



III. Monitoring Wells Installed or Decommissioned

There were no new groundwater monitoring wells installed or decommissioned during 2019.

IV. Groundwater Quality Data and Static Water Elevation Data, With Flow Rates and Flow Directions

Appendix 1 contains tables showing the groundwater quality data collected during 2019. Table 1 shows the results of May, June, and September 2019 assessment monitoring samples as required by 40 CFR 257.95 (b) and (d). Table 1 also identifies the background concentrations as required by 40 CFR 257.95(d)(3).

Static water elevation data from each monitoring event also are shown in Appendix 1, along with the groundwater flow rates (Table 2) and flow directions developed after each sampling event.

V. Groundwater Quality Data Statistical Analysis

Appendix 2 contains the statistical analysis report of the first assessment monitoring samples taken in May 2019. Statistically significant increases (SSIs) in the Appendix III parameters of boron, calcium, chloride, fluoride, pH, TDS, and sulfate were documented in the report. A subsequent evaluation of Appendix IV parameter concentrations concluded that there were no exceedances of Appendix IV groundwater protection standards (GWPS).

Appendix 3 contains the statistical analysis report of the assessment monitoring samples taken in June and September of 2019. Statistically significant increases (SSIs) in the Appendix III parameters of boron, calcium, chloride, fluoride, pH, TDS, and sulfate were documented in the report. A subsequent evaluation of Appendix IV parameter concentrations concluded that there were no exceedances of Appendix IV groundwater protection standards (GWPS).

Since there were exceedances of Appendix III parameters during each of the three sampling rounds in 2019 but no exceedances of any Appendix IV groundwater protection standards, the BAP will remain in Assessment Monitoring status for the year 2020.

VI. Alternate Source Demonstrations

An alternate source demonstration (ASD) investigation relative to past Appendix III SSIs was completed in April 2018. That demonstration concluded that the groundwater quality and Appendix III indicator parameter SSIs identified in the statistical evaluations were potentially influenced by a release from the BAP to the groundwater. An alternate source could not be identified. Therefore, an alternate source demonstration investigation was not undertaken for the 2019 exceedances of Appendix III parameters.

VII. Discussion About Transition Between Monitoring Requirements or Alternate Monitoring Frequency

Because an alternate source for the Appendix III SSIs could not be identified, an assessment monitoring program was established at Rockport's BAP complex on April 15, 2018. Assessment monitoring continued through the 2019 calendar year.

The BAP will remain in assessment monitoring unless all Appendix III and IV parameters are below background values for two consecutive monitoring events (return to detection monitoring) as prescribed by 40 CFR 257.95(e). If an Appendix IV parameter exceeds its respective GWPS due to a release from the BAP, an assessment of corrective measures will be undertaken as required by 40 CFR 257.96.

Regarding defining an alternate monitoring frequency, the groundwater velocity and monitoring well production are high enough at this facility that no modification to the semiannual assessment monitoring frequency is needed.

VIII. Other Information Required

The BAP has progressed from detection monitoring to its current status in assessment monitoring. All required information has been included in this annual groundwater monitoring report.

IX. Description of Any Problems Encountered in 2018 and Actions Taken

No significant problems were encountered. The low flow sampling effort went smoothly and the schedule was met to support the 2019 annual groundwater report preparation covering the year 2019 groundwater monitoring activities.

X. A Projection of Key Activities for the Upcoming Year

Key activities for 2020 include:

- Continue in assessment monitoring and sample all CCR wells at the BAP for the Appendix III and IV parameters as required by 40 CFR 257.95.
- Perform statistical analysis on the sampling results for the Appendix III and Appendix IV parameters.
- Determine applicable GWPSs for the Appendix IV parameters, and compare the results of Appendix IV concentrations in downgradient wells to the GWPSs.
- If no GWPSs are exceeded, the BAP will remain in assessment monitoring.
- If a GWPS is exceeded in a downgradient well the following activities will be undertaken:
 - Characterize the nature and extent of a release by installing additional GW wells as necessary, estimate the quantity of material released and the concentrations

of Appendix IV parameters that are in the material, and sample all wells to characterize the nature and extent of the release.

- If contaminants have migrated off-site, notify all persons who own land that directly overlies any part of the plume of contamination.
 - Perform an alternate source demonstration (ASD) investigating whether the exceedance was caused by a source other than the BAP or was a result of an error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.
 - If a successful ASD cannot be made, initiate an assessment of corrective measures and follow all of those requirements.
- Respond to any new data received in light of what the CCR rule requires.
 - Prepare the annual groundwater report covering 2020 groundwater monitoring activities to be filed not later than January 31, 2021.

APPENDIX 1

ROCKPORT PLANT CCR BOTTOM ASH PONDS

ANNUAL GROUNDWATER MONITORING REPORT COVERING 2019 ACTIVITIES

GW QUALITY DATA, GW FLOW DIRECTIONS, GW FLOW RATES

Table 1 - Groundwater Data Summary: MW-1002

**Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|-------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 1.77 | 33.2 | 58.9 | 1.05 | 7.0 | 390 | 149 |
| 7/18/2016 | Background | 1.70 | 32.3 | 57.8 | 1.03 | 7.1 | 385 | 154 |
| 9/20/2016 | Background | 1.57 | 40.1 | 54.0 | 0.98 | 6.8 | 399 | 164 |
| 11/15/2016 | Background | 1.67 | 49.4 | 53.0 | 0.87 | 6.5 | 405 | 178 |
| 1/9/2017 | Background | 1.57 | 55.6 | 59.0 | 0.74 | 6.3 | 440 | 190 |
| 3/7/2017 | Background | 1.32 | 76.3 | 81.1 | 0.73 | 6.5 | 503 | 228 |
| 5/8/2017 | Background | 1.04 | 78.1 | 75.5 | 0.73 | 6.7 | 498 | 215 |
| 7/17/2017 | Background | 1.28 | 50.0 | 59.9 | 0.73 | 6.7 | 430 | 184 |
| 10/3/2017 | Detection | 1.63 | 36.4 | 54.4 | 0.80 | 7.1 | 403 | 166 |
| 12/12/2017 | Detection | -- | -- | 52.5 | 0.97 | 7.3 | -- | 177 |
| 1/11/2018 | Detection | 1.71 | -- | 53.2 | 0.91 | 7.0 | -- | 183 |
| 6/5/2018 | Assessment | 1.66 | 40.8 | 51.4 | 1.02 | 8.1 | 425 | 165 |
| 8/15/2018 | Assessment | 1.88 | 41.3 | 57.4 | 1.02 | 7.2 | 453 | 182 |
| 5/24/2019 | Assessment | 1.61 | 32.9 | 55.9 | 1.13 | 7.4 | 435 | 169 |
| 6/27/2019 | Assessment | 1.82 | 36.0 | 57.1 | 1.10 | 7.1 | 425 | 173 |
| 9/12/2019 | Assessment | 1.78 | 33.5 | 54.7 | 1.03 | 6.7 | 418 | 178 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1002

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|---------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.05 | 0.32 | 12.3 | <0.005 U | 0.02 | 0.3 | 0.830 | 0.1116 | 1.05 | 0.034 | 0.002 | <0.002 U | 1.92 | 0.08 J | 0.02 J |
| 7/18/2016 | Background | 0.05 | 0.29 | 14.2 | <0.005 U | 0.03 | 0.7 | 0.931 | 0.741 | 1.03 | 0.026 | 0.016 | <0.002 U | 2.54 | 0.1 J | 0.03 J |
| 9/20/2016 | Background | 0.04 J | 0.24 | 18.5 | <0.005 U | 0.03 | 0.1 | 0.699 | 1.377 | 0.98 | 0.01 J | 0.004 | <0.002 U | 3.38 | 0.1 J | 0.02 J |
| 11/15/2016 | Background | 0.06 | 0.24 | 23.5 | 0.006 J | 0.15 | 0.075 | 0.664 | 0.686 | 0.87 | 0.031 | 0.010 | <0.002 U | 2.47 | 0.08 J | 0.04 J |
| 1/9/2017 | Background | 0.05 J | 0.25 | 26.9 | <0.005 U | 0.04 | 0.078 | 0.692 | 1.052 | 0.74 | 0.022 | 0.006 | <0.002 U | 3.16 | 0.06 J | 0.03 J |
| 3/7/2017 | Background | 0.05 | 0.20 | 35.6 | <0.005 U | 0.07 | 0.331 | 0.568 | 0.483 | 0.73 | 0.163 | 0.003 | <0.002 U | 2.69 | 0.1 J | 0.04 J |
| 5/8/2017 | Background | 0.05 | 0.24 | 26.8 | <0.004 U | 0.05 | 0.177 | 0.526 | 0.2337 | 0.73 | 0.037 | 0.009 | <0.002 U | 2.69 | 0.06 J | 0.02 J |
| 7/17/2017 | Background | 0.04 J | 0.21 | 21.4 | <0.004 U | 0.03 | 0.107 | 0.665 | 3.029 | 0.73 | 0.02 J | 0.009 | <0.002 U | 3.05 | 0.07 J | 0.04 J |
| 6/5/2018 | Assessment | 0.07 | 0.44 | 12.7 | 0.004 | 0.03 | 0.04 J | 0.768 | 0.569 | 1.02 | 0.031 | 0.011 | <0.002 U | 6.19 | 0.06 | 0.03 J |
| 8/15/2018 | Assessment | 0.05 J | 0.28 | 13.8 | <0.004 U | 0.03 | 0.281 | 0.820 | 0.766 | 1.02 | 0.02 J | <0.0002 U | -- | 7.86 | 0.07 J | 0.03 J |
| 5/24/2019 | Assessment | 0.05 J | 0.23 | 13.3 | <0.02 U | 0.03 J | 0.09 J | 0.754 | 0.1886 | 1.13 | <0.02 U | <0.009 U | <0.002 U | 8.67 | 0.05 J | <0.1 U |
| 6/27/2019 | Assessment | 0.05 J | 0.24 | 14.8 | <0.02 U | 0.03 J | 0.07 J | 0.805 | 0.682 | 1.10 | 0.03 J | <0.009 U | <0.002 U | 10.4 | 0.08 J | <0.1 U |
| 9/12/2019 | Assessment | 0.05 J | 0.22 | 15.8 | <0.02 U | 0.02 J | 0.469 | 0.635 | 0.384 | 1.03 | <0.05 U | 0.00438 | <0.002 U | 10.2 | 0.06 J | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1600D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|----------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 0.016 | 83.5 | 31.5 | 0.20 | 7.6 | 444 | 43.9 |
| 7/19/2016 | Background | 0.015 | 74.9 | 32.2 | 0.22 | 7.2 | 413 | 44.9 |
| 9/19/2016 | Background | <0.002 U | 85.6 | 30.9 | 0.20 | 7.1 | 385 | 38.7 |
| 11/16/2016 | Background | 0.024 | 83.1 | 30.9 | 0.17 | 7.2 | 415 | 35.9 |
| 1/10/2017 | Background | 0.014 | 87.8 | 31.0 | 0.22 | 7.1 | 384 | 42.5 |
| 3/7/2017 | Background | 0.036 | 84.9 | 31.6 | 0.19 | 7.0 | 374 | 39.2 |
| 5/8/2017 | Background | 0.037 | 89.1 | 32.6 | 0.21 | 6.5 | 402 | 38.4 |
| 7/17/2017 | Background | 0.038 | 73.6 | 31.6 | 0.17 | 6.5 | 389 | 40.1 |
| 10/3/2017 | Detection | 0.040 | 78.3 | 31.5 | 0.20 | 7.3 | 398 | 40.8 |
| 12/12/2017 | Detection | -- | -- | 31.5 | 0.20 | 7.1 | -- | 42.5 |
| 6/4/2018 | Assessment | 0.079 | 83.5 | 32.8 | 0.23 | 7.3 | 397 | 39.2 |
| 8/14/2018 | Assessment | 0.085 | 86.6 | 31.5 | 0.24 | 7.1 | 400 | 41.0 |
| 5/20/2019 | Assessment | <0.02 U | 76.5 | 31.4 | 0.21 | 7.2 | 394 | 43.0 |
| 6/25/2019 | Assessment | 0.03 J | 84.2 | 31.0 | 0.22 | 7.1 | 407 | 37.7 |
| 9/10/2019 | Assessment | <0.02 U | 90.1 | 31.1 | 0.23 | 7.2 | 404 | 41.3 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1600D

**Rockport - BAP
Appendix IV Constituents**

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|-------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.01 J | 15.4 | 940 | 0.006 J | <0.004 U | 0.2 | 0.109 | 2.148 | 0.20 | 0.095 | <0.0002 U | <0.002 U | 1.94 | <0.03 U | 0.01 J |
| 7/19/2016 | Background | 0.02 J | 17.2 | 946 | 0.005 J | <0.004 U | 0.2 | 0.094 | 1.615 | 0.22 | 0.021 | 0.020 | <0.002 U | 2.19 | 0.05 J | 0.054 |
| 9/19/2016 | Background | 0.01 J | 15.1 | 910 | <0.005 U | <0.004 U | 0.9 | 0.071 | 1.636 | 0.20 | 0.020 | 0.011 | <0.002 U | 1.75 | <0.03 U | 0.01 J |
| 11/16/2016 | Background | <0.01 U | 15.8 | 997 | <0.005 U | <0.004 U | 0.128 | 0.085 | 1.402 | 0.17 | 0.064 | 0.008 | <0.002 U | 1.79 | 0.04 J | <0.01 U |
| 1/10/2017 | Background | <0.01 U | 15.2 | 877 | <0.005 U | <0.004 U | 0.115 | 0.1 | 2.265 | 0.22 | 0.053 | 0.009 | <0.002 U | 1.65 | <0.03 U | <0.01 U |
| 3/7/2017 | Background | <0.01 U | 16.2 | 986 | <0.005 U | <0.004 U | 0.427 | 0.081 | 1.322 | 0.19 | 0.038 | 0.008 | <0.002 U | 1.78 | 0.05 J | <0.01 U |
| 5/8/2017 | Background | 0.01 J | 15.9 | 914 | 0.004 J | <0.005 U | 0.170 | 0.096 | 1.104 | 0.21 | 0.073 | 0.006 | <0.002 U | 1.64 | 0.05 J | <0.01 U |
| 7/17/2017 | Background | 0.03 J | 15.0 | 817 | 0.004 J | <0.005 U | 0.180 | 0.112 | 2.223 | 0.17 | 0.076 | 0.009 | <0.002 U | 1.56 | 0.04 J | <0.01 U |
| 6/4/2018 | Assessment | 0.02 J | 13.8 | 766 | 0.01 J | 0.02 J | 0.112 | 0.297 | 0.833 | 0.23 | 0.102 | 0.009 | <0.002 U | 1.62 | <0.03 U | 0.02 J |
| 8/14/2018 | Assessment | <0.01 U | 15.1 | 840 | <0.004 U | <0.005 U | 0.073 | 0.079 | 2.858 | 0.24 | 0.023 | 0.004 | -- | 1.62 | <0.03 U | <0.01 U |
| 5/20/2019 | Assessment | <0.02 U | 20.3 | 873 | <0.02 U | 0.08 | 0.274 | 0.176 | 1.948 | 0.21 | 0.238 | <0.009 U | <0.002 U | 2 J | <0.03 U | <0.1 U |
| 6/25/2019 | Assessment | <0.02 U | 16.6 | 867 | <0.02 U | <0.01 U | 0.1 J | 0.146 | 1.121 | 0.22 | 0.135 | 0.01 J | <0.002 U | 2 J | 0.05 J | <0.1 U |
| 9/10/2019 | Assessment | <0.02 U | 16.1 | 884 | <0.02 U | <0.01 U | 0.2 J | 0.132 | 1.621 | 0.23 | 0.1 J | 0.00627 | <0.002 U | 2 J | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

Table 1 - Groundwater Data Summary: MW-16001

**Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|---------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 0.019 | 79.2 | 33.5 | 0.23 | -- | 442 | 52.2 |
| 7/19/2016 | Background | 0.019 | 76.0 | 26.7 | 0.23 | 7.3 | 423 | 55.3 |
| 9/19/2016 | Background | 0.004 J | 77.6 | 24.9 | 0.21 | 7.2 | 404 | 48.4 |
| 11/16/2016 | Background | 0.031 | 76.0 | 24.5 | 0.17 | 7.2 | 408 | 44.5 |
| 1/10/2017 | Background | 0.016 | 76.5 | 23.7 | 0.19 | 7.1 | 394 | 45.8 |
| 3/7/2017 | Background | 0.049 | 75.5 | 26.4 | 0.20 | 7.2 | 392 | 49.2 |
| 5/8/2017 | Background | 0.033 | 80.2 | 25.0 | 0.22 | 6.8 | 406 | 48.5 |
| 7/17/2017 | Background | 0.046 | 71.5 | 24.4 | 0.17 | 9.3 | 398 | 48.0 |
| 10/3/2017 | Detection | 0.051 | 71.1 | 24.4 | 0.21 | 7.3 | 400 | 50.7 |
| 12/12/2017 | Detection | -- | -- | 24.7 | 0.21 | -- | -- | 52.4 |
| 6/4/2018 | Assessment | 0.046 | 72.8 | 25.4 | 0.24 | 7.5 | 396 | 50.0 |
| 8/14/2018 | Assessment | 0.057 | 78.6 | 25.6 | 0.25 | 7.1 | 426 | 50.3 |
| 5/20/2019 | Assessment | 0.03 J | 71.0 | 25.4 | 0.22 | 7.3 | 411 | 52.8 |
| 6/25/2019 | Assessment | 0.02 J | 76.0 | 25.0 | 0.23 | 7.1 | 401 | 46.7 |
| 9/10/2019 | Assessment | 0.02 J | 81.1 | 25.6 | 0.24 | 7.2 | 404 | 50.8 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-16001

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.05 J | 15.9 | 832 | <0.005 U | 0.005 J | 0.4 | 1.27 | 7.25 | 0.23 | 0.107 | 0.003 | <0.002 U | 1.68 | <0.03 U | 0.02 J |
| 7/19/2016 | Background | 0.03 J | 17.9 | 805 | <0.005 U | <0.004 U | 0.3 | 1.38 | 1.902 | 0.23 | 0.099 | 0.010 | <0.002 U | 1.83 | 0.03 J | <0.01 U |
| 9/19/2016 | Background | 0.03 J | 16.0 | 778 | <0.005 U | 0.01 J | 0.2 | 1.13 | 1.55 | 0.21 | 0.037 | 0.010 | <0.002 U | 1.89 | 0.06 J | 0.065 |
| 11/16/2016 | Background | 0.03 J | 16.3 | 801 | <0.005 U | 0.01 J | 0.081 | 1.14 | 2.47 | 0.17 | 0.01 J | 0.013 | <0.002 U | 1.63 | <0.03 U | 0.02 J |
| 1/10/2017 | Background | 0.02 J | 16.7 | 736 | <0.005 U | <0.004 U | 0.158 | 1.20 | 0.9137 | 0.19 | 0.006 J | 0.005 | <0.002 U | 1.64 | <0.03 U | 0.02 J |
| 3/7/2017 | Background | 0.02 J | 16.8 | 696 | <0.005 U | 0.02 J | 0.270 | 1.13 | 1.624 | 0.20 | 0.054 | 0.005 | <0.002 U | 1.67 | 0.04 J | 0.03 J |
| 5/8/2017 | Background | 0.02 J | 17.0 | 762 | <0.004 U | <0.005 U | 0.095 | 1.26 | 1.75 | 0.22 | 0.01 J | 0.011 | <0.002 U | 1.54 | <0.03 U | 0.02 J |
| 7/17/2017 | Background | 0.02 J | 16.8 | 710 | <0.004 U | <0.005 U | 0.397 | 1.27 | 2.009 | 0.17 | 0.108 | 0.010 | <0.002 U | 1.53 | <0.03 U | 0.02 J |
| 6/4/2018 | Assessment | 0.04 J | 20.6 | 820 | <0.004 U | <0.005 U | 0.061 | 1.48 | 2.59 | 0.24 | 0.02 J | 0.012 | <0.002 U | 1.98 | <0.03 U | 0.03 J |
| 8/14/2018 | Assessment | 0.02 J | 17.5 | 726 | <0.004 U | <0.005 U | 0.087 | 1.29 | 1.797 | 0.25 | 0.025 | 0.007 | -- | 1.64 | <0.03 U | 0.03 J |
| 5/20/2019 | Assessment | <0.02 U | 17.7 | 737 | <0.02 U | <0.01 U | 0.1 J | 1.24 | 1.988 | 0.22 | <0.02 U | <0.009 U | <0.002 U | 2 J | <0.03 U | <0.1 U |
| 6/25/2019 | Assessment | <0.02 U | 17.2 | 740 | <0.02 U | <0.01 U | <0.04 U | 1.23 | 2.301 | 0.23 | <0.02 U | 0.009 J | <0.002 U | 2 J | <0.03 U | <0.1 U |
| 9/10/2019 | Assessment | <0.02 U | 16.9 | 722 | <0.02 U | <0.01 U | 0.1 J | 1.29 | 1.22 | 0.24 | <0.05 U | 0.0072 | <0.002 U | 2 J | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1600S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 0.045 | 69.8 | 32.0 | 0.33 | 6.6 | 491 | 75.8 |
| 7/19/2016 | Background | 0.045 | 67.0 | 29.9 | 0.34 | 6.8 | 448 | 76.0 |
| 9/19/2016 | Background | 0.026 | 63.2 | 21.3 | 0.32 | 6.4 | 408 | 60.8 |
| 11/16/2016 | Background | 0.061 | 63.5 | 27.1 | 0.28 | 6.8 | 426 | 54.4 |
| 1/10/2017 | Background | 0.034 | 68.5 | 23.7 | 0.32 | 6.5 | 433 | 53.1 |
| 3/7/2017 | Background | 0.129 | 63.2 | 25.0 | 0.37 | 6.8 | 402 | 58.5 |
| 5/8/2017 | Background | 0.039 | 69.0 | 26.0 | 0.40 | 6.6 | 427 | 54.6 |
| 7/17/2017 | Background | 0.068 | 58.0 | 18.0 | 0.36 | 9.5 | 393 | 41.0 |
| 10/3/2017 | Detection | 0.049 | 61.4 | 27.8 | 0.37 | 6.8 | 430 | 54.9 |
| 12/13/2017 | Detection | -- | -- | 36.1 | 0.36 | 6.7 | -- | 68.0 |
| 6/4/2018 | Assessment | 0.076 | 60.9 | 36.5 | 0.56 | 7.3 | 412 | 41.3 |
| 8/15/2018 | Assessment | 0.088 | 63.7 | 44.9 | 0.51 | 7.0 | 416 | 42.3 |
| 5/21/2019 | Assessment | 0.05 J | 57.4 | 27.9 | 0.44 | 6.9 | 423 | 57.4 |
| 6/25/2019 | Assessment | 0.05 J | 62.7 | 21.4 | 0.47 | 6.8 | 398 | 40.9 |
| 9/10/2019 | Assessment | 0.04 J | 64.8 | 23.9 | 0.46 | 6.9 | 383 | 45.0 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1600S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|--------|---------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.02 J | 0.67 | 36.1 | <0.005 U | 0.02 J | 0.2 | 0.243 | 0.149 | 0.33 | 0.118 | 0.003 | 0.002 J | 0.61 | 0.5 | <0.01 U |
| 7/19/2016 | Background | 0.02 J | 0.67 | 37.9 | <0.005 U | 0.02 J | 0.4 | 0.099 | 0.52826 | 0.34 | 0.048 | 0.038 | <0.002 U | 0.56 | 0.3 | 0.01 J |
| 9/19/2016 | Background | 0.02 J | 0.58 | 30.9 | <0.005 U | 0.01 J | 0.2 | 0.129 | 0.0715 | 0.32 | 0.087 | 0.019 | <0.002 U | 0.56 | 0.3 | 0.02 J |
| 11/16/2016 | Background | 0.04 J | 0.75 | 32.9 | 0.008 J | 0.03 | 0.284 | 0.690 | 0.505 | 0.28 | 0.360 | 0.024 | <0.002 U | 0.64 | 0.4 | 0.04 J |
| 1/10/2017 | Background | 0.02 J | 0.65 | 29.3 | 0.006 J | 0.01 J | 0.892 | 0.306 | 1.8182 | 0.32 | 0.151 | 0.016 | <0.002 U | 0.60 | 0.4 | 0.01 J |
| 3/7/2017 | Background | 0.03 J | 0.70 | 30.5 | 0.008 J | 0.02 J | 0.459 | 0.587 | 1.697 | 0.37 | 0.319 | 0.013 | <0.002 U | 0.66 | 0.5 | 0.01 J |
| 5/8/2017 | Background | 0.02 J | 0.65 | 26.9 | <0.004 U | 0.02 J | 0.163 | 0.398 | 0.305 | 0.40 | 0.195 | 0.019 | <0.002 U | 0.56 | 0.5 | <0.01 U |
| 7/17/2017 | Background | 0.02 J | 0.61 | 26.1 | 0.006 J | 0.02 J | 0.302 | 0.441 | 0.117 | 0.36 | 0.233 | 0.019 | <0.002 U | 0.74 | 0.5 | 0.02 J |
| 6/4/2018 | Assessment | 0.03 J | 0.49 | 22.7 | 0.005 J | 0.01 J | 0.109 | 0.128 | 1.573 | 0.56 | 0.069 | 0.019 | <0.002 U | 0.72 | 0.5 | 0.02 J |
| 8/15/2018 | Assessment | 0.02 J | 0.45 | 23.7 | <0.004 U | 0.01 J | 0.277 | 0.105 | 0.646 | 0.51 | 0.053 | 0.014 | -- | 0.65 | 0.4 | 0.02 J |
| 5/21/2019 | Assessment | 0.03 J | 0.50 | 26.7 | <0.02 U | 0.01 J | 1.34 | 0.127 | 0.6234 | 0.44 | 0.07 J | 0.01 J | <0.002 U | 0.7 J | 0.6 | <0.1 U |
| 6/25/2019 | Assessment | <0.02 U | 0.48 | 22.0 | <0.02 U | 0.01 J | 0.08 J | 0.193 | 0.528 | 0.47 | 0.09 J | 0.03 J | <0.002 U | 0.5 J | 0.4 | <0.1 U |
| 9/10/2019 | Assessment | <0.02 U | 0.46 | 21.9 | <0.02 U | 0.01 J | 0.2 J | 0.149 | 0.2093 | 0.46 | 0.08 J | 0.0126 | <0.002 U | 0.6 J | 0.5 | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1601D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/27/2016 | Background | 0.038 | 79.7 | 21.8 | 0.22 | 7.5 | 460 | 21.9 |
| 7/19/2016 | Background | 0.035 | 89.0 | 18.9 | 0.22 | 7.4 | 412 | 18.9 |
| 9/20/2016 | Background | 0.026 | 87.0 | 22.6 | 0.17 | 7.2 | 410 | 20.4 |
| 11/16/2016 | Background | 0.035 | 89.5 | 21.8 | 0.15 | 7.4 | 413 | 18.0 |
| 1/10/2017 | Background | 0.029 | 90.7 | 19.5 | 0.19 | 6.8 | 407 | 20.3 |
| 3/7/2017 | Background | 0.055 | 85.2 | 28.7 | 0.17 | 7.1 | 392 | 25.4 |
| 5/9/2017 | Background | 0.038 | 90.8 | 22.5 | 0.17 | 6.7 | 399 | 21.3 |
| 7/17/2017 | Background | 0.090 | 77.7 | 21.3 | 0.17 | 6.8 | 393 | 21.4 |
| 10/4/2017 | Detection | 0.044 | 86.8 | 17.9 | 0.16 | 7.3 | 390 | 18.8 |
| 12/12/2017 | Detection | -- | -- | 18.8 | 0.16 | 7.2 | -- | 20.2 |
| 6/5/2018 | Assessment | 0.075 | 87.6 | 23.8 | 0.19 | 6.4 | 393 | 25.0 |
| 8/15/2018 | Assessment | 0.122 | 86.5 | 19.4 | 0.17 | 7.3 | 418 | 19.6 |
| 5/24/2019 | Assessment | 0.03 J | 85.4 | 23.6 | 0.19 | 7.1 | 414 | 24.9 |
| 6/26/2019 | Assessment | 0.04 J | 85.9 | 18.7 | 0.16 | 7.2 | 409 | 22.9 |
| 9/9/2019 | Assessment | 0.03 J | 84.4 | 19.9 | 0.18 | 7.2 | 404 | 18.2 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1601D

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/27/2016 | Background | 0.03 J | 6.04 | 491 | 0.024 | 0.12 | 0.8 | 1.36 | 1.116 | 0.22 | 1.05 | 0.003 | <0.002 U | 2.54 | 0.1 | 0.01 J |
| 7/19/2016 | Background | 0.02 J | 8.20 | 540 | <0.005 U | 0.01 J | 0.4 | 0.502 | 2.248 | 0.22 | 0.031 | 0.005 | <0.002 U | 3.96 | 0.07 J | 0.055 |
| 9/20/2016 | Background | 0.01 J | 8.59 | 602 | <0.005 U | <0.004 U | 0.2 | 0.224 | 1.732 | 0.17 | 0.01 J | <0.0002 U | <0.002 U | 3.08 | <0.03 U | <0.01 U |
| 11/16/2016 | Background | 0.02 J | 9.20 | 616 | <0.005 U | 0.01 J | 0.089 | 0.174 | 0.946 | 0.15 | 0.022 | 0.015 | <0.002 U | 3.14 | <0.03 U | 0.04 J |
| 1/10/2017 | Background | <0.01 U | 8.95 | 527 | <0.005 U | <0.004 U | 0.293 | 0.197 | 1.929 | 0.19 | 0.006 J | 0.004 | <0.002 U | 3.10 | <0.03 U | <0.01 U |
| 3/7/2017 | Background | <0.01 U | 9.32 | 582 | <0.005 U | <0.004 U | 0.417 | 0.148 | 0.868 | 0.17 | 0.021 | 0.004 | <0.002 U | 2.66 | <0.03 U | <0.01 U |
| 5/9/2017 | Background | 0.02 J | 9.47 | 583 | 0.01 J | 0.01 J | 0.121 | 0.152 | 0.983 | 0.17 | 0.026 | 0.008 | <0.002 U | 2.84 | 0.03 J | 0.03 J |
| 7/17/2017 | Background | <0.01 U | 9.38 | 532 | <0.004 U | 0.006 J | 0.129 | 0.103 | 3.139 | 0.17 | 0.031 | 0.006 | <0.002 U | 2.67 | <0.03 U | <0.01 U |
| 6/5/2018 | Assessment | 0.03 J | 11.4 | 552 | <0.004 U | <0.005 U | 0.055 | 0.149 | 2.095 | 0.19 | 0.022 | 0.007 | <0.002 U | 3.34 | <0.03 U | <0.01 U |
| 8/15/2018 | Assessment | 0.02 J | 10.3 | 540 | <0.004 U | 0.01 J | 0.387 | 0.120 | 1.188 | 0.17 | 0.084 | <0.0002 U | -- | 3.11 | <0.03 U | 0.02 J |
| 5/24/2019 | Assessment | <0.02 U | 10.3 | 638 | <0.02 U | <0.01 U | 0.06 J | 0.090 | 0.977 | 0.19 | <0.02 U | 0.01 J | <0.002 U | 2.63 | 0.03 J | <0.1 U |
| 6/26/2019 | Assessment | <0.02 U | 9.80 | 542 | <0.02 U | <0.01 U | 0.07 J | 0.075 | 0.986 | 0.16 | 0.02 J | 0.02 J | <0.002 U | 2.94 | <0.03 U | <0.1 U |
| 9/9/2019 | Assessment | <0.02 U | 11 | 575 | <0.02 U | <0.01 U | 0.08 J | 0.054 | 0.702 | 0.18 | <0.05 U | 0.0017 | <0.002 U | 3.15 | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

Table 1 - Groundwater Data Summary: MW-16011
Rockport - BAP
Appendix III Constituents

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 0.024 | 84.9 | 26.3 | 0.21 | 7.4 | 419 | 54.0 |
| 7/19/2016 | Background | 0.023 | 84.1 | 33.3 | 0.25 | 7.2 | 430 | 5.40 |
| 9/20/2016 | Background | 0.043 | 85.2 | 32.3 | 0.22 | 7.1 | 432 | 49.1 |
| 11/16/2016 | Background | 0.026 | 91.6 | 31.7 | 0.19 | 7.2 | 434 | 46.7 |
| 1/10/2017 | Background | 0.018 | 92.6 | 31.3 | 0.19 | 6.7 | 429 | 47.7 |
| 3/7/2017 | Background | 0.029 | 84.0 | 32.5 | 0.22 | 7.1 | 427 | 48.5 |
| 5/9/2017 | Background | 0.079 | 90.0 | 33.1 | 0.21 | 6.8 | 422 | 49.1 |
| 7/17/2017 | Background | 0.039 | 82.0 | 32.0 | 0.19 | 9.5 | 418 | 49.9 |
| 10/4/2017 | Detection | 0.088 | 77.5 | 31.6 | 0.20 | 6.8 | 428 | 51.8 |
| 12/12/2017 | Detection | -- | -- | 30.5 | 0.21 | 7.1 | -- | 52.8 |
| 6/5/2018 | Assessment | 0.052 | 87.8 | 31.4 | 0.24 | 7.6 | 424 | 50.0 |
| 8/15/2018 | Assessment | 0.054 | 91.7 | 31.3 | 0.25 | 7.3 | 429 | 49.9 |
| 6/26/2019 | Assessment | 0.03 J | 85.0 | 31.2 | 0.21 | 7.2 | 439 | 50.8 |
| 9/9/2019 | Assessment | 0.02 J | 85.1 | 30.8 | 0.22 | 7.1 | 426 | 42.7 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-16011

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|--------|---------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.02 J | 11.4 | 612 | <0.005 U | <0.004 U | 0.1 | 1.84 | 1.432 | 0.21 | 0.042 | 0.003 | <0.002 U | 2.80 | <0.03 U | <0.01 U |
| 7/19/2016 | Background | 0.02 J | 14.6 | 620 | <0.005 U | <0.004 U | 0.9 | 1.98 | 1.036 | 0.25 | 0.045 | 0.004 | <0.002 U | 2.81 | <0.03 U | <0.01 U |
| 9/20/2016 | Background | 0.02 J | 14.9 | 681 | <0.005 U | <0.004 U | 0.2 | 1.68 | 2.329 | 0.22 | 0.02 J | 0.008 | <0.002 U | 2.53 | <0.03 U | 0.01 J |
| 11/16/2016 | Background | 0.02 J | 16.2 | 689 | <0.005 U | 0.007 J | 0.110 | 1.68 | 1.451 | 0.19 | 0.030 | 0.002 | <0.002 U | 2.36 | <0.03 U | 0.02 J |
| 1/10/2017 | Background | 0.01 J | 16.2 | 605 | <0.005 U | <0.004 U | 0.387 | 1.58 | 0.993 | 0.19 | 0.02 J | 0.007 | <0.002 U | 2.24 | <0.03 U | 0.02 J |
| 3/7/2017 | Background | 0.03 J | 16.9 | 650 | <0.005 U | <0.004 U | 0.267 | 1.59 | 0.986 | 0.22 | 0.070 | 0.010 | <0.002 U | 2.74 | 0.06 J | 0.03 J |
| 5/9/2017 | Background | 0.02 J | 17.9 | 634 | <0.004 U | <0.005 U | 0.156 | 1.69 | 1.064 | 0.21 | 0.052 | 0.014 | <0.002 U | 2.23 | 0.05 J | 0.02 J |
| 7/17/2017 | Background | 0.02 J | 18.0 | 613 | <0.004 U | <0.005 U | 0.160 | 1.74 | 1.276 | 0.19 | 0.042 | 0.011 | <0.002 U | 2.13 | <0.03 U | 0.02 J |
| 6/5/2018 | Assessment | 0.02 J | 18.6 | 631 | 0.008 J | 0.01 J | 0.210 | 1.73 | 1.538 | 0.24 | 0.201 | 0.013 | <0.002 U | 2.48 | 0.05 J | 0.04 J |
| 8/15/2018 | Assessment | 0.02 J | 19.1 | 626 | <0.004 U | 0.009 J | 0.074 | 1.63 | 2.274 | 0.25 | 0.067 | 0.009 | -- | 2.21 | <0.03 U | 0.02 J |
| 6/26/2019 | Assessment | <0.02 U | 18.0 | 619 | <0.02 U | <0.01 U | 0.06 J | 1.50 | 1.862 | 0.21 | 0.04 J | 0.02 J | <0.002 U | 2.28 | <0.03 U | <0.1 U |
| 9/9/2019 | Assessment | 0.04 J | 39.5 | 670 | <0.02 U | 0.07 | 0.250 | 1.63 | 1.522 | 0.22 | 0.251 | 0.00672 | <0.002 U | 2.26 | 0.04 J | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1601S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 0.108 | 76.9 | 45.9 | 0.34 | 7.6 | 440 | 39.2 |
| 7/19/2016 | Background | 0.106 | 71.8 | 46.4 | 0.36 | 7.2 | 415 | 40.1 |
| 9/20/2016 | Background | 0.094 | 74.2 | 43.5 | 0.33 | 7.2 | 442 | 37.6 |
| 11/16/2016 | Background | 0.100 | 78.2 | 42.3 | 0.26 | 7.2 | 442 | 36.4 |
| 1/10/2017 | Background | 0.113 | 78.5 | 42.0 | 0.28 | 6.8 | 424 | 35.9 |
| 3/7/2017 | Background | 0.098 | 79.2 | 41.1 | 0.30 | 7.2 | 413 | 42.5 |
| 5/8/2017 | Background | 0.092 | 86.7 | 41.9 | 0.31 | 6.8 | 389 | 44.0 |
| 7/17/2017 | Background | 0.077 | 76.8 | 41.7 | 0.25 | 6.6 | 443 | 40.5 |
| 10/4/2017 | Detection | 0.113 | 73.5 | 40.9 | 0.29 | 7.3 | 441 | 41.6 |
| 12/12/2017 | Detection | -- | -- | 36.9 | 0.33 | 7.2 | -- | 43.0 |
| 6/5/2018 | Assessment | 0.142 | 66.5 | 34.8 | 0.41 | 7.4 | 366 | 26.5 |
| 8/15/2018 | Assessment | 0.208 | 70.8 | 33.7 | 0.42 | 7.2 | 374 | 31.3 |
| 5/24/2019 | Assessment | 0.06 J | 77.2 | 38.5 | 0.36 | 7.2 | 451 | 41.8 |
| 6/25/2019 | Assessment | 0.07 J | 75.9 | 35.3 | 0.31 | 7.3 | 456 | 51.4 |
| 9/9/2019 | Assessment | 0.068 | 79.6 | 37.6 | 0.31 | 7.2 | 445 | 52.9 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1601S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|--------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.02 J | 1.90 | 49.4 | 0.006 J | 0.01 J | 0.2 | 0.957 | 0.788 | 0.34 | 0.220 | <0.0002 U | <0.002 U | 2.17 | 1.3 | 0.05 J |
| 7/19/2016 | Background | 0.02 J | 2.12 | 47.7 | <0.005 U | 0.007 J | 0.6 | 0.478 | 1.26 | 0.36 | 0.114 | 0.024 | <0.002 U | 1.91 | 1.3 | <0.01 U |
| 9/20/2016 | Background | 0.02 J | 1.99 | 41.6 | <0.005 U | 0.006 J | 0.2 | 0.381 | 0.4671 | 0.33 | 0.127 | 0.005 | <0.002 U | 1.40 | 1.3 | 0.03 J |
| 11/16/2016 | Background | 0.03 J | 2.00 | 39.0 | <0.005 U | 0.01 J | 0.123 | 0.274 | 0.1634 | 0.26 | 0.084 | 0.009 | <0.002 U | 2.17 | 1.3 | 0.03 J |
| 1/10/2017 | Background | 0.05 J | 2.00 | 43.5 | <0.005 U | 0.03 | 0.279 | 0.520 | 0.717 | 0.28 | 0.247 | 0.006 | <0.002 U | 1.61 | 1.4 | 0.104 |
| 3/7/2017 | Background | 0.02 J | 2.25 | 50.7 | <0.005 U | 0.01 J | 1.52 | 0.980 | 0.1969 | 0.30 | 0.348 | 0.010 | <0.002 U | 1.49 | 1.4 | 0.01 J |
| 5/8/2017 | Background | 0.02 J | 2.02 | 42.6 | <0.004 U | <0.005 U | 0.192 | 0.411 | 0.3203 | 0.31 | 0.119 | 0.010 | <0.002 U | 1.24 | 1.7 | 0.01 J |
| 7/17/2017 | Background | 0.05 | 2.70 | 70.0 | 0.01 J | 0.03 | 1.05 | 2.67 | 1.812 | 0.25 | 0.807 | 0.012 | 0.003 J | 1.46 | 1.8 | 0.04 J |
| 6/5/2018 | Assessment | 0.04 J | 2.45 | 44.0 | 0.02 J | 0.24 | 0.579 | 0.615 | 0.261 | 0.41 | 0.349 | 0.012 | <0.002 U | 1.79 | 0.5 | <0.01 U |
| 8/15/2018 | Assessment | 0.03 J | 2.28 | 38.0 | 0.005 J | 0.009 J | 0.114 | 0.557 | 0.398 | 0.42 | 0.141 | 0.004 | -- | 1.81 | 1.1 | 0.05 J |
| 5/24/2019 | Assessment | <0.02 U | 2.05 | 37.2 | <0.02 U | <0.01 U | 0.08 J | 0.02 J | 0.0711 | 0.36 | 0.03 J | 0.01 J | <0.002 U | 1 J | 1.7 | <0.1 U |
| 6/25/2019 | Assessment | <0.02 U | 2.06 | 44.2 | <0.02 U | <0.01 U | 0.1 J | 0.649 | 0.248 | 0.31 | 0.165 | 0.01 J | <0.002 U | 1 J | 1.4 | <0.1 U |
| 9/9/2019 | Assessment | 0.02 J | 2.30 | 51.4 | <0.02 U | 0.02 J | 0.452 | 1.14 | 0.914 | 0.31 | 0.325 | 0.00691 | <0.002 U | 1 J | 1.2 | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1602D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.058 | 69.7 | 138 | 0.36 | 5.1 | 528 | 20.5 |
| 7/18/2016 | Background | 0.065 | 77.6 | 166 | 0.34 | 8.2 | 574 | 18.5 |
| 9/20/2016 | Background | 0.047 | 71.7 | 172 | 0.30 | 7.8 | 580 | 12.9 |
| 11/15/2016 | Background | 0.078 | 78.0 | 177 | 0.33 | 7.1 | 601 | 17.4 |
| 1/9/2017 | Background | 0.084 | 75.3 | 178 | 0.34 | 7.3 | 594 | 11.4 |
| 3/7/2017 | Background | 0.076 | 66.8 | 158 | 0.31 | 7.3 | 586 | 14.5 |
| 5/8/2017 | Background | 0.073 | 71.9 | 124 | 0.31 | 7.0 | 520 | 16.1 |
| 7/17/2017 | Background | 0.091 | 64.6 | 112 | 0.26 | 7.0 | 472 | 17.5 |
| 10/3/2017 | Detection | 0.064 | 68.3 | 135 | 0.29 | 7.4 | 518 | 16.0 |
| 12/12/2017 | Detection | -- | -- | 141 | 0.30 | 7.4 | -- | 16.9 |
| 1/3/2018 | Detection | -- | -- | 146 | -- | 7.8 | 574 | -- |
| 6/5/2018 | Assessment | 0.060 | 66.0 | 92.8 | 0.35 | 7.8 | 440 | 21.6 |
| 8/13/2018 | Assessment | 0.098 | 73.0 | 131 | 0.31 | 7.2 | 521 | 18.0 |
| 5/24/2019 | Assessment | 0.04 J | 67.9 | 68.3 | 0.33 | 7.4 | 418 | 20.5 |
| 6/27/2019 | Assessment | 0.06 J | 69.8 | 68.7 | 0.33 | 7.3 | 429 | 20.3 |
| 9/12/2019 | Assessment | 0.059 | 57.8 | 65.1 | 0.28 | 7.1 | 440 | 20.2 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1602D

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.02 J | 7.35 | 380 | <0.005 U | <0.004 U | 0.3 | 0.227 | 1.147 | 0.36 | 0.061 | 0.001 | <0.002 U | 4.69 | 0.03 J | <0.01 U |
| 7/18/2016 | Background | 0.01 J | 8.54 | 507 | <0.005 U | <0.004 U | 0.5 | 0.166 | 2.43 | 0.34 | 0.02 J | 0.022 | <0.002 U | 3.89 | <0.03 U | <0.01 U |
| 9/20/2016 | Background | 0.02 J | 8.24 | 487 | <0.005 U | <0.004 U | 0.2 | 0.116 | 1.128 | 0.30 | 0.022 | 0.007 | <0.002 U | 3.31 | 0.03 J | <0.01 U |
| 11/15/2016 | Background | 0.03 J | 8.32 | 585 | 0.01 J | 0.02 | 0.338 | 0.248 | 4.204 | 0.33 | 0.195 | 0.012 | <0.002 U | 3.31 | 0.05 J | 0.066 |
| 1/9/2017 | Background | 0.01 J | 7.92 | 503 | <0.005 U | <0.004 U | 0.187 | 0.112 | 0.976 | 0.34 | 0.01 J | 0.005 | <0.002 U | 3.36 | <0.03 U | 0.02 J |
| 3/7/2017 | Background | 0.01 J | 8.04 | 458 | <0.005 U | <0.004 U | 0.395 | 0.106 | 0.705 | 0.31 | 0.029 | 0.004 | <0.002 U | 3.88 | 0.05 J | 0.02 J |
| 5/8/2017 | Background | 0.01 J | 9.08 | 436 | <0.004 U | 0.07 | 0.232 | 0.115 | 0.5884 | 0.31 | 0.056 | 0.007 | <0.002 U | 3.93 | <0.03 U | <0.01 U |
| 7/17/2017 | Background | 0.01 J | 8.51 | 419 | 0.005 J | <0.005 U | 0.268 | 0.110 | 1.349 | 0.26 | 0.036 | 0.003 | <0.002 U | 3.60 | <0.03 U | <0.01 U |
| 6/5/2018 | Assessment | 0.02 J | 10.0 | 442 | 0.006 J | 0.01 J | 0.210 | 0.157 | 1.861 | 0.35 | 0.103 | 0.008 | <0.002 U | 3.93 | <0.03 U | <0.01 U |
| 8/13/2018 | Assessment | 0.01 J | 9.28 | 459 | 0.008 J | <0.005 U | 0.201 | 0.173 | 1.021 | 0.31 | 0.113 | 0.002 | -- | 3.18 | 0.05 J | <0.01 U |
| 5/24/2019 | Assessment | <0.02 U | 9.29 | 405 | <0.02 U | <0.01 U | 0.05 J | 0.065 | 0.71 | 0.33 | <0.02 U | 0.01 J | <0.002 U | 3.23 | 0.03 J | <0.1 U |
| 6/27/2019 | Assessment | <0.02 U | 9.05 | 386 | <0.02 U | <0.01 U | 0.06 J | 0.066 | 0.688 | 0.33 | 0.02 J | <0.009 U | <0.002 U | 3.12 | 0.03 J | <0.1 U |
| 9/12/2019 | Assessment | 0.17 | 10.3 | 433 | 0.02 J | 0.03 J | 0.763 | 0.373 | 1.13 | 0.28 | 0.437 | 0.00286 | <0.002 U | 3.64 | 0.09 J | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

Table 1 - Groundwater Data Summary: MW-1602I

**Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.047 | 78.6 | 33.0 | 0.32 | 7.1 | 424 | 84.1 |
| 7/18/2016 | Background | 0.043 | 81.1 | 32.3 | 0.30 | 7.4 | 452 | 89.4 |
| 9/20/2016 | Background | 0.037 | 79.9 | 30.2 | 0.28 | 7.3 | 412 | 77.7 |
| 11/15/2016 | Background | 0.057 | 87.6 | 28.7 | 0.29 | 7.1 | 457 | 85.3 |
| 1/9/2017 | Background | 0.039 | 80.6 | 27.8 | 0.26 | 7.4 | 420 | 77.6 |
| 3/7/2017 | Background | 0.061 | 71.1 | 27.5 | 0.27 | 7.3 | 388 | 77.8 |
| 5/8/2017 | Background | 0.108 | 79.7 | 27.6 | 0.28 | 6.9 | 430 | 78.4 |
| 7/17/2017 | Background | 0.052 | 68.8 | 27.1 | 0.23 | 6.9 | 421 | 76.3 |
| 10/3/2017 | Detection | 0.065 | 69.2 | 27.5 | 0.26 | 7.3 | 414 | 80.8 |
| 12/12/2017 | Detection | -- | -- | 28.3 | 0.26 | 7.3 | -- | 82.8 |
| 1/3/2018 | Detection | -- | -- | -- | -- | 7.7 | -- | 82.3 |
| 6/5/2018 | Assessment | 0.060 | 71.3 | 29.8 | 0.31 | 7.8 | 410 | 77.6 |
| 8/13/2018 | Assessment | 0.109 | 76.0 | 28.5 | 0.28 | 7.4 | 405 | 75.0 |
| 5/24/2019 | Assessment | 0.05 J | 74.6 | 29.0 | 0.30 | 7.4 | 410 | 65.9 |
| 6/27/2019 | Assessment | 0.06 J | 76.2 | 29.2 | 0.30 | 7.3 | 405 | 67.4 |
| 9/12/2019 | Assessment | 0.051 | 83.1 | 28.7 | 0.30 | 7.3 | 404 | 70.7 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1602I

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|--------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.02 J | 16.5 | 135 | <0.005 U | 0.005 J | 0.2 | 1.35 | 0.983 | 0.32 | 0.096 | 0.003 | <0.002 U | 2.61 | <0.03 U | <0.01 U |
| 7/18/2016 | Background | 0.02 J | 18.7 | 145 | <0.005 U | 0.006 J | 0.2 | 1.70 | 1.526 | 0.30 | 0.074 | 0.006 | <0.002 U | 2.68 | 0.03 J | 0.01 J |
| 9/20/2016 | Background | 0.02 J | 15.5 | 123 | <0.005 U | <0.004 U | 0.2 | 1.34 | 1.421 | 0.28 | 0.045 | 0.006 | <0.002 U | 2.31 | 0.05 J | 0.01 J |
| 11/15/2016 | Background | 0.03 J | 18.2 | 136 | <0.005 U | 0.006 J | 0.075 | 1.44 | 1.19 | 0.29 | 0.02 J | 0.015 | <0.002 U | 2.13 | 0.04 J | 0.03 J |
| 1/9/2017 | Background | 0.02 J | 18.3 | 126 | <0.005 U | <0.004 U | 0.161 | 1.38 | 0.7655 | 0.26 | 0.045 | 0.003 | <0.002 U | 2.23 | <0.03 U | 0.02 J |
| 3/7/2017 | Background | 0.03 J | 20.0 | 122 | 0.005 J | <0.004 U | 0.484 | 1.43 | 0.845 | 0.27 | 0.178 | 0.009 | <0.002 U | 2.21 | 0.06 J | 0.02 J |
| 5/8/2017 | Background | 0.14 | 25.5 | 123 | 0.008 J | 0.01 J | 0.459 | 1.69 | 1.024 | 0.28 | 0.292 | 0.009 | <0.002 U | 2.08 | 0.05 J | 0.02 J |
| 7/17/2017 | Background | 0.05 | 27.3 | 127 | 0.006 J | 0.006 J | 0.193 | 1.52 | 0.8024 | 0.23 | 0.167 | 0.010 | <0.002 U | 2.01 | <0.03 U | 0.04 J |
| 6/5/2018 | Assessment | 0.10 | 38.6 | 128 | 0.01 J | 0.01 J | 0.338 | 1.80 | 0.968 | 0.31 | 0.374 | 0.013 | <0.002 U | 2.42 | 0.07 J | 0.03 J |
| 8/13/2018 | Assessment | 0.05 J | 26.9 | 111 | 0.006 J | 0.007 J | 0.086 | 1.31 | 0.9 | 0.28 | 0.092 | 0.001 | -- | 2.10 | <0.03 U | 0.03 J |
| 5/24/2019 | Assessment | 0.08 J | 29.6 | 121 | <0.02 U | 0.03 J | 0.305 | 1.75 | 0.819 | 0.30 | 0.354 | 0.009 J | <0.002 U | 2.03 | 0.04 J | <0.1 U |
| 6/27/2019 | Assessment | 0.03 J | 22.4 | 115 | <0.02 U | <0.01 U | 0.2 J | 1.39 | 0.733 | 0.30 | 0.06 J | <0.009 U | <0.002 U | 2 J | <0.03 U | <0.1 U |
| 9/12/2019 | Assessment | 0.04 J | 30.0 | 120 | <0.02 U | <0.01 U | 0.1 J | 1.32 | 1.312 | 0.30 | 0.1 J | 0.00572 | <0.002 U | 2.11 | 0.03 J | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1603D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 0.073 | 70.8 | 26.7 | 0.31 | 7.1 | 433 | 59.0 |
| 7/18/2016 | Background | 0.074 | 79.6 | 26.7 | 0.33 | 6.9 | 430 | 55.3 |
| 10/10/2016 | Background | 0.065 | 81.2 | 26.0 | 0.32 | 7.3 | 406 | 47.2 |
| 11/15/2016 | Background | 0.062 | 90.5 | 25.5 | 0.30 | 7.1 | 399 | 50.6 |
| 1/9/2017 | Background | 0.055 | 91.9 | 25.1 | 0.26 | 7.3 | 401 | 49.7 |
| 3/7/2017 | Background | 0.061 | 86.8 | 26.1 | 0.29 | 7.2 | 392 | 47.7 |
| 5/8/2017 | Background | 0.082 | 91.1 | 26.3 | 0.27 | 7.2 | 417 | 47.1 |
| 7/17/2017 | Background | 0.080 | 80.4 | 25.9 | 0.24 | 6.7 | 400 | 45.9 |
| 10/3/2017 | Detection | 0.054 | 79.4 | 26.2 | 0.26 | 7.1 | 393 | 44.6 |
| 12/12/2017 | Detection | -- | -- | 27.0 | 0.27 | 7.0 | -- | 42.3 |
| 6/5/2018 | Assessment | 0.081 | 80.6 | 30.1 | 0.30 | 7.2 | 412 | 40.9 |
| 8/13/2018 | Assessment | 0.147 | 87.9 | 25.4 | 0.27 | 7.1 | 385 | 39.1 |
| 5/21/2019 | Assessment | 0.04 J | 71.6 | 25.3 | 0.28 | 7.2 | 397 | 38.5 |
| 6/27/2019 | Assessment | 0.06 J | 77.9 | 25.0 | 0.30 | 7.6 | 388 | 32.8 |
| 9/11/2019 | Assessment | 0.04 J | 82.8 | 26.1 | 0.30 | 7.2 | 407 | 36.4 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1603D

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.01 J | 10.2 | 112 | <0.005 U | <0.004 U | 0.2 | 1.34 | 1.206 | 0.31 | 0.02 J | 0.003 | <0.002 U | 6.70 | <0.03 U | <0.01 U |
| 7/18/2016 | Background | 0.02 J | 11.0 | 120 | <0.005 U | 0.007 J | 0.3 | 1.30 | 0.66 | 0.33 | 0.01 J | 0.008 | <0.002 U | 6.39 | 0.04 J | 0.068 |
| 10/10/2016 | Background | 0.09 | 9.91 | 122 | 0.049 | 0.03 | 23.8 | 2.01 | 0.954 | 0.32 | 1.38 | 0.007 | <0.002 U | 6.82 | 0.3 | 0.04 J |
| 11/15/2016 | Background | 0.03 J | 11.3 | 113 | <0.01 U | 0.01 J | 0.08 J | 0.703 | 1.275 | 0.30 | 0.02 J | 0.011 | <0.002 U | 5.02 | <0.06 U | <0.02 U |
| 1/9/2017 | Background | 0.01 J | 11.3 | 111 | <0.005 U | 0.009 J | 0.143 | 0.584 | 0.343 | 0.26 | 0.029 | 0.012 | <0.002 U | 4.98 | <0.03 U | <0.01 U |
| 3/7/2017 | Background | 0.01 J | 11.3 | 108 | <0.005 U | <0.004 U | 0.220 | 0.553 | 0.838 | 0.29 | 0.024 | 0.007 | <0.002 U | 5.11 | 0.04 J | 0.02 J |
| 5/8/2017 | Background | 0.01 J | 11.3 | 103 | <0.004 U | <0.005 U | 0.238 | 0.586 | 0.982 | 0.27 | 0.068 | 0.006 | <0.002 U | 4.78 | 0.07 J | <0.01 U |
| 7/17/2017 | Background | 0.02 J | 12.1 | 114 | <0.004 U | <0.005 U | 0.112 | 0.525 | 1.696 | 0.24 | 0.006 J | 0.008 | <0.002 U | 4.68 | <0.03 U | <0.01 U |
| 6/5/2018 | Assessment | 0.02 J | 12.3 | 109 | 0.009 J | <0.005 U | 0.251 | 0.441 | 1.607 | 0.30 | 0.207 | 0.008 | <0.002 U | 4.09 | 0.09 J | 0.03 J |
| 8/13/2018 | Assessment | 0.02 J | 12.5 | 105 | <0.004 U | <0.005 U | 0.097 | 0.409 | 0.84 | 0.27 | 0.040 | 0.005 | -- | 4.38 | <0.03 U | 0.02 J |
| 5/21/2019 | Assessment | <0.02 U | 12.6 | 111 | <0.02 U | <0.01 U | 0.05 J | 0.354 | 0.73 | 0.28 | 0.04 J | <0.009 U | <0.002 U | 4.56 | <0.03 U | <0.1 U |
| 6/27/2019 | Assessment | <0.02 U | 13.2 | 111 | <0.02 U | <0.01 U | 0.06 J | 0.327 | 0.766 | 0.30 | <0.02 U | <0.009 U | <0.002 U | 3.98 | <0.03 U | <0.1 U |
| 9/11/2019 | Assessment | <0.02 U | 13.2 | 112 | <0.02 U | <0.01 U | 0.2 J | 0.327 | 0.957 | 0.30 | 0.08 J | 0.0038 | <0.002 U | 4.10 | 0.03 J | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1603I
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 0.151 | 89.2 | 37.7 | 0.39 | 7.6 | 465 | 71.9 |
| 7/18/2016 | Background | 0.157 | 93.9 | 38.8 | 0.43 | 7.2 | 502 | 83.8 |
| 9/20/2016 | Background | 0.153 | 99.8 | 40.1 | 0.39 | 7.3 | 500 | 111 |
| 11/15/2016 | Background | 0.173 | 101 | 37.4 | 0.42 | 7.2 | 481 | 88.5 |
| 1/9/2017 | Background | 0.147 | 94.7 | 34.6 | 0.38 | 7.2 | 478 | 75.3 |
| 3/7/2017 | Background | 0.187 | 85.0 | 34.7 | 0.40 | 7.3 | 460 | 73.2 |
| 5/8/2017 | Background | 0.187 | 87.2 | 36.8 | 0.40 | 7.3 | 452 | 71.0 |
| 7/17/2017 | Background | 0.196 | 79.3 | 35.1 | 0.35 | 9.8 | 449 | 74.9 |
| 10/3/2017 | Detection | 0.134 | 80.9 | 35.6 | 0.39 | 7.2 | 442 | 74.1 |
| 12/12/2017 | Detection | -- | -- | 57.4 | 0.52 | 6.8 | -- | 201 |
| 1/3/2018 | Detection | 0.166 | -- | -- | -- | 7.9 | -- | 65.1 |
| 6/5/2018 | Assessment | 0.131 | 77.7 | 37.3 | 0.46 | 7.3 | 424 | 62.0 |
| 8/13/2018 | Assessment | 0.130 | 85.9 | 31.5 | 0.43 | 7.4 | 434 | 66.2 |
| 5/21/2019 | Assessment | 0.06 J | 81.4 | 39.4 | 0.45 | 7.3 | 467 | 74.6 |
| 6/27/2019 | Assessment | 0.07 J | 78.6 | 37.7 | 0.47 | 8.1 | 560 | 66.9 |
| 9/11/2019 | Assessment | 0.087 | 80.1 | 38.7 | 0.46 | 7.3 | 443 | 58.2 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-16031

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.05 J | 13.0 | 81.1 | <0.005 U | 0.004 J | 0.3 | 1.36 | 0.593 | 0.39 | 0.117 | <0.0002 U | <0.002 U | 8.86 | <0.03 U | 0.03 J |
| 7/18/2016 | Background | 0.03 J | 12.8 | 83.1 | <0.005 U | <0.004 U | 0.8 | 1.3 | 1.821 | 0.43 | 0.053 | 0.013 | <0.002 U | 9.76 | <0.03 U | 0.02 J |
| 9/20/2016 | Background | 0.03 J | 12.2 | 94.2 | <0.005 U | <0.004 U | 0.1 | 1.3 | 0.904 | 0.39 | 0.008 J | 0.009 | <0.002 U | 9.85 | 0.04 J | 0.04 J |
| 11/15/2016 | Background | 0.04 J | 12.2 | 86.6 | <0.005 U | 0.007 J | 0.074 | 1.17 | 1.583 | 0.42 | 0.021 | 0.015 | <0.002 U | 9.21 | <0.03 U | 0.03 J |
| 1/9/2017 | Background | 0.03 J | 12.9 | 84.6 | <0.005 U | <0.004 U | 0.232 | 1.26 | 1.417 | 0.38 | 0.066 | 0.008 | <0.002 U | 9.47 | <0.03 U | 0.03 J |
| 3/7/2017 | Background | 0.03 J | 12.5 | 82.5 | <0.005 U | <0.004 U | 0.743 | 1.10 | 1.076 | 0.40 | 0.057 | 0.009 | <0.002 U | 8.79 | 0.05 J | 0.05 J |
| 5/8/2017 | Background | 0.03 J | 13.0 | 76.8 | <0.004 U | <0.005 U | 0.145 | 1.24 | 0.824 | 0.40 | 0.174 | 0.009 | <0.002 U | 8.86 | <0.03 U | 0.03 J |
| 7/17/2017 | Background | 0.03 J | 12.5 | 85.3 | <0.004 U | <0.005 U | 0.109 | 1.30 | 2.746 | 0.35 | 0.02 J | 0.013 | <0.002 U | 8.27 | <0.03 U | 0.05 J |
| 6/5/2018 | Assessment | 0.10 | 12.7 | 88.4 | 0.01 J | 0.02 J | 1.11 | 1.40 | 2.348 | 0.46 | 0.374 | 0.012 | <0.002 U | 7.31 | 0.07 J | 0.03 J |
| 8/13/2018 | Assessment | 0.03 J | 12.4 | 80.0 | <0.004 U | <0.005 U | 0.081 | 1.27 | 1.152 | 0.43 | 0.030 | 0.002 | -- | 7.67 | <0.03 U | 0.04 J |
| 5/21/2019 | Assessment | 0.02 J | 12.9 | 81.6 | <0.02 U | <0.01 U | 0.08 J | 1.39 | 0.832 | 0.45 | <0.02 U | <0.009 U | <0.002 U | 6.45 | <0.03 U | <0.1 U |
| 6/27/2019 | Assessment | 0.07 J | 12.7 | 84.3 | <0.02 U | 0.01 J | 0.678 | 1.58 | 0.966 | 0.47 | 0.312 | <0.009 U | <0.002 U | 6.29 | 0.07 J | <0.1 U |
| 9/11/2019 | Assessment | 0.08 J | 13.2 | 83.0 | <0.02 U | <0.01 U | 0.355 | 1.36 | 1.41 | 0.46 | 0.2 J | 0.00711 | <0.002 U | 7.48 | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1603S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|-------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/8/2016 | Background | 1.77 | 49.6 | 60.3 | 0.44 | 7.6 | 480 | 197 |
| 7/18/2016 | Background | 1.77 | 46.4 | 53.6 | 0.50 | 7.2 | 445 | 171 |
| 9/20/2016 | Background | 1.83 | 59.3 | 57.6 | 0.39 | 7.0 | 479 | 197 |
| 11/15/2016 | Background | 2.19 | 71.9 | 50.9 | 0.43 | 6.9 | 469 | 208 |
| 1/9/2017 | Background | 2.22 | 74.8 | 55.6 | 0.40 | 6.5 | 483 | 220 |
| 3/7/2017 | Background | 1.72 | 99.4 | 67.6 | 0.33 | 6.7 | 581 | 261 |
| 5/8/2017 | Background | 1.25 | 81.7 | 55.1 | 0.36 | 6.9 | 466 | 203 |
| 7/17/2017 | Background | 1.94 | 68.1 | 52.9 | 0.27 | 9.6 | 482 | 222 |
| 10/3/2017 | Detection | 1.84 | 51.5 | 20.8 | 0.17 | 6.9 | 481 | 75.1 |
| 12/12/2017 | Detection | -- | -- | 33.9 | 0.41 | 7.1 | -- | 65.8 |
| 1/3/2018 | Detection | 1.67 | -- | -- | -- | 7.5 | 514 | 218 |
| 6/5/2018 | Assessment | 1.40 | 42.2 | 54.3 | 0.63 | 7.0 | 504 | 178 |
| 8/13/2018 | Assessment | 1.70 | 52.0 | 69.7 | 0.56 | 7.0 | 558 | 243 |
| 5/21/2019 | Assessment | 1.47 | 62.6 | 56.0 | 0.55 | 6.6 | 506 | 187 |
| 6/27/2019 | Assessment | 1.65 | 67.2 | 57.8 | 0.59 | 7.3 | 530 | 205 |
| 9/11/2019 | Assessment | 2.16 | 55.1 | 51.1 | 0.69 | 7.1 | 482 | 224 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1603S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/8/2016 | Background | 0.04 J | 0.36 | 13.0 | <0.005 U | 0.02 | 0.2 | 0.648 | 0.485 | 0.44 | 0.171 | <0.0002 U | <0.002 U | 1.36 | 0.04 J | 0.02 J |
| 7/18/2016 | Background | 0.05 J | 0.27 | 12.5 | <0.005 U | 0.02 | 0.2 | 0.656 | 1.123 | 0.50 | 0.130 | 0.013 | <0.002 U | 0.74 | <0.03 U | 0.02 J |
| 9/20/2016 | Background | 0.04 J | 0.21 | 16.7 | <0.005 U | 0.02 J | 0.3 | 0.310 | 1.373 | 0.39 | 0.025 | 0.007 | <0.002 U | 0.50 | 0.7 | 0.04 J |
| 11/15/2016 | Background | 0.06 | 0.19 | 18.4 | 0.008 J | 0.03 | 0.104 | 0.233 | 0.508 | 0.43 | 0.072 | 0.013 | <0.002 U | 0.39 | 0.2 | 0.091 |
| 1/9/2017 | Background | 0.04 J | 0.20 | 16.2 | <0.005 U | 0.02 J | 0.653 | 0.176 | 0.391 | 0.40 | 0.023 | 0.002 | <0.002 U | 0.47 | 0.06 J | 0.02 J |
| 3/7/2017 | Background | 0.06 | 0.18 | 22.3 | <0.005 U | 0.06 | 0.530 | 0.092 | 0.2002 | 0.33 | 0.037 | 0.005 | <0.002 U | 0.23 | 0.2 | 0.02 J |
| 5/8/2017 | Background | 0.03 J | 0.23 | 16.3 | <0.004 U | <0.005 U | 0.325 | 0.219 | 0.4136 | 0.36 | 0.116 | 0.006 | <0.002 U | 0.15 | <0.03 U | 0.03 J |
| 7/17/2017 | Background | 0.04 J | 0.19 | 16.2 | <0.004 U | 0.03 | 0.154 | 0.349 | 2.9307 | 0.27 | 0.042 | 0.007 | <0.002 U | 0.20 | 0.06 J | 0.02 J |
| 6/5/2018 | Assessment | 0.06 | 0.36 | 12.4 | 0.01 J | 0.03 | 0.261 | 0.881 | 2.059 | 0.63 | 0.339 | 0.012 | <0.002 U | 2.74 | 0.1 | 0.03 J |
| 8/13/2018 | Assessment | 0.04 J | 0.20 | 10.5 | 0.01 J | 0.02 | 0.058 | 0.506 | 0.762 | 0.56 | 0.047 | 0.002 | -- | 1.78 | 0.04 J | 0.054 |
| 5/21/2019 | Assessment | 0.03 J | 0.17 | 14.0 | <0.02 U | 0.02 J | 0.09 J | 0.417 | 0.5289 | 0.55 | <0.02 U | <0.009 U | <0.002 U | <0.4 U | 0.08 J | <0.1 U |
| 6/27/2019 | Assessment | 0.03 J | 0.17 | 13.7 | <0.02 U | 0.03 J | 0.06 J | 0.383 | 0.555 | 0.59 | <0.02 U | <0.009 U | <0.002 U | 0.5 J | 1.5 | <0.1 U |
| 9/11/2019 | Assessment | 0.04 J | 0.22 | 12.0 | <0.02 U | 0.02 J | 0.04 J | 0.266 | 0.172 | 0.69 | <0.05 U | 0.00414 | <0.002 U | 0.6 J | 0.3 | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1604D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.032 | 70.8 | 19.6 | 0.30 | 7.1 | 292 | 39.1 |
| 7/18/2016 | Background | 0.022 | 67.8 | 19.3 | 0.28 | 6.9 | 332 | 38.6 |
| 9/19/2016 | Background | 0.010 | 69.8 | 17.8 | 0.26 | 7.3 | 280 | 31.9 |
| 11/15/2016 | Background | 0.025 | 74.9 | 18.0 | 0.27 | 7.1 | 320 | 35.0 |
| 1/9/2017 | Background | 0.016 | 72.9 | 17.1 | 0.24 | 7.2 | 326 | 29.6 |
| 3/7/2017 | Background | 0.075 | 67.2 | 17.4 | 0.24 | 7.3 | 290 | 30.4 |
| 5/8/2017 | Background | 0.050 | 71.8 | 17.3 | 0.26 | 7.2 | 318 | 29.2 |
| 7/18/2017 | Background | 0.095 | 63.7 | 16.9 | 0.21 | 7.2 | 304 | 28.7 |
| 10/3/2017 | Detection | 0.075 | 62.7 | 16.5 | 0.24 | 7.3 | 318 | 28.7 |
| 12/13/2017 | Detection | -- | -- | 16.3 | 0.24 | 7.3 | -- | 29.3 |
| 6/6/2018 | Assessment | 0.037 | 67.6 | 16.1 | 0.28 | 7.3 | 308 | 26.3 |
| 8/14/2018 | Assessment | 0.052 | 70.5 | 16.4 | 0.26 | 7.1 | 311 | 26.2 |
| 5/21/2019 | Assessment | 0.03 J | 69.3 | 16.1 | 0.27 | 7.2 | 309 | 27.4 |
| 6/26/2019 | Assessment | 0.03 J | 69.5 | 15.8 | 0.28 | 7.3 | 326 | 23.2 |
| 9/10/2019 | Assessment | 0.02 J | 74.7 | 15.9 | 0.28 | 7.3 | 326 | 24.7 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1604D

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.02 J | 14.6 | 216 | <0.005 U | <0.004 U | 0.2 | 0.119 | 0.374 | 0.30 | 0.098 | 0.002 | <0.002 U | 3.96 | <0.03 U | <0.01 U |
| 7/18/2016 | Background | 0.01 J | 17.9 | 239 | <0.005 U | <0.004 U | 0.2 | 0.086 | 0.8422 | 0.28 | 0.022 | 0.010 | <0.002 U | 3.33 | 0.04 J | <0.01 U |
| 9/19/2016 | Background | 0.01 J | 16.2 | 234 | <0.005 U | <0.004 U | 0.1 | 0.052 | 0.377 | 0.26 | 0.02 J | 0.004 | <0.002 U | 2.82 | <0.03 U | <0.01 U |
| 11/15/2016 | Background | 0.03 J | 16.7 | 247 | <0.005 U | 0.008 J | 0.117 | 0.047 | 0.454 | 0.27 | 0.02 J | 0.009 | <0.002 U | 2.80 | <0.03 U | 0.02 J |
| 1/9/2017 | Background | 0.02 J | 16.9 | 243 | <0.005 U | 0.007 J | 0.158 | 0.057 | 2.235 | 0.24 | 0.01 J | <0.0002 U | <0.002 U | 3.04 | 0.03 J | 0.095 |
| 3/7/2017 | Background | 0.02 J | 18.4 | 267 | <0.005 U | <0.004 U | 0.267 | 0.070 | 0.868 | 0.24 | 0.061 | 0.003 | 0.002 J | 3.20 | 0.06 J | <0.01 U |
| 5/8/2017 | Background | 0.04 J | 18.1 | 226 | <0.004 U | <0.005 U | 0.128 | 0.091 | 0.744 | 0.26 | 0.043 | 0.004 | <0.002 U | 2.90 | 0.04 J | <0.01 U |
| 7/18/2017 | Background | 0.02 J | 16.8 | 249 | <0.004 U | <0.005 U | 0.165 | 0.072 | 1.079 | 0.21 | 0.02 J | 0.002 | <0.002 U | 2.61 | <0.03 U | <0.01 U |
| 6/6/2018 | Assessment | 0.04 J | 22.1 | 266 | 0.004 J | <0.005 U | 0.057 | 0.117 | 0.942 | 0.28 | 0.034 | 0.007 | <0.002 U | 3.56 | <0.03 U | <0.01 U |
| 8/14/2018 | Assessment | 0.01 J | 16.6 | 237 | <0.004 U | <0.005 U | 0.04 J | 0.059 | 0.617 | 0.26 | 0.005 J | <0.0002 U | -- | 2.50 | <0.03 U | 0.01 J |
| 5/21/2019 | Assessment | <0.02 U | 18.3 | 235 | <0.02 U | <0.01 U | 0.04 J | 0.051 | 0.771 | 0.27 | 0.06 J | <0.009 U | <0.002 U | 2.52 | <0.03 U | <0.1 U |
| 6/26/2019 | Assessment | <0.02 U | 18.2 | 263 | <0.02 U | <0.01 U | 0.06 J | 0.067 | 1.164 | 0.28 | 0.04 J | <0.009 U | <0.002 U | 2.58 | <0.03 U | <0.1 U |
| 9/10/2019 | Assessment | <0.02 U | 18.0 | 257 | <0.02 U | <0.01 U | 0.09 J | 0.052 | 0.859 | 0.28 | <0.05 U | 0.00157 | <0.002 U | 2.70 | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

Table 1 - Groundwater Data Summary: MW-1604I
Rockport - BAP
Appendix III Constituents

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|-------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.111 | 76.5 | 50.4 | 0.34 | 7.1 | 530 | 138 |
| 7/18/2016 | Background | 0.185 | 79.7 | 53.6 | 0.33 | 7.4 | 548 | 152 |
| 9/19/2016 | Background | 0.320 | 73.1 | 46.5 | 0.29 | 7.5 | 504 | 120 |
| 11/15/2016 | Background | 0.368 | 78.7 | 46.2 | 0.32 | 7.3 | 521 | 130 |
| 1/9/2017 | Background | 0.241 | 72.4 | 39.5 | 0.31 | 7.5 | 456 | 99.8 |
| 3/7/2017 | Background | 0.252 | 68.7 | 41.6 | 0.31 | 7.4 | 448 | 104 |
| 5/9/2017 | Background | 0.363 | 81.3 | 53.4 | 0.34 | 7.5 | 546 | 139 |
| 7/18/2017 | Background | 0.379 | 73.5 | 49.3 | 0.27 | 7.3 | 522 | 139 |
| 10/3/2017 | Detection | 0.442 | 69.5 | 45.2 | 0.30 | 7.5 | 502 | 129 |
| 12/12/2017 | Detection | -- | -- | 45.6 | 0.32 | 7.5 | -- | 132 |
| 1/4/2018 | Detection | 0.385 | -- | -- | -- | 7.9 | 504 | 119 |
| 6/6/2018 | Assessment | 0.188 | 62.9 | 39.4 | 0.37 | 7.6 | 442 | 95.4 |
| 8/14/2018 | Assessment | 0.193 | 73.8 | 43.7 | 0.33 | 7.4 | 487 | 112 |
| 5/21/2019 | Assessment | 0.254 | 78.2 | 70.1 | 0.34 | 7.3 | 618 | 181 |
| 6/27/2019 | Assessment | 0.278 | 75.2 | 63.5 | 0.38 | 7.5 | 622 | 167 |
| 9/11/2019 | Assessment | 0.269 | 71.5 | 43.6 | 0.35 | 7.4 | 515 | 127 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1604I

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.02 J | 19.5 | 124 | <0.005 U | 0.12 | 0.1 | 0.893 | 1.118 | 0.34 | 0.02 J | 0.004 | <0.002 U | 2.59 | 0.03 J | 0.01 J |
| 7/18/2016 | Background | 0.02 J | 19.1 | 132 | <0.005 U | <0.004 U | 0.4 | 0.875 | 1.299 | 0.33 | 0.02 J | 0.011 | <0.002 U | 2.48 | <0.03 U | 0.01 J |
| 9/19/2016 | Background | 0.03 J | 20.4 | 123 | <0.005 U | <0.004 U | 0.4 | 0.742 | 0.624 | 0.29 | 0.02 J | 0.008 | <0.002 U | 2.87 | 0.07 J | 0.078 |
| 11/15/2016 | Background | 0.04 J | 19.4 | 123 | <0.005 U | 0.009 J | 0.153 | 0.704 | 1.664 | 0.32 | 0.045 | 0.015 | <0.002 U | 2.49 | <0.03 U | 0.02 J |
| 1/9/2017 | Background | 0.02 J | 20.2 | 114 | <0.005 U | <0.004 U | 0.114 | 0.696 | 1.455 | 0.31 | 0.01 J | 0.003 | <0.002 U | 2.84 | <0.03 U | 0.02 J |
| 3/7/2017 | Background | 0.02 J | 20.0 | 117 | <0.005 U | <0.004 U | 0.573 | 0.743 | 0.671 | 0.31 | 0.024 | 0.009 | <0.002 U | 3.08 | 0.05 J | 0.02 J |
| 5/9/2017 | Background | 0.06 | 26.4 | 125 | <0.004 U | <0.005 U | 0.112 | 1.03 | 0.844 | 0.34 | 0.043 | 0.013 | <0.002 U | 3.02 | 0.03 J | 0.02 J |
| 7/18/2017 | Background | 0.24 | 19.0 | 130 | <0.004 U | 0.005 J | 0.208 | 0.877 | 1.059 | 0.27 | 0.093 | 0.009 | <0.002 U | 2.75 | <0.03 U | 0.02 J |
| 6/6/2018 | Assessment | 0.03 J | 18.7 | 107 | 0.004 J | <0.005 U | 0.05 J | 0.792 | 1.089 | 0.37 | 0.01 J | 0.012 | <0.002 U | 3.00 | 0.03 J | 0.02 J |
| 8/14/2018 | Assessment | 0.03 J | 18.5 | 110 | <0.004 U | <0.005 U | 0.075 | 0.737 | 0.183 | 0.33 | 0.007 J | 0.004 | -- | 2.50 | <0.03 U | 0.052 |
| 5/21/2019 | Assessment | 0.02 J | 21.2 | 151 | <0.02 U | <0.01 U | 0.05 J | 1.03 | 1.458 | 0.34 | <0.02 U | 0.01 J | <0.002 U | 2.54 | 0.1 J | <0.1 U |
| 6/27/2019 | Assessment | 0.02 J | 18.5 | 135 | <0.02 U | <0.01 U | 0.09 J | 0.979 | 0.888 | 0.38 | <0.02 U | <0.009 U | <0.002 U | 2.51 | 0.1 J | <0.1 U |
| 9/11/2019 | Assessment | 0.03 J | 20.7 | 119 | <0.02 U | <0.01 U | 0.1 J | 0.735 | 0.819 | 0.35 | <0.05 U | 0.00772 | <0.002 U | 2.26 | 0.05 J | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1604S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|-------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.653 | 84.5 | 62.6 | 0.89 | 7.2 | 532 | 187 |
| 7/20/2016 | Background | 0.530 | 79.8 | 60.8 | 0.88 | 7.3 | 526 | 186 |
| 9/19/2016 | Background | 0.650 | 68.1 | 50.3 | 0.92 | 7.5 | 456 | 141 |
| 11/15/2016 | Background | 0.736 | 82.9 | 58.3 | 0.83 | -- | 533 | 165 |
| 1/9/2017 | Background | 0.721 | 83.9 | 63.5 | 0.91 | 7.4 | 535 | 173 |
| 3/7/2017 | Background | 0.725 | 79.1 | 64.1 | 0.94 | 7.5 | 528 | 170 |
| 5/8/2017 | Background | 0.554 | 111 | 88.0 | 0.81 | 7.5 | 672 | 251 |
| 5/18/2017 | Background | -- | -- | -- | -- | 7.3 | -- | -- |
| 7/17/2017 | Background | 0.473 | 98.6 | 76.0 | 0.76 | 7.3 | 657 | 234 |
| 10/3/2017 | Detection | 0.562 | 67.8 | 55.3 | 0.87 | 7.7 | 462 | 123 |
| 12/12/2017 | Detection | -- | -- | 53.9 | 0.97 | 7.7 | -- | 112 |
| 1/4/2018 | Detection | 0.778 | -- | 54.5 | 1.02 | 8.0 | -- | 104 |
| 6/6/2018 | Assessment | 0.521 | 72.5 | 53.7 | 1.04 | 7.7 | 474 | 134 |
| 8/14/2018 | Assessment | 0.582 | 92.6 | 73.0 | 0.90 | 7.4 | 583 | 187 |
| 5/20/2019 | Assessment | 0.451 | 80.4 | 57.2 | 0.99 | 7.5 | 572 | 179 |
| 6/26/2019 | Assessment | 0.667 | 75.8 | 81.4 | 0.91 | 7.5 | 718 | 246 |
| 9/10/2019 | Assessment | 0.802 | 53.1 | 57.6 | 1.63 | 7.5 | 506 | 134 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1604S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.06 | 0.41 | 19.2 | 0.007 J | 0.02 | 0.2 | 0.548 | 0.3437 | 0.89 | 0.315 | 0.011 | <0.002 U | 2.57 | 0.07 J | 0.02 J |
| 7/20/2016 | Background | 0.13 | 0.76 | 21.7 | 0.059 | 0.09 | 0.6 | 0.955 | 0.9695 | 0.88 | 0.911 | 0.006 | <0.002 U | 2.33 | 0.2 | 0.057 |
| 9/19/2016 | Background | 0.06 | 0.24 | 13.3 | <0.005 U | 0.01 J | 0.5 | 0.325 | 1.126 | 0.92 | 0.060 | 0.008 | <0.002 U | 2.51 | 0.07 J | 0.05 J |
| 11/15/2016 | Background | 0.07 | 0.24 | 18.5 | 0.005 J | 0.03 | 0.081 | 0.326 | 0.377 | 0.83 | 0.045 | 0.014 | <0.002 U | 4.79 | 0.05 J | 0.096 |
| 1/9/2017 | Background | 0.06 | 0.31 | 17.3 | <0.005 U | 0.02 J | 0.701 | 0.338 | 1.629 | 0.91 | 0.02 J | 0.013 | <0.002 U | 2.59 | 0.06 J | 0.04 J |
| 3/7/2017 | Background | 0.05 | 0.20 | 16.0 | <0.005 U | 0.01 J | 0.326 | 0.321 | 0.151 | 0.94 | 0.027 | 0.013 | <0.002 U | 2.61 | 0.07 J | 0.03 J |
| 5/8/2017 | Background | 0.07 | 0.30 | 18.8 | <0.004 U | 0.02 J | 0.079 | 0.355 | 0.579 | 0.81 | 0.050 | 0.018 | 0.004 J | 2.16 | 0.09 J | 0.02 J |
| 7/17/2017 | Background | 0.07 | 0.24 | 20.7 | <0.004 U | 0.02 J | 0.136 | 0.285 | 0.731 | 0.76 | 0.064 | 0.014 | <0.002 U | 1.88 | 0.03 J | 0.02 J |
| 6/6/2018 | Assessment | 0.06 | 0.20 | 14.1 | <0.004 U | 0.02 J | 0.056 | 0.407 | 1.058 | 1.04 | 0.040 | 0.014 | <0.002 U | 2.50 | 0.05 J | 0.02 J |
| 8/14/2018 | Assessment | 0.05 J | 0.20 | 16.3 | <0.004 U | 0.02 J | 0.088 | 0.365 | 0.444 | 0.90 | 0.009 J | 0.009 | -- | 2.21 | 0.2 | 0.03 J |
| 5/20/2019 | Assessment | 0.06 J | 0.18 | 18.8 | <0.02 U | 0.03 J | 0.219 | 0.352 | 0.677 | 0.99 | 0.03 J | <0.009 U | <0.002 U | 2.29 | 0.07 J | <0.1 U |
| 6/26/2019 | Assessment | 0.04 J | 0.47 | 46.1 | <0.02 U | 0.02 J | 0.1 J | 1.13 | 0.565 | 0.91 | 0.122 | 0.01 J | <0.002 U | 1 J | 0.2 | <0.1 U |
| 9/10/2019 | Assessment | 0.06 J | 0.26 | 12.0 | <0.02 U | 0.02 J | 0.202 | 0.207 | 0.115 | 1.63 | <0.05 U | 0.00913 | <0.002 U | 4.72 | 0.1 J | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1605D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|---------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.027 | 81.7 | 31.9 | 0.25 | 7.1 | 406 | 59.7 |
| 7/18/2016 | Background | 0.021 | 85.7 | 31.5 | 0.22 | 7.2 | 408 | 61.6 |
| 9/19/2016 | Background | 0.002 J | 84.2 | 29.8 | 0.19 | 7.1 | 370 | 54.1 |
| 11/16/2016 | Background | 0.021 | 93.9 | 28.8 | 0.21 | 7.1 | 400 | 56.2 |
| 1/10/2017 | Background | 0.014 | 89.9 | 27.4 | 0.21 | 7.3 | 794 | 55.1 |
| 1/11/2017 | Background | -- | -- | -- | -- | 7.2 | -- | -- |
| 3/7/2017 | Background | 0.045 | 88.5 | 29.4 | 0.19 | 7.2 | 386 | 58.4 |
| 5/9/2017 | Background | 0.021 | 90.1 | 29.2 | 0.19 | 6.9 | 400 | 58.5 |
| 7/18/2017 | Background | 0.025 | 84.6 | 28.6 | 0.17 | 9.5 | 416 | 59.1 |
| 10/3/2017 | Detection | 0.022 | 83.1 | 26.4 | 0.18 | 7.1 | 390 | 56.8 |
| 12/11/2017 | Detection | -- | -- | 25.8 | 0.19 | -- | -- | 56.4 |
| 6/6/2018 | Assessment | 0.030 | 81.5 | 24.2 | 0.16 | 7.3 | 388 | 49.2 |
| 8/15/2018 | Assessment | 0.024 | 88.6 | 23.8 | 0.23 | 7.1 | 379 | 48.7 |
| 5/24/2019 | Assessment | 0.02 J | 75.7 | 22.1 | 0.24 | 6.9 | 364 | 38.9 |
| 6/25/2019 | Assessment | <0.02 U | 82.1 | 22.1 | 0.21 | 7.3 | 379 | 40.3 |
| 9/12/2019 | Assessment | <0.02 U | 84 | 23.7 | 0.22 | 7.0 | 388 | 45.1 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1605D

**Rockport - BAP
Appendix IV Constituents**

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|----------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.02 J | 17.5 | 400 | <0.005 U | <0.004 U | 0.2 | 0.284 | 1.094 | 0.25 | 0.051 | 0.004 | <0.002 U | 7.65 | 0.03 J | <0.01 U |
| 7/18/2016 | Background | 0.01 J | 17.4 | 434 | <0.005 U | <0.004 U | 0.3 | 0.170 | 1.666 | 0.22 | 0.051 | 0.005 | <0.002 U | 3.19 | <0.03 U | <0.01 U |
| 9/19/2016 | Background | 0.01 J | 18.1 | 488 | <0.005 U | <0.004 U | 0.3 | 0.118 | 0.873 | 0.19 | 0.009 J | 0.006 | <0.002 U | 2.72 | <0.03 U | <0.01 U |
| 11/16/2016 | Background | 0.01 J | 18.6 | 453 | <0.005 U | <0.004 U | 0.259 | 0.097 | 1.371 | 0.21 | 0.008 J | 0.006 | <0.002 U | 2.21 | <0.03 U | 0.01 J |
| 1/10/2017 | Background | 0.01 J | 19.0 | 430 | <0.005 U | <0.004 U | 0.128 | 0.086 | 1.589 | 0.21 | <0.004 U | 0.004 | <0.002 U | 2.21 | <0.03 U | <0.01 U |
| 3/7/2017 | Background | 0.02 J | 19.1 | 490 | <0.005 U | 0.006 J | 0.322 | 0.107 | 1.104 | 0.19 | 0.045 | 0.006 | <0.002 U | 2.44 | 0.03 J | <0.01 U |
| 5/9/2017 | Background | 0.04 J | 18.3 | 420 | 0.01 J | <0.005 U | 0.131 | 0.108 | 0.4527 | 0.19 | 0.037 | 0.003 | <0.002 U | 2.08 | <0.03 U | <0.01 U |
| 7/18/2017 | Background | 0.02 J | 17.9 | 457 | <0.004 U | <0.005 U | 0.119 | 0.111 | 1.657 | 0.17 | 0.009 J | 0.005 | <0.002 U | 1.98 | <0.03 U | 0.03 J |
| 6/6/2018 | Assessment | 0.02 J | 18.2 | 382 | 0.01 J | <0.005 U | 0.272 | 0.188 | 1.978 | 0.16 | 0.273 | 0.007 | <0.002 U | 1.97 | 0.04 J | <0.01 U |
| 8/15/2018 | Assessment | 0.01 J | 20.3 | 443 | <0.004 U | <0.005 U | 0.077 | 0.079 | 0.605 | 0.23 | 0.035 | 0.003 | -- | 1.94 | <0.03 U | <0.01 U |
| 5/24/2019 | Assessment | 0.05 J | 13.9 | 385 | <0.02 U | <0.01 U | 0.06 J | 0.255 | 1.116 | 0.24 | <0.02 U | <0.009 U | <0.002 U | 2.60 | <0.03 U | <0.1 U |
| 6/25/2019 | Assessment | <0.02 U | 18.3 | 365 | <0.02 U | <0.01 U | 0.2 J | 0.104 | 0.655 | 0.21 | 0.05 J | <0.009 U | <0.002 U | 2 J | <0.03 U | <0.1 U |
| 9/12/2019 | Assessment | <0.02 U | 21.2 | 471 | <0.02 U | <0.01 U | 0.652 | 0.084 | 0.896 | 0.22 | <0.05 U | 0.00176 | <0.002 U | 2.08 | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1605I
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.027 | 89.5 | 45.6 | 0.21 | 7.0 | 522 | 130 |
| 7/19/2016 | Background | 0.027 | 92.5 | 46.8 | 0.22 | 7.3 | 544 | 135 |
| 9/19/2016 | Background | 0.020 | 97.9 | 45.6 | 0.18 | 7.3 | 548 | 140 |
| 11/16/2016 | Background | 0.034 | 103 | 44.4 | 0.19 | 7.1 | 567 | 140 |
| 1/10/2017 | Background | 0.020 | 91.3 | 43.5 | 0.19 | 7.2 | 534 | 119 |
| 3/7/2017 | Background | 0.046 | 81.9 | 44.7 | 0.17 | 7.3 | 474 | 115 |
| 5/9/2017 | Background | 0.043 | 93.5 | 41.8 | 0.19 | 7.0 | 508 | 115 |
| 7/18/2017 | Background | 0.036 | 79.9 | 39.7 | 0.1 J | 7.0 | 488 | 116 |
| 10/3/2017 | Detection | 0.041 | 82.5 | 40.7 | 0.19 | 7.2 | 494 | 120 |
| 12/11/2017 | Detection | -- | -- | 41.3 | 0.18 | 7.3 | -- | 135 |
| 1/4/2018 | Detection | -- | -- | -- | -- | 7.6 | 536 | 144 |
| 6/6/2018 | Assessment | 0.129 | 79.2 | 39.1 | 0.16 | 7.3 | 500 | 120 |
| 8/15/2018 | Assessment | 0.158 | 83.4 | 38.0 | 0.23 | 7.3 | 483 | 114 |
| 5/24/2019 | Assessment | 0.08 J | 73.8 | 36.8 | 0.23 | 7.3 | 443 | 89.2 |
| 6/25/2019 | Assessment | 0.126 | 83.4 | 38.3 | 0.21 | 7.4 | 471 | 104 |
| 9/12/2019 | Assessment | 0.199 | 89.4 | 41.7 | 0.20 | 7.4 | 524 | 128 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-16051

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|--------|---------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.02 J | 17.3 | 151 | <0.005 U | <0.004 U | 0.2 | 1.67 | 1.219 | 0.21 | 0.122 | 0.004 | <0.002 U | 1.42 | 0.03 J | 0.02 J |
| 7/19/2016 | Background | 0.03 J | 20.1 | 178 | <0.005 U | <0.004 U | 1.2 | 1.79 | 2.288 | 0.22 | 0.032 | 0.005 | <0.002 U | 1.39 | 0.07 J | 0.02 J |
| 9/19/2016 | Background | 0.04 J | 19.5 | 180 | <0.005 U | 0.005 J | 0.2 | 1.66 | 2.171 | 0.18 | 0.160 | 0.008 | <0.002 U | 1.23 | <0.03 U | 0.03 J |
| 11/16/2016 | Background | 0.04 J | 18.0 | 168 | <0.005 U | 0.008 J | 0.091 | 1.58 | 1.912 | 0.19 | 0.079 | 0.017 | <0.002 U | 1.07 | <0.03 U | 0.03 J |
| 1/10/2017 | Background | 0.03 J | 18.5 | 161 | <0.005 U | <0.004 U | 0.110 | 1.52 | 1.823 | 0.19 | 0.02 J | 0.004 | <0.002 U | 1.43 | 0.04 J | 0.183 |
| 3/7/2017 | Background | 0.03 J | 18.6 | 156 | <0.005 U | 0.008 J | 0.214 | 1.48 | 1.721 | 0.17 | 0.063 | 0.007 | <0.002 U | 1.33 | 0.04 J | 0.03 J |
| 5/9/2017 | Background | 0.05 | 20.1 | 148 | <0.004 U | <0.005 U | 0.137 | 1.56 | 1.139 | 0.19 | 0.037 | 0.010 | <0.002 U | 1.18 | <0.03 U | 0.03 J |
| 7/18/2017 | Background | 0.05 J | 26.2 | 153 | <0.004 U | <0.005 U | 0.104 | 1.49 | 2.173 | 0.1 J | 0.137 | 0.010 | <0.002 U | 1.16 | <0.03 U | 0.03 J |
| 6/6/2018 | Assessment | 0.03 J | 17.0 | 135 | 0.004 J | <0.005 U | 0.04 J | 1.47 | 2.27 | 0.16 | 0.184 | 0.011 | <0.002 U | 1.06 | <0.03 U | 0.04 J |
| 8/15/2018 | Assessment | 0.03 J | 18.8 | 149 | 0.004 J | <0.005 U | 0.116 | 1.45 | 1.167 | 0.23 | 0.095 | 0.005 | -- | 1.12 | <0.03 U | 0.04 J |
| 5/24/2019 | Assessment | 0.04 J | 25.3 | 157 | <0.02 U | <0.01 U | 0.07 J | 1.12 | 1.054 | 0.23 | 0.04 J | 0.01 J | <0.002 U | 1 J | 0.04 J | <0.1 U |
| 6/25/2019 | Assessment | <0.10 U | 17.8 | 134 | <0.1 U | <0.05 U | <0.2 U | 1.29 | 2.118 | 0.21 | <0.1 U | 0.01 J | <0.002 U | <2 U | <0.2 U | <0.5 U |
| 9/12/2019 | Assessment | 0.05 J | 22.3 | 154 | <0.02 U | <0.01 U | 0.1 J | 1.42 | 1.679 | 0.20 | 0.1 J | 0.00628 | <0.002 U | 1 J | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1605S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|-------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.480 | 76.6 | 51.0 | 0.55 | 7.1 | 576 | 167 |
| 7/19/2016 | Background | 0.438 | 72.6 | 53.1 | 0.55 | 7.2 | 586 | 174 |
| 9/19/2016 | Background | 0.482 | 79.1 | 54.0 | 0.51 | 7.3 | 594 | 179 |
| 11/16/2016 | Background | 0.584 | 84.0 | 49.7 | 0.53 | 7.1 | 599 | 186 |
| 1/10/2017 | Background | 0.533 | 78.5 | 48.2 | 0.43 | 7.2 | 584 | 170 |
| 3/7/2017 | Background | 0.608 | 71.2 | 52.0 | 0.55 | 7.2 | 564 | 180 |
| 5/9/2017 | Background | 0.470 | 79.9 | 50.1 | 0.50 | 7.2 | 606 | 181 |
| 7/17/2017 | Background | 0.490 | 68.6 | 47.5 | 0.43 | 7.1 | 582 | 177 |
| 10/3/2017 | Detection | 0.539 | 71.6 | 44.1 | 0.46 | 7.1 | 578 | 175 |
| 12/11/2017 | Detection | -- | -- | 42.5 | 0.53 | 7.2 | -- | 164 |
| 1/4/2018 | Detection | 0.616 | -- | -- | 0.48 | 7.7 | 614 | 168 |
| 6/5/2018 | Assessment | 0.461 | 71.0 | 46.5 | 0.58 | 7.6 | 592 | 154 |
| 8/15/2018 | Assessment | 0.029 | 45.8 | 46.5 | 0.59 | 7.1 | 573 | 153 |
| 5/24/2019 | Assessment | 0.415 | 76.0 | 46.1 | 0.61 | 7.3 | 586 | 147 |
| 6/27/2019 | Assessment | 0.438 | 72.0 | 46.3 | 0.63 | 7.2 | 595 | 150 |
| 9/12/2019 | Assessment | 0.431 | 77.0 | 49.4 | 0.54 | 7.0 | 593 | 162 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1605S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|--------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.04 J | 0.52 | 8.07 | <0.005 U | 0.03 | 0.2 | 0.471 | 0.2307 | 0.55 | 0.116 | 0.130 | <0.002 U | 2.52 | 1.3 | 0.02 J |
| 7/19/2016 | Background | 0.10 | 0.60 | 8.65 | <0.005 U | 0.04 | 0.4 | 0.856 | 0.39 | 0.55 | 0.223 | 0.017 | <0.002 U | 2.20 | 1.0 | 0.02 J |
| 9/19/2016 | Background | 0.04 J | 0.42 | 7.61 | <0.005 U | 0.03 | 0.9 | 0.443 | 0.15 | 0.51 | 0.049 | 0.015 | <0.002 U | 1.83 | 1.0 | 0.03 J |
| 11/16/2016 | Background | 0.05 | 0.36 | 7.76 | <0.005 U | 0.04 | 0.108 | 0.355 | 0.964 | 0.53 | 0.021 | 0.021 | <0.002 U | 1.79 | 1.1 | 0.03 J |
| 1/10/2017 | Background | 0.06 | 0.50 | 8.33 | <0.005 U | 0.04 | 0.135 | 0.401 | 1.6248 | 0.43 | 0.02 J | 0.016 | <0.002 U | 2.01 | 1.1 | 0.06 |
| 3/7/2017 | Background | 0.04 J | 0.39 | 8.72 | <0.005 U | 0.03 | 0.279 | 0.307 | 0.339 | 0.55 | 0.033 | 0.015 | <0.002 U | 1.85 | 0.5 | 0.03 J |
| 5/9/2017 | Background | 0.05 | 0.45 | 8.41 | <0.004 U | 0.03 | 0.247 | 0.370 | 0.255 | 0.05 | 0.02 J | 0.013 | <0.002 U | 1.81 | 0.9 | 0.02 J |
| 7/17/2017 | Background | 0.04 J | 0.42 | 8.55 | <0.004 U | 0.03 | 0.113 | 0.336 | 1.254 | 0.43 | 0.026 | 0.015 | <0.002 U | 1.73 | 1.2 | 0.03 J |
| 6/5/2018 | Assessment | 0.04 J | 0.42 | 8.63 | 0.004 J | 0.03 | 0.093 | 0.321 | 0.705 | 0.58 | 0.042 | 0.016 | <0.002 U | 1.75 | 0.6 | 0.05 J |
| 8/15/2018 | Assessment | 0.04 J | 0.20 | 10.9 | <0.004 U | 0.03 | 0.078 | 0.087 | 0.1783 | 0.59 | 0.041 | 0.007 | -- | 1.13 | 5.4 | 0.02 J |
| 5/24/2019 | Assessment | 0.15 | 2.84 | 15.4 | 0.04 J | 0.11 | 0.636 | 3.91 | 0.2689 | 0.61 | 1.96 | 0.02 J | <0.002 U | 2 J | 0.3 | <0.1 U |
| 6/27/2019 | Assessment | 0.11 | 2.44 | 12.5 | 0.04 J | 0.07 | 0.536 | 2.46 | 0.245 | 0.63 | 1.52 | <0.009 U | <0.002 U | 2 J | 0.5 | 0.1 J |
| 9/12/2019 | Assessment | 0.04 J | 0.61 | 6.72 | <0.02 U | 0.04 J | 0.09 J | 0.469 | 0.00129 | 0.54 | 0.1 J | 0.0108 | <0.002 U | 2.07 | 2.0 | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1606D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|---------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.020 | 67.5 | 21.3 | 0.23 | 7.1 | 290 | 13.9 |
| 7/19/2016 | Background | 0.018 | 69.9 | 20.8 | 0.20 | 5.9 | 298 | 12.8 |
| 9/19/2016 | Background | 0.020 | 72.3 | 21.7 | 0.19 | 7.3 | 290 | 13.2 |
| 11/16/2016 | Background | 0.017 | 77.1 | 22.0 | 0.19 | 7.2 | 301 | 16.4 |
| 1/10/2017 | Background | 0.012 | 75.5 | 21.6 | 0.16 | 7.2 | 284 | 12.8 |
| 3/6/2017 | Background | 0.073 | 69.9 | 22.3 | 0.18 | 7.2 | 325 | 8.7 |
| 5/9/2017 | Background | 0.034 | 78.1 | 22.3 | 0.17 | 6.9 | 308 | 14.4 |
| 7/18/2017 | Background | 0.028 | 69.3 | 21.6 | 0.15 | 8.4 | 307 | 13.5 |
| 10/3/2017 | Detection | 0.022 | 74.4 | 22.3 | 0.16 | 7.0 | 308 | 17.1 |
| 12/11/2017 | Detection | -- | -- | 22.6 | 0.17 | 7.1 | -- | 19.4 |
| 6/6/2018 | Assessment | 0.044 | 72.0 | 23.1 | 0.19 | 8.0 | 331 | 19.9 |
| 8/15/2018 | Assessment | 0.028 | 80.5 | 23.9 | 0.20 | 7.3 | 329 | 21.5 |
| 5/24/2019 | Assessment | 0.02 J | 75.7 | 25.0 | 0.20 | 7.2 | 330 | 19.6 |
| 6/24/2019 | Assessment | 0.02 J | 80.8 | 25.2 | 0.19 | 7.3 | 329 | 21.0 |
| 9/12/2019 | Assessment | <0.02 U | 76.7 | 26.9 | 0.18 | 7.3 | 361 | 25.6 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1606D

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|----------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.03 J | 11.5 | 327 | 0.01 J | <0.004 U | 0.5 | 0.508 | 0.551 | 0.23 | 0.214 | 0.003 | <0.002 U | 3.82 | 0.06 J | <0.01 U |
| 7/19/2016 | Background | 0.02 J | 13.7 | 372 | <0.005 U | <0.004 U | 0.3 | 0.178 | 0.464 | 0.20 | 0.086 | 0.009 | <0.002 U | 2.10 | 0.05 J | <0.01 U |
| 9/19/2016 | Background | 0.01 J | 13.4 | 378 | <0.005 U | <0.004 U | 0.1 | 0.113 | 1.152 | 0.19 | <0.004 U | 0.002 | <0.002 U | 2.00 | <0.03 U | <0.01 U |
| 11/16/2016 | Background | 0.01 J | 14.4 | 419 | <0.005 U | <0.004 U | 0.138 | 0.102 | 0.333 | 0.19 | <0.004 U | 0.002 | <0.002 U | 2.21 | <0.03 U | <0.01 U |
| 1/10/2017 | Background | 0.03 J | 13.9 | 383 | 0.034 | 0.02 J | 0.160 | 0.109 | 1.612 | 0.16 | 0.023 | <0.0002 U | <0.002 U | 2.46 | 0.04 J | 0.124 |
| 3/6/2017 | Background | 0.01 J | 13.5 | 374 | <0.005 U | <0.004 U | 0.667 | 0.098 | 0.924 | 0.18 | 0.02 J | 0.007 | <0.002 U | 2.00 | <0.03 U | <0.01 U |
| 5/9/2017 | Background | 0.01 J | 14.3 | 370 | <0.004 U | <0.005 U | 0.153 | 0.086 | 2.3 | 0.17 | 0.004 J | 0.004 | <0.002 U | 2.07 | <0.03 U | <0.01 U |
| 7/18/2017 | Background | 0.02 J | 14.8 | 401 | <0.004 U | <0.005 U | 0.131 | 0.084 | 1.584 | 0.15 | 0.01 J | 0.006 | <0.002 U | 1.85 | <0.03 U | <0.01 U |
| 6/6/2018 | Assessment | <0.01 U | 14.7 | 392 | 0.004 J | <0.005 U | 0.04 J | 0.070 | 1.5971 | 0.19 | 0.008 J | 0.005 | <0.002 U | 1.77 | <0.03 U | 0.03 J |
| 8/15/2018 | Assessment | 0.04 J | 16.9 | 431 | 0.006 J | 0.007 J | 0.148 | 0.117 | 0.56 | 0.20 | 0.141 | 0.002 | -- | 1.77 | <0.03 U | 0.02 J |
| 5/24/2019 | Assessment | <0.02 U | 17.4 | 447 | <0.02 U | <0.01 U | 0.1 J | 0.066 | 0.946 | 0.20 | <0.02 U | <0.009 U | <0.002 U | 2 J | <0.03 U | <0.1 U |
| 6/24/2019 | Assessment | <0.02 U | 17.5 | 431 | <0.02 U | <0.01 U | 0.1 J | 0.068 | 0.809 | 0.19 | 0.02 J | <0.009 U | <0.002 U | 2 J | <0.03 U | <0.1 U |
| 9/12/2019 | Assessment | <0.02 U | 17.4 | 458 | <0.02 U | <0.01 U | 0.09 J | 0.085 | 0.593 | 0.18 | <0.05 U | 0.000651 | <0.002 U | 2 J | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1606I
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|----------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.011 | 66.6 | 23.9 | 0.22 | 7.0 | 300 | 42.3 |
| 7/19/2016 | Background | 0.013 | 62.0 | 25.1 | 0.21 | 5.0 | 350 | 42.9 |
| 9/19/2016 | Background | <0.002 U | 62.8 | 24.2 | 0.19 | 7.2 | 314 | 36.7 |
| 11/16/2016 | Background | 0.014 | 70.7 | 25.0 | 0.21 | 7.3 | 325 | 42.6 |
| 1/10/2017 | Background | 0.007 | 68.0 | 24.5 | 0.17 | 7.4 | 326 | 39.3 |
| 3/6/2017 | Background | 0.025 | 64.1 | 23.8 | 0.19 | 7.4 | 317 | 37.8 |
| 5/9/2017 | Background | 0.070 | 67.8 | 23.0 | 0.19 | 7.4 | 318 | 36.8 |
| 7/18/2017 | Background | 0.023 | 55.5 | 22.6 | 0.17 | 6.7 | 304 | 37.1 |
| 10/3/2017 | Detection | 0.021 | 57.8 | 23.0 | 0.18 | 7.1 | 304 | 38.4 |
| 12/11/2017 | Detection | -- | -- | 23.0 | 0.19 | 7.1 | -- | 37.9 |
| 6/6/2018 | Assessment | 0.053 | 78.2 | 31.5 | 0.20 | 8.1 | 392 | 52.4 |
| 8/15/2018 | Assessment | 0.031 | 86.3 | 25.4 | 0.21 | 7.3 | 387 | 50.3 |
| 5/21/2019 | Assessment | 0.02 J | 79.5 | 29.8 | 0.16 | 8.6 | 407 | 55.5 |
| 6/25/2019 | Assessment | <0.02 U | 86.8 | 31.5 | 0.18 | 7.2 | 406 | 51.0 |
| 9/12/2019 | Assessment | <0.02 U | 72.8 | 20.1 | 0.18 | 7.4 | 367 | 47.9 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-16061

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|----------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.03 J | 3.00 | 49.4 | <0.005 U | 0.004 J | 0.2 | 0.929 | 1.347 | 0.22 | 0.166 | 0.004 | <0.002 U | 1.64 | 0.05 J | 0.03 J |
| 7/19/2016 | Background | 0.03 J | 3.99 | 54.0 | <0.005 U | <0.004 U | 0.4 | 0.823 | 1.286 | 0.21 | 0.037 | 0.013 | <0.002 U | 1.57 | <0.03 U | 0.03 J |
| 9/19/2016 | Background | 0.02 J | 4.99 | 46.7 | <0.005 U | <0.004 U | 0.1 | 0.733 | 1.104 | 0.19 | 0.02 J | 0.009 | <0.002 U | 1.50 | <0.03 U | 0.03 J |
| 11/16/2016 | Background | 0.02 J | 4.59 | 48.1 | <0.005 U | <0.004 U | 0.070 | 0.700 | 0.951 | 0.21 | <0.004 U | 0.008 | <0.002 U | 1.83 | <0.03 U | 0.04 J |
| 1/10/2017 | Background | 0.02 J | 5.11 | 53.6 | 0.007 J | 0.01 J | 0.138 | 0.921 | 4.283 | 0.17 | 0.022 | 0.005 | <0.002 U | 2.12 | <0.03 U | 0.05 J |
| 3/6/2017 | Background | 0.02 J | 5.07 | 54.7 | <0.005 U | <0.004 U | 0.524 | 0.95 | 0.934 | 0.19 | 0.032 | 0.007 | <0.002 U | 1.78 | 0.03 J | 0.04 J |
| 5/9/2017 | Background | 0.05 | 4.81 | 49.9 | <0.004 U | <0.005 U | 0.179 | 1.26 | 0.677 | 0.19 | 0.071 | 0.008 | <0.002 U | 1.27 | 0.06 J | 0.04 J |
| 7/18/2017 | Background | 0.02 J | 4.72 | 51.1 | <0.004 U | <0.005 U | 0.097 | 1.06 | 0.813 | 0.17 | 0.043 | 0.008 | <0.002 U | 1.11 | <0.03 U | 0.04 J |
| 6/6/2018 | Assessment | 0.03 J | 5.69 | 67.3 | <0.004 U | <0.005 U | 0.083 | 1.49 | 1.252 | 0.20 | 0.026 | 0.007 | <0.002 U | 0.98 | <0.03 U | 0.05 J |
| 8/15/2018 | Assessment | 0.03 J | 9.11 | 85.2 | <0.004 U | 0.005 J | 0.061 | 1.95 | 0.3912 | 0.21 | 0.034 | 0.006 | -- | 1.34 | <0.03 U | 0.083 |
| 5/21/2019 | Assessment | <0.02 U | 7.69 | 74.5 | <0.02 U | <0.01 U | <0.04 U | 1.56 | 0.562 | 0.16 | <0.02 U | <0.009 U | <0.002 U | 0.8 J | <0.03 U | <0.1 U |
| 6/25/2019 | Assessment | <0.10 U | 7.96 | 78.1 | <0.1 U | <0.05 U | <0.2 U | 1.80 | 1.214 | 0.18 | <0.1 U | 0.01 J | <0.002 U | <2 U | <0.2 U | <0.5 U |
| 9/12/2019 | Assessment | 0.02 J | 11.2 | 76.7 | <0.02 U | <0.01 U | 0.1 J | 1.58 | 0.947 | 0.18 | <0.05 U | 0.00405 | <0.002 U | 1 J | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1606S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|----------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 6/7/2016 | Background | 0.024 | 55.8 | 30.6 | 0.46 | 6.9 | 410 | 47.6 |
| 7/19/2016 | Background | 0.019 | 46.0 | 24.0 | 0.43 | 7.1 | 386 | 38.1 |
| 9/19/2016 | Background | <0.002 U | 44.4 | 18.7 | 0.40 | 7.1 | 316 | 31.8 |
| 11/16/2016 | Background | 0.020 | 54.1 | 26.6 | 0.40 | 6.9 | 358 | 40.0 |
| 1/10/2017 | Background | 0.014 | 48.5 | 22.1 | 0.31 | 6.7 | 351 | 30.5 |
| 3/7/2017 | Background | 0.054 | 47.2 | 23.9 | 0.41 | 7.1 | 331 | 33.2 |
| 5/9/2017 | Background | 0.020 | 52.7 | 24.7 | 0.38 | 7.0 | 377 | 37.5 |
| 7/18/2017 | Background | 0.090 | 44.7 | 22.8 | 0.37 | 6.9 | 367 | 36.8 |
| 10/3/2017 | Detection | 0.026 | 43.4 | 24.1 | 0.41 | 6.6 | 363 | 35.6 |
| 12/11/2017 | Detection | -- | -- | 24.0 | 0.41 | 6.6 | -- | 36.8 |
| 1/4/2018 | Detection | -- | -- | -- | 0.42 | 7.4 | -- | -- |
| 6/6/2018 | Assessment | 0.029 | 50.9 | 25.5 | 0.46 | 7.8 | 398 | 52.6 |
| 8/15/2018 | Assessment | 0.563 | 76.1 | 20.7 | 0.47 | 6.9 | 316 | 34.9 |
| 5/21/2019 | Assessment | 0.05 J | 48.9 | 26.6 | 0.47 | 7.9 | 416 | 64.5 |
| 6/25/2019 | Assessment | 0.03 J | 49.8 | 25.0 | 0.45 | 7.0 | 380 | 41.7 |
| 9/12/2019 | Assessment | 0.02 J | 44.4 | 24.4 | 0.54 | 7.0 | 376 | 41.9 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

Table 1 - Groundwater Data Summary: MW-1606S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 6/7/2016 | Background | 0.08 | 0.26 | 12.5 | <0.005 U | 0.02 | 0.1 | 0.09 | 0.7867 | 0.46 | 0.145 | 0.012 | <0.002 U | 1.91 | 3.3 | 0.02 J |
| 7/19/2016 | Background | 0.06 | 0.23 | 11.5 | <0.005 U | 0.02 J | 0.5 | 0.052 | 0.94 | 0.43 | 0.034 | 0.017 | <0.002 U | 1.56 | 4.0 | <0.01 U |
| 9/19/2016 | Background | 0.05 J | 0.22 | 9.34 | <0.005 U | 0.01 J | 0.2 | 0.038 | 0.75 | 0.40 | 0.020 | 0.010 | <0.002 U | 1.32 | 5.7 | 0.01 J |
| 11/16/2016 | Background | 0.05 J | 0.20 | 11.1 | <0.005 U | 0.02 J | 0.148 | 0.038 | 0.574 | 0.40 | 0.004 J | 0.013 | <0.002 U | 1.02 | 3.1 | 0.01 J |
| 1/10/2017 | Background | 0.04 J | 0.24 | 10.7 | 0.01 J | 0.02 J | 1.29 | 0.141 | 2.025 | 0.31 | 0.097 | 0.006 | <0.002 U | 1.11 | 4.2 | 0.02 J |
| 3/7/2017 | Background | 0.07 | 0.60 | 16.7 | 0.024 | 0.06 | 1.25 | 0.883 | 1.822 | 0.41 | 1.33 | 0.011 | <0.002 U | 1.22 | 4.5 | 0.03 J |
| 5/9/2017 | Background | 0.05 J | 0.29 | 12.0 | 0.01 J | 0.03 | 0.277 | 0.371 | 0.193 | 0.38 | 0.355 | 0.010 | <0.002 U | 0.90 | 6.0 | 0.02 J |
| 7/18/2017 | Background | 0.05 | 0.32 | 12.6 | 0.01 J | 0.03 | 0.259 | 0.363 | 0.268 | 0.37 | 0.386 | 0.010 | <0.002 U | 1.08 | 4.7 | 0.02 J |
| 6/6/2018 | Assessment | 0.05 J | 0.20 | 13.6 | 0.005 J | 0.03 | 0.108 | 0.092 | 0.496 | 0.46 | 0.032 | 0.012 | <0.002 U | 1.19 | 2.7 | 0.03 J |
| 8/15/2018 | Assessment | 0.04 J | 0.44 | 8.22 | 0.004 J | 0.04 | 0.251 | 0.338 | 1.146 | 0.47 | 0.028 | 0.013 | -- | 1.89 | 1.6 | 0.078 |
| 5/21/2019 | Assessment | 0.14 | 0.19 | 16.7 | <0.02 U | 0.05 J | 0.1 J | 0.094 | 0.668 | 0.47 | <0.02 U | <0.009 U | <0.002 U | 0.9 J | 3.3 | <0.1 U |
| 6/25/2019 | Assessment | <0.10 U | 0.2 J | 14.4 | <0.1 U | 0.06 J | <0.2 U | <0.1 U | 0.0646 | 0.45 | <0.1 U | 0.01 J | <0.002 U | <2 U | 2.9 | <0.5 U |
| 9/12/2019 | Assessment | 0.03 J | 0.17 | 11.8 | <0.02 U | 0.03 J | 0.08 J | 0.051 | 0.1052 | 0.54 | <0.05 U | 0.00814 | <0.002 U | 1 J | 2.8 | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1701D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 12/12/2017 | Detection | 0.054 | 71.8 | 20.1 | 0.28 | 7.3 | 378 | 44.0 |
| 2/8/2018 | Detection | 0.066 | 70.8 | 19.9 | 0.30 | 7.5 | 402 | 45.3 |
| 6/5/2018 | Assessment | 0.041 | 68.1 | 13.7 | 0.34 | 7.3 | 700 | 36.8 |
| 8/14/2018 | Assessment | 0.060 | 77.0 | 14.1 | 0.36 | 7.2 | 369 | 39.8 |
| 9/24/2018 | Detection | 0.047 | 71.6 | 15.2 | 0.33 | 7.5 | 366 | 40.0 |
| 10/29/2018 | Assessment | 0.125 | 76.5 | 15.4 | 0.32 | 7.8 | 362 | 40.7 |
| 11/12/2018 | Assessment | 0.114 | 76.7 | 15.7 | 0.35 | 7.1 | 358 | 40.0 |
| 5/20/2019 | Assessment | 0.02 J | 66.8 | 14.0 | 0.32 | 7.2 | 371 | 43.5 |
| 6/25/2019 | Assessment | 0.02 J | 70.8 | 14.9 | 0.32 | 7.1 | 387 | 39.0 |
| 9/9/2019 | Assessment | 0.02 J | 70.5 | 16.0 | 0.31 | 7.0 | 376 | 36.6 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

- -: Not analyzed

Table 1 - Groundwater Data Summary: MW-1701D

**Rockport - BAP
Appendix IV Constituents**

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|----------|----------|--------|-----------------|----------|---------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 12/12/2017 | Detection | 0.06 | 10.2 | 72.9 | 0.043 | 0.08 | 1.58 | 3.34 | 1.163 | 0.28 | 1.54 | 0.012 | 0.002 | 2.13 | 0.3 | 0.051 |
| 2/8/2018 | Detection | 0.03 J | 9.30 | 65.0 | <0.004 U | 0.009 J | 0.104 | 1.75 | 1.33 | 0.30 | 0.065 | 0.010 | <0.002 U | 1.37 | 0.04 J | 0.03 J |
| 6/5/2018 | Assessment | 0.02 J | 10.6 | 63.7 | 0.005 J | 0.02 J | 0.103 | 1.56 | 2.346 | 0.34 | 0.096 | 0.012 | <0.002 U | 1.38 | <0.03 U | 0.03 J |
| 8/14/2018 | Assessment | 0.01 J | 10.2 | 65.2 | <0.004 U | <0.005 U | 0.060 | 1.68 | 0.929 | 0.36 | 0.021 | 0.008 | -- | 1.38 | <0.03 U | 0.03 J |
| 9/24/2018 | Detection | <0.01 U | 10.1 | 64.0 | <0.004 U | 0.005 J | 0.076 | 1.71 | 0.564 | 0.33 | 0.074 | <0.0002 U | -- | 1.33 | <0.03 U | 0.02 J |
| 10/29/2018 | Assessment | <0.02 U | 9.79 | 65.9 | <0.02 U | <0.01 U | 0.1 J | 1.66 | 0.417 | 0.32 | 0.04 J | <0.009 U | -- | 1 J | <0.03 U | <0.1 U |
| 11/12/2018 | Assessment | <0.02 U | 9.10 | 62.2 | <0.02 U | <0.01 U | 0.1 J | 1.60 | 0.972 | 0.35 | 0.04 J | <0.009 U | -- | 1 J | <0.03 U | <0.1 U |
| 5/20/2019 | Assessment | <0.02 U | 9.55 | 65.1 | <0.02 U | <0.01 U | 0.2 J | 1.59 | 0.702 | 0.32 | <0.02 U | <0.009 U | <0.002 U | 1 J | <0.03 U | <0.1 U |
| 6/25/2019 | Assessment | <0.10 U | 9.58 | 64.6 | <0.1 U | <0.05 U | <0.2 U | 1.62 | 2.63 | 0.32 | <0.1 U | 0.01 J | <0.002 U | <2 U | 0.2 J | <0.5 U |
| 9/9/2019 | Assessment | <0.02 U | 9.37 | 65.0 | <0.02 U | <0.01 U | 0.2 J | 1.53 | 0.341 | 0.31 | <0.05 U | 0.00691 | <0.002 U | 1 J | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-17011
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|---------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 12/12/2017 | Detection | 0.066 | 65.4 | 13.5 | 0.33 | 7.3 | 338 | 40.7 |
| 2/8/2018 | Detection | 0.095 | 63.7 | 14.5 | 0.38 | 7.7 | 363 | 43.1 |
| 6/5/2018 | Assessment | 0.044 | 65.5 | 14.1 | 0.44 | 7.4 | 328 | 36.5 |
| 8/14/2018 | Assessment | 0.052 | 67.9 | 14.5 | 0.39 | 7.2 | 352 | 34.8 |
| 9/24/2018 | Detection | 0.038 | 68.9 | 14.9 | 0.41 | 7.6 | 346 | 35.0 |
| 10/31/2018 | Detection | 0.104 | 62.4 | 14.8 | 0.40 | 7.9 | 338 | 34.8 |
| 11/12/2018 | Assessment | 0.166 | 71.7 | 14.5 | 0.42 | 7.3 | 322 | 35.0 |
| 5/20/2019 | Assessment | 0.02 J | 59.6 | 12.8 | 0.40 | 7.3 | 345 | 39.8 |
| 6/25/2019 | Assessment | 0.02 J | 69.4 | 12.8 | 0.41 | 7.7 | 388 | 36.3 |
| 9/9/2019 | Assessment | <0.02 U | 65.1 | 12.9 | 0.38 | 7.3 | 339 | 34.5 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

- -: Not analyzed

Table 1 - Groundwater Data Summary: MW-17011

**Rockport - BAP
Appendix IV Constituents**

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|--------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 12/12/2017 | Detection | 0.05 | 8.86 | 50.9 | 0.01 | 0.01 | 0.505 | 2.14 | 2.192 | 0.33 | 0.505 | 0.011 | 0.002 | 2.96 | 0.07 | -- |
| 2/8/2018 | Detection | 0.07 | 9.17 | 46.8 | <0.004 U | 0.01 J | 0.184 | 1.34 | 1.06 | 0.38 | 0.260 | 0.007 | <0.002 U | 2.52 | 0.07 J | 0.03 J |
| 6/5/2018 | Assessment | 0.05 | 8.07 | 42.7 | 0.021 | 0.02 J | 0.446 | 1.87 | 0.658 | 0.44 | 0.564 | 0.010 | <0.002 U | 1.15 | 0.2 | 0.05 J |
| 8/14/2018 | Assessment | 0.04 J | 6.42 | 38.3 | 0.004 J | 0.01 J | 0.085 | 1.10 | 0.3144 | 0.39 | 0.108 | 0.002 | -- | 1.01 | <0.03 U | 0.02 J |
| 9/24/2018 | Detection | 0.23 | 9.38 | 41.2 | 0.008 J | 0.02 J | 0.371 | 1.62 | 0.335 | 0.41 | 0.497 | 0.002 | -- | 1.67 | 0.1 | 0.01 J |
| 10/31/2018 | Detection | 0.25 | 6.69 | 40.7 | <0.02 U | 0.03 J | 0.337 | 1.12 | 0.304 | 0.40 | 0.403 | 0.02 J | -- | 1 J | 0.07 J | <0.1 U |
| 11/12/2018 | Assessment | 0.10 | 6.77 | 40.3 | <0.02 U | <0.01 U | 0.2 J | 1.19 | 0.579 | 0.42 | 0.09 J | <0.009 U | -- | 1 J | <0.03 U | <0.1 U |
| 5/20/2019 | Assessment | 0.14 | 12.8 | 41.5 | <0.02 U | 0.02 J | 0.09 J | 1.16 | 0.628 | 0.40 | 0.09 J | <0.009 U | <0.002 U | 1 J | <0.03 U | <0.1 U |
| 6/25/2019 | Assessment | <0.10 U | 9.47 | 41.9 | <0.1 U | <0.05 U | <0.2 U | 1.16 | 0.116 | 0.41 | <0.1 U | 0.01 J | <0.002 U | <2 U | <0.2 U | <0.5 U |
| 9/9/2019 | Assessment | 0.21 | 7.92 | 40.6 | <0.02 U | <0.01 U | 0.08 J | 0.843 | 0.781 | 0.38 | 0.08 J | 0.00561 | <0.002 U | 1 J | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1701S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|---------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 12/12/2017 | Detection | 0.051 | 58.1 | 18.6 | 0.35 | 7.5 | 288 | 21.1 |
| 2/8/2018 | Detection | 0.025 | 56.6 | 19.0 | 0.36 | 7.8 | 334 | 21.6 |
| 6/4/2018 | Assessment | 0.032 | 59.2 | 19.4 | 0.38 | 7.4 | 368 | 21.3 |
| 8/14/2018 | Assessment | 0.056 | 64.1 | 19.6 | 0.36 | 7.3 | 329 | 20.4 |
| 9/25/2018 | Detection | 0.035 | 60.7 | 19.6 | 0.37 | 6.6 | 316 | 20.3 |
| 10/29/2018 | Assessment | 0.129 | 63.7 | 19.1 | 0.38 | 7.2 | 312 | 18.8 |
| 11/12/2018 | Assessment | 0.139 | 63.6 | 19.1 | 0.39 | 7.5 | 318 | 18.9 |
| 5/20/2019 | Assessment | <0.02 U | 56.5 | 19.7 | 0.42 | 7.2 | 320 | 20.0 |
| 6/25/2019 | Assessment | 0.02 J | 63.5 | 19.6 | 0.37 | 7.3 | 353 | 20.7 |
| 9/9/2019 | Assessment | <0.02 U | 57.0 | 20.0 | 0.37 | 7.2 | 332 | 17.8 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

- -: Not analyzed

Table 1 - Groundwater Data Summary: MW-1701S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 12/12/2017 | Detection | 0.04 | 0.36 | 10.0 | 0.004 | 0.02 | 0.177 | 0.134 | 1.792 | 0.35 | 0.075 | 0.010 | 0.002 | 1.61 | 0.3 | 0.02 J |
| 2/8/2018 | Detection | 0.14 | 0.39 | 9.51 | <0.004 U | 0.03 | 0.256 | 0.198 | 0.356 | 0.36 | 0.176 | 0.007 | <0.002 U | 0.85 | 0.4 | 0.03 J |
| 6/4/2018 | Assessment | 0.07 | 0.38 | 5.20 | <0.004 U | 0.009 J | 0.05 J | 0.087 | 1.053 | 0.38 | 0.023 | 0.009 | <0.002 U | 0.68 | 0.6 | 0.01 J |
| 8/14/2018 | Assessment | 0.04 J | 0.37 | 9.34 | <0.004 U | 0.008 J | 0.065 | 0.092 | 0.3729 | 0.36 | 0.028 | 0.002 | -- | 0.69 | 0.4 | 0.02 J |
| 9/25/2018 | Detection | 0.12 | 0.38 | 8.55 | <0.004 U | 0.008 J | 0.03 J | 0.096 | 1.02 | 0.37 | 0.021 | 0.002 | -- | 0.69 | 0.4 | <0.01 U |
| 10/29/2018 | Assessment | 0.07 J | 0.39 | 13.2 | <0.02 U | 0.02 J | 0.1 J | 0.091 | 0.1291 | 0.38 | 0.06 J | <0.009 U | -- | 0.7 J | 0.4 | <0.1 U |
| 11/12/2018 | Assessment | 0.08 J | 0.37 | 8.20 | <0.02 U | 0.01 J | 0.2 J | 0.092 | 0.2239 | 0.39 | 0.05 J | <0.009 U | -- | 0.7 J | 0.4 | <0.1 U |
| 5/20/2019 | Assessment | 0.06 J | 0.41 | 18.7 | <0.02 U | 0.04 J | 0.2 J | 0.053 | 0.0249 | 0.42 | 0.06 J | <0.009 U | <0.002 U | 0.7 J | 0.3 | <0.1 U |
| 6/25/2019 | Assessment | <0.10 U | 0.4 J | 8.08 | <0.1 U | <0.05 U | <0.2 U | 0.2 J | 0.931 | 0.37 | <0.1 U | 0.01 J | <0.002 U | <2 U | 0.5 J | <0.5 U |
| 9/9/2019 | Assessment | 0.16 | 0.38 | 16.8 | <0.02 U | <0.01 U | 0.1 J | 0.073 | 0.327 | 0.37 | <0.05 U | 0.00556 | <0.002 U | 0.7 J | 0.3 | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1702D
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|---------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 12/12/2017 | Detection | 0.105 | 74.3 | 30.3 | 0.19 | 7.2 | 362 | 39.9 |
| 2/9/2018 | Detection | 0.042 | 76.1 | 30.5 | 0.19 | 8.0 | 386 | 41.3 |
| 6/4/2018 | Assessment | 0.024 | 78.5 | 31.6 | 0.24 | 7.1 | 372 | 39.9 |
| 8/14/2018 | Assessment | 0.071 | 80.7 | 30.7 | 0.20 | 6.8 | 379 | 38.1 |
| 9/26/2018 | Detection | 0.096 | 80.0 | 31.2 | 0.20 | 7.1 | 392 | 37.8 |
| 10/30/2018 | Assessment | 0.06 J | 87.2 | 30.9 | 0.20 | 8.2 | 394 | 37.3 |
| 11/12/2018 | Assessment | 0.06 J | 89.8 | 31.5 | 0.21 | 7.4 | 374 | 37.3 |
| 5/20/2019 | Assessment | 0.02 J | 78.7 | 30.5 | 0.18 | 7.0 | 402 | 38.9 |
| 6/26/2019 | Assessment | 0.02 J | 80.0 | 30.4 | 0.17 | 7.6 | 388 | 39.0 |
| 9/10/2019 | Assessment | <0.02 U | 86.6 | 30.6 | 0.20 | 7.1 | 384 | 37.9 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

- -: Not analyzed

Table 1 - Groundwater Data Summary: MW-1702D

**Rockport - BAP
Appendix IV Constituents**

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|---------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 12/12/2017 | Detection | 0.29 | 28.0 | 233 | 0.022 | 0.03 | 0.572 | 1.45 | 1.271 | 0.19 | 0.761 | 0.009 | 0.002 | 8.67 | 0.2 | 0.03 J |
| 2/9/2018 | Detection | 0.25 | 22.5 | 212 | <0.004 U | 0.02 J | 0.389 | 0.877 | 0.977 | 0.19 | 0.270 | 0.007 | <0.002 U | 5.91 | 0.09 J | 0.03 J |
| 6/4/2018 | Assessment | 0.18 | 25.2 | 208 | 0.005 J | 0.02 | 0.105 | 0.698 | 1.345 | 0.24 | 0.052 | 0.009 | <0.002 U | 4.18 | <0.03 U | 0.02 J |
| 8/14/2018 | Assessment | 0.15 | 21.3 | 191 | <0.004 U | 0.02 J | 0.091 | 0.590 | 0.949 | 0.20 | 0.026 | 0.002 | -- | 3.68 | <0.03 U | 0.03 J |
| 9/26/2018 | Detection | 0.18 | 22.0 | 211 | <0.004 U | 0.01 J | 0.069 | 0.564 | 1.084 | 0.20 | 0.230 | 0.008 | -- | 3.38 | <0.03 U | 0.02 J |
| 10/30/2018 | Assessment | 0.10 | 22.5 | 204 | <0.02 U | 0.01 J | 0.08 J | 0.581 | 0.784 | 0.20 | 0.02 J | <0.009 U | -- | 2.77 | 0.03 J | <0.1 U |
| 11/12/2018 | Assessment | 0.08 J | 20.2 | 199 | <0.02 U | 0.02 J | 0.1 J | 0.498 | 1.167 | 0.21 | 0.03 J | <0.009 U | -- | 2.53 | <0.03 U | <0.1 U |
| 5/20/2019 | Assessment | 0.08 J | 25.6 | 223 | <0.02 U | 0.02 J | 0.1 J | 0.686 | 1.207 | 0.18 | 0.04 J | <0.009 U | <0.002 U | 2.43 | <0.03 U | <0.1 U |
| 6/26/2019 | Assessment | 0.07 J | 24.4 | 209 | <0.02 U | 0.02 J | 0.08 J | 0.601 | 0.689 | 0.17 | 0.07 J | 0.02 J | <0.002 U | 2.15 | 0.03 J | <0.1 U |
| 9/10/2019 | Assessment | 0.04 J | 22.1 | 203 | <0.02 U | <0.01 U | 0.1 J | 0.536 | 0.639 | 0.20 | <0.05 U | 0.00456 | <0.002 U | 2.16 | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1702I
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|---------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 12/12/2017 | Detection | 0.037 | 76.2 | 27.1 | 0.20 | 7.2 | 376 | 45.4 |
| 2/9/2018 | Detection | 0.045 | 72.7 | 27.6 | 0.22 | 7.8 | 377 | 46.6 |
| 6/4/2018 | Assessment | 0.081 | 76.2 | 28.7 | 0.24 | 7.1 | 760 | 43.4 |
| 8/13/2018 | Assessment | 0.051 | 81.1 | 29.0 | 0.22 | 6.6 | 382 | 41.5 |
| 9/25/2018 | Detection | 0.056 | 78.9 | 29.8 | 0.23 | 6.8 | 398 | 41.9 |
| 10/30/2018 | Assessment | 0.07 J | 81.7 | 29.2 | 0.23 | 7.8 | 392 | 41.9 |
| 11/12/2018 | Assessment | 0.07 J | 82.7 | 29.9 | 0.24 | 6.8 | 364 | 41.9 |
| 5/20/2019 | Assessment | 0.02 J | 73.2 | 28.8 | 0.21 | 6.9 | 376 | 44.5 |
| 6/25/2019 | Assessment | 0.02 J | 74.7 | 28.5 | 0.20 | 7.3 | 376 | 44.7 |
| 9/10/2019 | Assessment | <0.02 U | 80.2 | 28.9 | 0.24 | 7.1 | 384 | 43.6 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

- -: Not analyzed

Table 1 - Groundwater Data Summary: MW-1702I

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|--------|----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 12/12/2017 | Detection | 0.13 | 21.6 | 116 | 0.007 | 0.02 | 0.304 | 2.65 | 3.201 | 0.20 | 0.298 | 0.009 | 0.002 | 4.09 | 0.1 | 0.04 J |
| 2/9/2018 | Detection | 0.05 J | 42.3 | 109 | 0.007 J | 0.01 J | 1.49 | 2.15 | 1.324 | 0.22 | 0.337 | 0.004 | <0.002 U | 7.90 | 0.1 | 0.04 J |
| 6/4/2018 | Assessment | 0.07 | 28.1 | 109 | 0.007 J | 0.06 | 0.129 | 1.29 | 1.969 | 0.24 | 0.247 | 0.009 | <0.002 U | 1.91 | 0.08 J | 0.054 |
| 8/13/2018 | Assessment | 0.10 | 28.9 | 102 | 0.004 J | 0.02 J | 0.146 | 1.35 | 1.243 | 0.22 | 0.074 | 0.002 | -- | 1.89 | 0.05 J | 0.102 |
| 9/25/2018 | Detection | 0.44 | 39.6 | 114 | <0.004 U | 0.01 J | 0.05 | 1.70 | 0.3854 | 0.23 | 0.087 | 0.003 | -- | 2.04 | 0.04 J | 0.05 J |
| 10/30/2018 | Assessment | 0.14 | 43.0 | 113 | <0.02 U | 0.22 | 0.1 J | 1.57 | 1.364 | 0.23 | 0.129 | <0.009 U | -- | 2 J | 0.05 J | <0.1 U |
| 11/12/2018 | Assessment | 0.18 | 37.3 | 109 | <0.02 U | 0.05 | 0.1 J | 1.52 | 0.746 | 0.24 | 0.09 J | <0.009 U | -- | 2 J | 0.04 J | <0.1 U |
| 5/20/2019 | Assessment | 0.07 J | 49.5 | 115 | <0.02 U | 0.01 J | 0.05 J | 1.43 | 1.519 | 0.21 | 0.05 J | <0.009 U | <0.002 U | 2 J | 0.05 J | <0.1 U |
| 6/25/2019 | Assessment | 0.07 J | 54.1 | 114 | <0.02 U | 0.02 J | 0.07 J | 1.78 | 0.467 | 0.20 | 0.1 J | 0.02 J | <0.002 U | 2 J | 0.07 J | <0.1 U |
| 9/10/2019 | Assessment | 0.08 J | 55.8 | 112 | <0.02 U | <0.01 U | 0.1 J | 1.60 | 0.584 | 0.24 | 0.06 J | 0.00469 | <0.002 U | 2.03 | <0.03 U | <0.1 U |

Notes:

µg/L: micrograms per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

--: Not analyzed

pCi/L: picocuries per liter

**Table 1 - Groundwater Data Summary: MW-1702S
Rockport - BAP
Appendix III Constituents**

| Collection Date | Monitoring Program | Boron | Calcium | Chloride | Fluoride | pH | Total Dissolved Solids | Sulfate |
|-----------------|--------------------|--------|---------|----------|----------|-----|------------------------|---------|
| | | mg/L | mg/L | mg/L | mg/L | SU | mg/L | mg/L |
| 12/12/2017 | Detection | 0.051 | 33.6 | 13.4 | 0.49 | 7.3 | 254 | 22.7 |
| 2/9/2018 | Detection | 0.042 | 29.7 | 14.0 | 0.62 | 7.9 | 281 | 22.2 |
| 6/4/2018 | Assessment | 0.059 | 38.4 | 14.4 | 0.57 | 7.0 | 276 | 26.7 |
| 8/13/2018 | Assessment | 0.057 | 36.9 | 13.6 | 0.55 | 6.3 | 272 | 22.0 |
| 9/25/2018 | Detection | 0.041 | 36.2 | 14.1 | 0.54 | 6.6 | 266 | 20.7 |
| 10/30/2018 | Assessment | 0.09 J | 34.9 | 14.1 | 0.61 | 7.5 | 256 | 17.1 |
| 11/12/2018 | Assessment | 0.1 J | 41.5 | 14.5 | 0.56 | 6.8 | 246 | 21.5 |
| 5/20/2019 | Assessment | 0.03 J | 27.1 | 14.7 | 0.70 | 6.8 | 272 | 20.8 |
| 6/25/2019 | Assessment | 0.04 J | 36.7 | 14.6 | 0.59 | 7.2 | 284 | 22.3 |
| 9/10/2019 | Assessment | 0.04 J | 35.6 | 16.5 | 0.63 | 6.7 | 284 | 19.2 |

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

- -: Not analyzed

Table 1 - Groundwater Data Summary: MW-1702S

Rockport - BAP
Appendix IV Constituents

| Collection Date | Monitoring Program | Antimony | Arsenic | Barium | Beryllium | Cadmium | Chromium | Cobalt | Combined Radium | Fluoride | Lead | Lithium | Mercury | Molybdenum | Selenium | Thallium |
|-----------------|--------------------|----------|---------|--------|-----------|---------|----------|--------|-----------------|----------|--------|-----------|----------|------------|----------|----------|
| | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | pCi/L | mg/L | µg/L | mg/L | µg/L | µg/L | µg/L |
| 12/12/2017 | Detection | 0.08 | 0.88 | 12.1 | 0.008 | 0.01 | 4.13 | 0.403 | 0.984 | 0.49 | 0.324 | 0.003 | 0.002 | 2.18 | 1.1 | 0.01 J |
| 2/9/2018 | Detection | 0.05 J | 0.72 | 9.81 | <0.004 U | 0.006 J | 0.212 | 0.258 | 0.00483 | 0.62 | 0.223 | <0.0002 U | <0.002 U | 1.09 | 1.1 | 0.01 J |
| 6/4/2018 | Assessment | 0.05 J | 0.45 | 7.67 | <0.004 U | 0.04 | 0.124 | 0.070 | 1.231 | 0.57 | 0.077 | 0.006 | <0.002 U | 1.42 | 3.8 | 0.01 J |
| 8/13/2018 | Assessment | 0.13 | 0.47 | 7.14 | 0.005 J | 0.05 | 0.175 | 0.173 | 0.1628 | 0.55 | 0.188 | <0.0002 U | -- | 1.15 | 1.8 | 0.03 J |
| 9/25/2018 | Detection | 0.08 | 0.44 | 5.97 | <0.004 U | 0.008 J | 0.13 | 0.104 | 0.421 | 0.54 | 0.079 | <0.0002 U | -- | 1.2 | 1.2 | <0.01 U |
| 10/30/2018 | Assessment | 0.05 J | 0.48 | 5.50 | <0.02 U | 0.11 | 0.2 J | 0.05 J | 0.0859 | 0.61 | 0.08 J | <0.009 U | -- | 1 J | 1.0 | <0.1 U |
| 11/12/2018 | Assessment | 0.04 J | 0.42 | 6.27 | <0.02 U | 0.03 J | 0.2 J | 0.272 | 0.107 | 0.56 | 0.229 | <0.009 U | -- | 1 J | 1.5 | <0.1 U |
| 5/20/2019 | Assessment | 0.09 J | 0.45 | 5.92 | <0.02 U | 0.28 | 0.475 | 0.058 | 0.56253 | 0.70 | 0.373 | <0.009 U | <0.002 U | 1 J | 1.5 | <0.1 U |
| 6/25/2019 | Assessment | <0.10 U | 0.4 J | 5.71 | <0.1 U | <0.05 U | 0.2 J | <0.1 U | 0.357 | 0.59 | <0.1 U | <0.009 U | <0.002 U | <2 U | 2.4 | <0.5 U |
| 9/10/2019 | Assessment | 0.08 J | 0.43 | 4.87 | <0.02 U | 0.01 J | 0.215 | 0.096 | 0.2432 | 0.63 | 0.1 J | 0.00127 | <0.002 U | 1 J | 1.3 | <0.1 U |

Notes:

µg/L: micrograms per liter

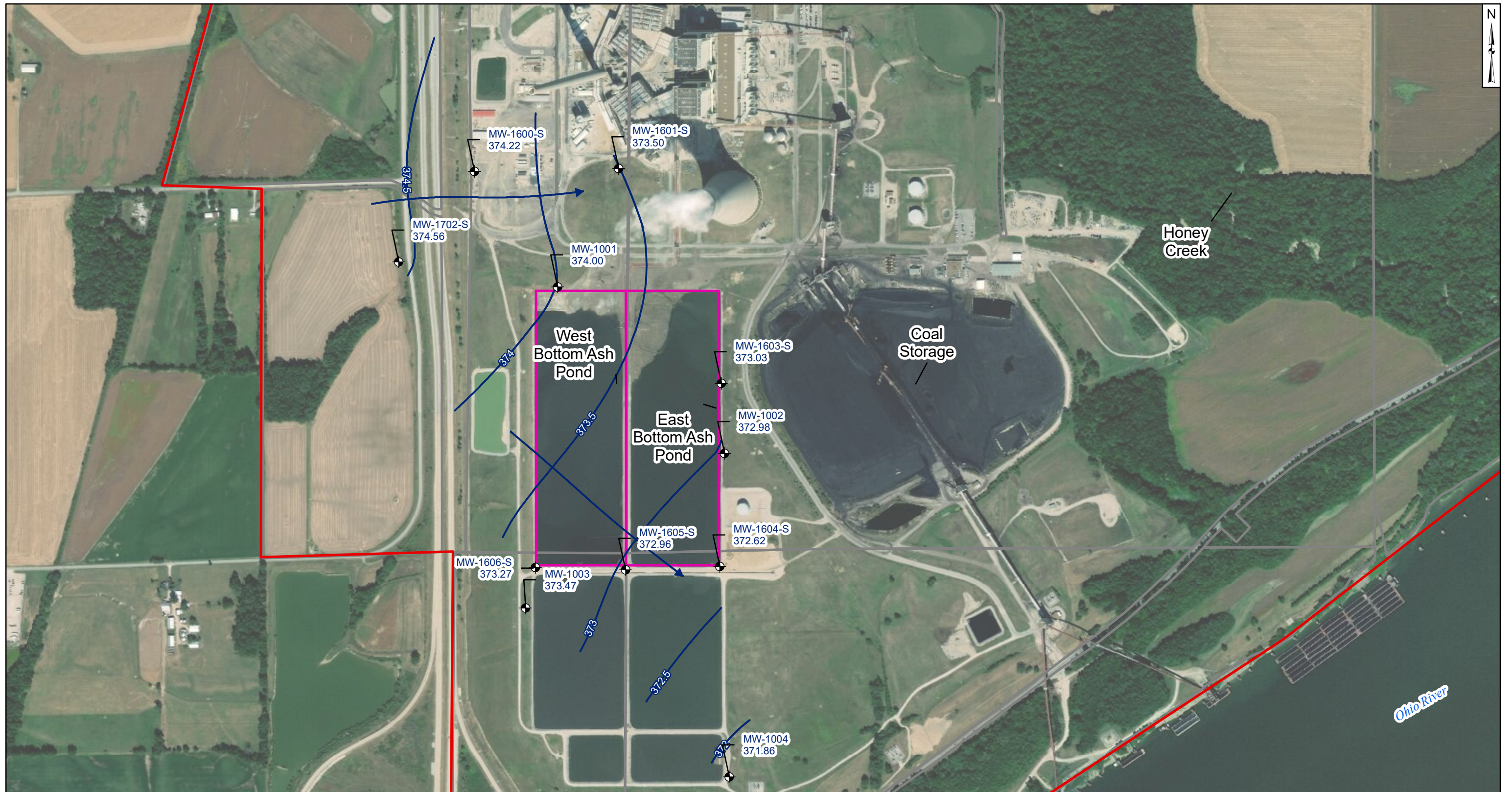
SU: standard unit

<: Non-detect value. Parameters which were not detected are shown as less than the method detection limit (MDL) followed by a 'U' flag.

J: Estimated value. Parameter was detected at concentration below the reporting limit

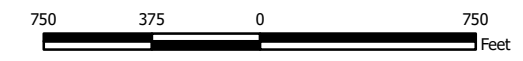
--: Not analyzed

pCi/L: picocuries per liter

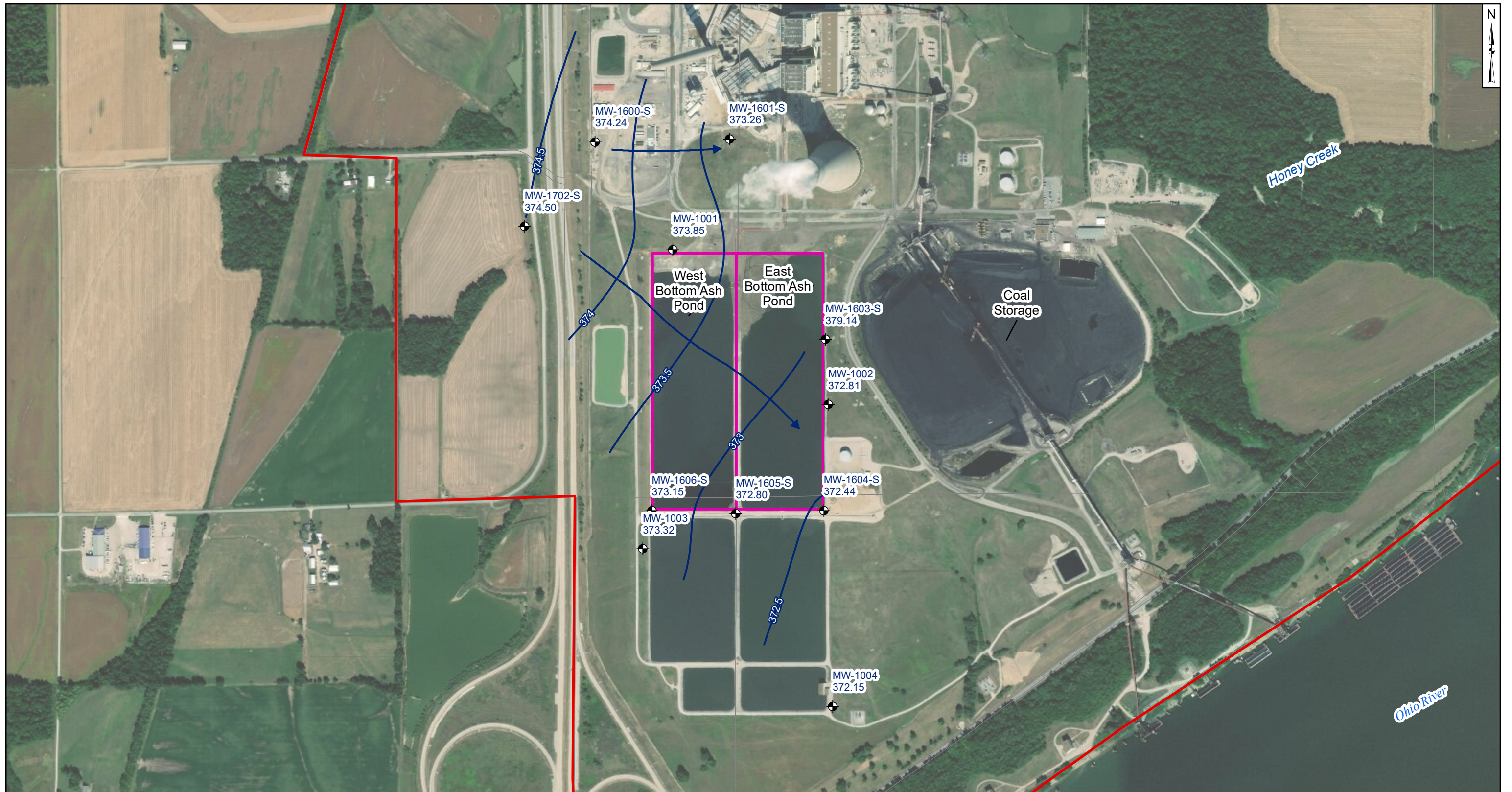


- Legend**
- Groundwater Monitoring Well
 - Approximate Groundwater Flow Direction
 - Groundwater Elevation Contour
 - Property Boundary
 - Parcel Boundaries
 - Bottom Ash Ponds

- Notes**
- Monitoring well coordinates and water level data (collected on May 20, 2019) provided by AEP.
 - Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC, 2016) provided by AEP.
 - Property and parcel boundaries taken from Spencer County Assessor.
 - Only shallow screened wells were used for generating groundwater contours.
 - Groundwater elevation units are feet above mean sea level.

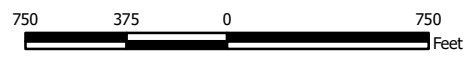


| | |
|--|------------|
| Potentiometric Surface Map - Uppermost Aquifer May 2019 | |
| AEP-Rockport Power Plant - Bottom Ash Ponds Rockport, Indiana | |
| | |
| Columbus, Ohio | 2019/12/11 |
| Figure X | |

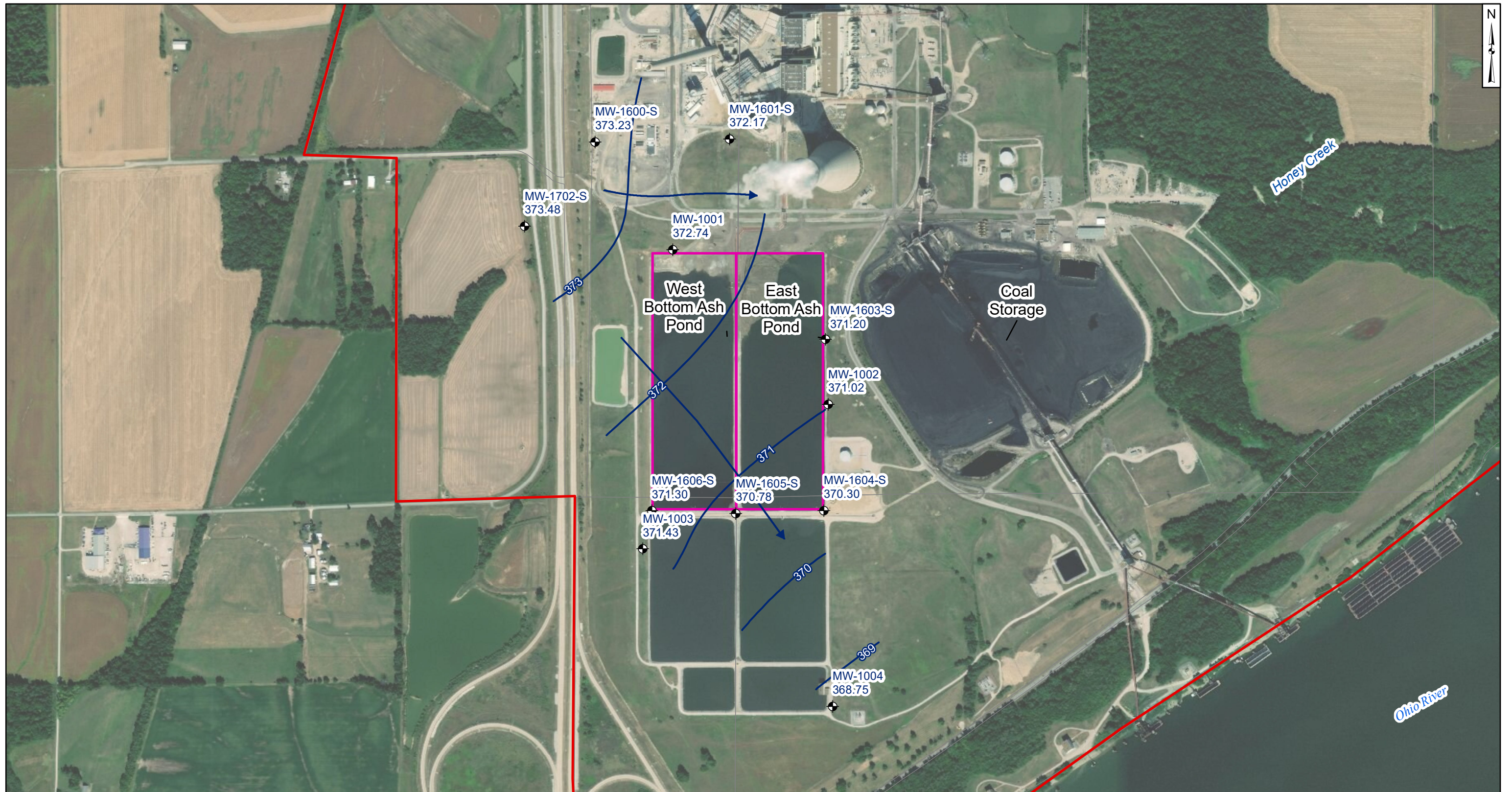


- Legend**
- ◆ Groundwater Monitoring Well
 - ➔ Approximate Groundwater Flow Direction
 - Groundwater Elevation Contour
 - ▭ Bottom Ash Ponds
 - ▭ Property Boundary
 - ▭ Parcel Boundaries

- Notes**
- Monitoring well coordinates and water level data (collected on June 24, 2019) provided by AEP.
 - Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC, 2016) provided by AEP.
 - Property and parcel boundaries taken from Spencer County Assessor.
 - Only shallow screened wells were used for generating groundwater contours.
 - Groundwater elevation units are feet above mean sea level.
 - MW-1603-S was not used in contouring due to anomalous or inconsistent data.



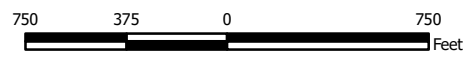
| | |
|---|------------|
| Potentiometric Surface Map - Uppermost Aquifer June 2019 | |
| AEP-Rockport Power Plant - Bottom Ash Ponds Rockport, Indiana | |
| Geosyntec consultants | |
| Columbus, Ohio | 2019/12/11 |
| Figure X | |



- Legend**
- ◆ Groundwater Monitoring Well
 - ➔ Approximate Groundwater Flow Direction
 - Groundwater Elevation Contour
 - ▭ Bottom Ash Ponds
 - ▭ Property Boundary
 - ▭ Parcel Boundaries

Notes

- Monitoring well coordinates and water level data (collected on September 9, 2019) provided by AEP.
- Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC, 2016) provided by AEP.
- Property and parcel boundaries taken from Spencer County Assessor.
- Only shallow screened wells were used for generating groundwater contours.
- Groundwater elevation units are feet above mean sea level.



| | |
|--|------------|
| Potentiometric Surface Map - Uppermost Aquifer September 2019 | |
| AEP-Rockport Power Plant - Bottom Ash Ponds Rockport, Indiana | |
| Geosyntec consultants | |
| Columbus, Ohio | 2019/12/12 |
| Figure X | |

**Table 2: Residence Time Calculation
Summary Rockport - Bottom Ash Ponds**

| CCR Management Unit | Monitoring Well | Well Diameter (inches) | 2019-05 | | 2019-06 | | 2019-09 | |
|-------------------------|-------------------------|------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|--------------------------------|-----------------------------------|
| | | | Groundwater Velocity (ft/year) | Groundwater Residence Time (days) | Groundwater Velocity (ft/year) | Groundwater Residence Time (days) | Groundwater Velocity (ft/year) | Groundwater Residence Time (days) |
| Bottom Ash Ponds | MW-1600D ^[1] | 2.0 | 94 | 0.65 | 371 | 0.16 | 22 | 2.7 |
| | MW-1600I ^[1] | 2.0 | 228 | 0.27 | 482 | 0.13 | 289 | 0.21 |
| | MW-1600S ^[1] | 2.0 | 295 | 0.21 | 549 | 0.11 | 511 | 0.12 |
| | MW-1601D ^[1] | 2.0 | 166 | 0.37 | 293 | 0.21 | 430 | 0.14 |
| | MW-1601I ^[1] | 2.0 | 300 | 0.20 | 407 | 0.15 | 502 | 0.12 |
| | MW-1601S ^[1] | 2.0 | 517 | 0.12 | 603 | 0.10 | 662 | 0.09 |
| | MW-1002 ^[2] | 2.0 | 223 | 0.27 | 303 | 0.20 | 564 | 0.11 |
| | MW-1602D ^[2] | 2.0 | 2,786 | 0.02 | 780 | 0.08 | 771 | 0.08 |
| | MW-1602I ^[2] | 2.0 | 1,671 | 0.04 | 589 | 0.10 | 674 | 0.09 |
| | MW-1603D ^[2] | 2.0 | 569 | 0.11 | 180 | 0.34 | 209 | 0.29 |
| | MW-1603I ^[2] | 2.0 | 399 | 0.15 | 1,981 | 0.03 | 237 | 0.26 |
| | MW-1603S ^[2] | 2.0 | 399 | 0.15 | 1,889 | 0.03 | 279 | 0.22 |
| | MW-1604D ^[2] | 2.0 | 451 | 0.13 | 940 | 0.06 | 820 | 0.07 |
| | MW-1604I ^[2] | 2.0 | 400 | 0.15 | 646 | 0.09 | 763 | 0.08 |
| | MW-1604S ^[2] | 2.0 | 389 | 0.16 | 352 | 0.17 | 660 | 0.09 |
| | MW-1605D ^[2] | 2.0 | 586 | 0.10 | 594 | 0.10 | 224 | 0.27 |
| | MW-1605I ^[2] | 2.0 | 358 | 0.17 | 291 | 0.21 | 863 | 0.07 |
| | MW-1605S ^[2] | 2.0 | 402 | 0.15 | 349 | 0.17 | 703 | 0.09 |
| | MW-1606D ^[2] | 2.0 | 370 | 0.16 | 345 | 0.18 | 668 | 0.09 |
| | MW-1606I ^[2] | 2.0 | 347 | 0.18 | 249 | 0.24 | 739 | 0.08 |
| MW-1606S ^[2] | 2.0 | 303 | 0.20 | 287 | 0.21 | 528 | 0.12 | |

Notes:

[1] - Upgradient Well

[2] - Downgradient Well

APPENDIX 2

ROCKPORT PLANT CCR BOTTOM ASH PONDS

ANNUAL GROUNDWATER MONITORING REPORT COVERING 2019 ACTIVITIES

STATISTICAL ANALYSES SUMMARY OF MAY 2019 SAMPLING EVENT

STATISTICAL ANALYSIS SUMMARY
Bottom Ash Pond
Rockport Plant
Rockport, Indiana

Submitted to



1 Riverside Plaza
Columbus, Ohio 43215-2372

Submitted by



engineers | scientists | innovators

941 Chatham Lane
Suite 103
Columbus, Ohio 43221

October 11, 2019

CHA8473

TABLE OF CONTENTS

| | |
|---|-----|
| SECTION 1 Executive Summary | 1 |
| SECTION 2 Landfill Evaluation | 2-1 |
| 2.1 Data Validation & QA/QC | 2-1 |
| 2.2 Statistical Analysis..... | 2-1 |
| 2.2.1 Establishment of GWPSs..... | 2-1 |
| 2.2.2 Evaluation of Potential Appendix IV SSLs | 2-2 |
| 2.2.3 Evaluation of Potential Appendix III SSIs | 2-2 |
| 2.3 Conclusions..... | 2-3 |
| SECTION 3 References | 3-1 |

LIST OF TABLES

| | |
|---------|----------------------------------|
| Table 1 | Groundwater Data Summary |
| Table 2 | Groundwater Protection Standards |
| Table 3 | Appendix III Data Summary |

LIST OF ATTACHMENTS

| | |
|--------------|--|
| Attachment A | Certification by Qualified Professional Engineer |
| Attachment B | Statistical Analysis Output |

LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|-------|---|
| AEP | American Electric Power |
| ASD | Alternative Source Demonstration |
| BAP | Bottom Ash Pond |
| CCR | Coal Combustion Residuals |
| CCV | Continuing Calibration Verification |
| CFR | Code of Federal Regulations |
| GWPS | Groundwater Protection Standard |
| LCL | Lower Confidence Limit |
| LFB | Laboratory Fortified Blanks |
| LRB | Laboratory Reagent Blanks |
| MCL | Maximum Contaminant Level |
| NELAP | National Environmental Laboratory Accreditation Program |
| QA | Quality Assurance |
| QC | Quality Control |
| RSL | Regional Screening Level |
| SSI | Statistically Significant Increase |
| SSL | Statistically Significant Level |
| TDS | Total Dissolved Solids |
| UPL | Upper Prediction Limit |
| USEPA | United States Environmental Protection Agency |
| UTL | Upper Tolerance Limit |

SECTION 1

EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency's (USEPA's) regulations regarding the disposal of coal combustion residuals (CCR) in landfills and surface impoundments (40 CFR 257.90-257.98, "CCR rule"), groundwater monitoring has been conducted at the Bottom Ash Pond (BAP), an existing CCR unit at the Rockport Power Plant located in Rockport, Indiana.

Based on detection monitoring conducted in 2017 and 2018, statistically significant increases (SSIs) over background were concluded for boron, chloride, fluoride, total dissolved solids (TDS), and sulfate at the BAP. An alternative source was not identified at the time, so two assessment monitoring events were conducted at the BAP in 2018, in accordance with 40 CFR 257.95. No SSLs were identified during these events and the unit remained in assessment monitoring. A semi-annual assessment monitoring event was also completed in May 2019, with the results of the May 2019 event documented in this report.

Groundwater data underwent several validation tests, including those for completeness, sample tracking accuracy, transcription errors, and consistent use of measurement units. No data quality issues were identified which would impact the usability of the data.

The monitoring data were submitted to Groundwater Stats Consulting, LLC for statistical analysis. Groundwater protection standards (GWPSs) were re-established for the Appendix IV parameters. Confidence intervals were calculated for Appendix IV parameters at the compliance wells to assess whether Appendix IV parameters were present at a statistically significant level (SSL) above the GWPS. No SSLs were identified, but Appendix III concentrations for boron, chloride, fluoride, sulfate, and TDS remained above background. Thus, either the unit will remain in assessment monitoring or an alternative source demonstration (ASD) will be conducted to evaluate if the unit can return to detection monitoring. Certification of the selected statistical methods by a qualified professional engineer is documented in Attachment A.

SECTION 2

LANDFILL EVALUATION

2.1 Data Validation & QA/QC

During the assessment monitoring program, one set of samples was collected for analysis from each upgradient and downgradient well to meet the requirements of 40 CFR 257.95(d)(1). Samples from the May 2019 semi-annual sampling event were analyzed for the Appendix III and Appendix IV parameters. A summary of data collected during this assessment monitoring event may be found in Table 1.

Chemical analysis was completed by an analytical laboratory certified by the National Environmental Laboratory Accreditation Program (NELAP). Quality assurance and quality control (QA/QC) samples completed by the analytical laboratory included the use of laboratory reagent blanks (LRBs), continuing calibration verification (CCV) samples, and laboratory fortified blanks (LFBs).

The analytical data were imported into a Microsoft Access database, where checks were completed to assess the accuracy of sample location identification and analyte identification. Where necessary, unit conversions were applied to standardize reported units across all sampling events. Exported data files were created for use with the Sanitas™ v.9.6.14 statistics software. The export file was checked against the analytical data for transcription errors and completeness. No QA/QC issues were noted which would impact data usability.

2.2 Statistical Analysis

Statistical analyses for the BAP were conducted in accordance with the January 2017 *Statistical Analysis Plan* (AEP, 2017), except where noted below. Time series plots and results for all completed statistical tests are provided in Attachment B.

The data obtained to meet the requirements of 40 CFR 257.95(d)(1) were screened for potential outliers. No outliers were identified.

2.2.1 Establishment of GWPSs

A GWPS was established for each Appendix IV parameter in accordance with 40 CFR 257.95(h) and the *Statistical Analysis Plan* (AEP, 2017). The established GWPS was determined to be the greater value of the background concentration and the maximum contaminant level (MCL) or risk-based level specified in 40 CFR 257.95(h)(2) for each Appendix IV parameter. To determine background concentrations, an upper tolerance limit (UTL) was calculated using pooled data from the background wells collected during the background monitoring and assessment monitoring events. Tolerance limits were calculated parametrically with 95% coverage and 95% confidence for chromium, combined radium, and molybdenum. Non-parametric tolerance limits were

calculated for antimony, arsenic, barium, beryllium, cadmium, cobalt, fluoride, lead, lithium, selenium, and thallium due to apparent non-normal distributions and for mercury due to a high non-detect frequency. Tolerance limits and the final GWPSs are summarized in Table 2.

2.2.2 Evaluation of Potential Appendix IV SSLs

A confidence interval was constructed for each Appendix IV parameter at each compliance well. Confidence limits were generally calculated parametrically ($\alpha = 0.01$); however, non-parametric confidence limits were calculated in some cases (e.g., when the data did not appear to be normally distributed or when the non-detect frequency was too high). An SSL was concluded if the lower confidence limit (LCL) exceeded the GWPS (i.e., if the entire confidence interval exceeded the GWPS). Calculated confidence limits are shown in Attachment B.

No SSLs were identified at the Rockport BAP.

2.2.3 Evaluation of Potential Appendix III SSIs

The CCR rule allows CCR units to move from assessment monitoring to detection monitoring if all Appendix III and Appendix IV parameters were at or below background levels for two consecutive sampling events [40 CFR 257.95(e)]. Since no Appendix IV SSLs were identified, Appendix III results were analyzed to assess whether concentrations of Appendix III parameters at the compliance wells exceeded background concentrations.

Prediction limits were calculated for the Appendix III parameters to represent background values. As described in the January 2018 *Statistical Analysis Summary* report (Geosyntec, 2018), intrawell tests were used to evaluate potential SSIs for calcium and pH, whereas interwell tests were used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS.

Prediction limits for the interwell tests were recalculated using data collected during the May 2019 assessment monitoring event. Twelve data points (i.e., one sample from twelve background wells) were added to the background dataset for each interwell test. New data were tested for outliers prior to being added to the background dataset. The updated prediction limits were calculated for a one-of-two retesting procedure, as during detection monitoring. The values of the updated prediction limits were similar to the values of the prediction limits calculated during detection monitoring. The revised interwell prediction limits were used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS.

For the intrawell tests, limited data made it possible to add only one data point (i.e., one sample from each compliance well) to each background dataset. Because one sample result is insufficient to compare against the existing background dataset, the prediction limits were not updated for the intrawell tests at this time. The intrawell prediction limits calculated during detection monitoring were used to evaluate potential SSIs for calcium and pH. Thus, the prediction limits for the intrawell parameters continued to use a one-of-three retesting procedure.

Data collected during the May 2019 assessment monitoring event from each compliance well were compared to the prediction limits to evaluate results above background values. Verification sampling was completed in June and September 2019. The results from these events and the prediction limits are summarized in Table 3. The following exceedances of the upper prediction limits (UPLs) were noted:

- Boron concentrations exceeded the interwell UPL of 0.133 mg/L at MW-1002 (1.61 mg/L and 1.82 mg/L), MW-1603S (1.47 mg/L and 1.65 mg/L), MW-1604I (0.254 mg/L and 0.278 mg/L), MW-1604S (0.451 mg/L and 0.667 mg/L), and MW-1605S (0.415 mg/L and 0.438 mg/L).
- Chloride concentrations exceeded the interwell UPL of 46.4 at MW-1002 (55.9 mg/L and 57.1 mg/L), MW-1602D (68.3 mg/L and 68.7 mg/L), MW-1603S (56.0 mg/L and 57.8 mg/L), MW-1604I (70.1 mg/L and 63.5 mg/L), and MW-1604S (57.2 mg/L and 81.4 mg/L).
- Fluoride concentrations exceeded the interwell UPL of 0.70 mg/L at MW-1002 (1.13 mg/L and 1.10 mg/L) and MW-1604S (0.99 mg/L and 0.91 mg/L).
- Sulfate concentrations exceeded the interwell UPL of 76.0 mg/L at MW-1002 (169 mg/L and 173 mg/L), MW-1603S (187 mg/L and 205 mg/L), MW-1604I (181 mg/L and 167 mg/L), MW-1604S (179 mg/L and 246 mg/L), MW-1605I (89.2 mg/L and 104 mg/L), and MW-1605S (147 mg/L and 150 mg/L).
- TDS concentrations exceeded the interwell UPL of 465 mg/L at MW-1603I (467 mg/L and 560 mg/L), MW-1603S (506 mg/L and 530 mg/L), MW-1604I (618 mg/L and 622 mg/L), MW-1604S (572 mg/L and 718 mg/L), and MW-1605S (586 mg/L and 595 mg/L).

Based on these results, concentrations of six Appendix III parameters exceeded background levels at compliance wells at the Rockport BAP during assessment monitoring. As a result, the Rockport BAP CCR unit will remain in assessment monitoring.

2.3 Conclusions

A semi-annual assessment monitoring event was conducted in accordance with the CCR Rule. The laboratory and field data were reviewed prior to statistical analysis, with no QA/QC issues identified that impacted data usability. A review of outliers identified no potential outliers in the May 2019 data. GWPSs were re-established for the Appendix IV parameters. A confidence interval was constructed at each compliance well for each Appendix IV parameter; SSLs were concluded if the entire confidence interval exceeded the GWPS. No SSLs were identified.

The Appendix III results were evaluated to assess whether concentrations of Appendix III parameters exceeded background levels. Interwell tests were used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS, and intrawell tests were used to evaluate potential SSIs for calcium and pH. The prediction limits for the interwell tests were updated with additional data

collected from the background wells. Prediction limits were recalculated using a one-of-two retesting procedure for interwell parameters and a one-of-three retesting procedure for intrawell parameters. The prediction limits calculated during detection monitoring were used for the intrawell tests. SSIs were identified for boron, chloride, fluoride, sulfate, and TDS.

Based on this evaluation, either the Rockport BAP CCR unit will remain in assessment monitoring or an ASD will be conducted to evaluate if the unit can return to detection monitoring.

SECTION 3

REFERENCES

American Electric Power (AEP). 2017. Statistical Analysis Plan – Rockport Plant. January 2017.

Geosyntec Consultants (Geosyntec). 2018. Statistical Analysis Summary –Bottom Ash Pond, Rockport Plant, Rockport, Indiana. January 15, 2018.

TABLES

**Table 1 - Groundwater Data Summary
Rockport - Bottom Ash Pond**

| Parameter | Unit | MW-1002 | MW-1600D | MW-1600I | MW-1600S | MW-1601D | MW-1601S | MW-1602D | MW-1602I | MW-1603D | MW-1603I | MW-1603S | MW-1604D | MW-1604I | MW-1604S |
|------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 5/24/2019 | 5/20/2019 | 5/20/2019 | 5/21/2019 | 5/24/2019 | 5/24/2019 | 5/24/2019 | 5/24/2019 | 5/21/2019 | 5/21/2019 | 5/21/2019 | 5/21/2019 | 5/21/2019 | 5/21/2019 |
| Antimony | µg/L | 0.0500 J | 0.100 U | 0.100 U | 0.0300 J | 0.100 U | 0.100 U | 0.100 U | 0.0800 J | 0.100 U | 0.0200 J | 0.0300 J | 0.100 U | 0.0200 J | 0.0600 J |
| Arsenic | µg/L | 0.230 | 20.3 | 17.7 | 0.500 | 10.3 | 2.05 | 9.29 | 29.6 | 12.6 | 12.9 | 0.170 | 18.3 | 21.2 | 0.180 |
| Barium | µg/L | 13.3 | 873 | 737 | 26.7 | 638 | 37.2 | 405 | 121 | 111 | 81.6 | 14.0 | 235 | 151 | 18.8 |
| Beryllium | µg/L | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Boron | mg/L | 1.61 | 0.100 U | 0.0300 J | 0.0500 J | 0.0300 J | 0.0600 J | 0.0400 J | 0.0500 J | 0.0400 J | 0.0600 J | 1.47 | 0.0300 J | 0.254 | 0.451 |
| Cadmium | µg/L | 0.0300 J | 0.0800 | 0.0500 U | 0.0100 J | 0.0500 U | 0.0500 U | 0.0500 U | 0.0300 J | 0.0500 U | 0.0500 U | 0.0200 J | 0.0500 U | 0.0500 U | 0.0300 J |
| Calcium | mg/L | 32.9 | 76.5 | 71.0 | 57.4 | 85.4 | 77.2 | 67.9 | 74.6 | 71.6 | 81.4 | 62.6 | 69.3 | 78.2 | 80.4 |
| Chloride | mg/L | 55.9 | 31.4 | 25.4 | 27.9 | 23.6 | 38.5 | 68.3 | 29.0 | 25.3 | 39.4 | 56.0 | 16.1 | 70.1 | 57.2 |
| Chromium | µg/L | 0.0900 J | 0.274 | 0.100 J | 1.34 | 0.0600 J | 0.0800 J | 0.0500 J | 0.305 | 0.0500 J | 0.0800 J | 0.0900 J | 0.0400 J | 0.0500 J | 0.219 |
| Cobalt | µg/L | 0.754 | 0.176 | 1.24 | 0.127 | 0.0900 | 0.0200 J | 0.0650 | 1.75 | 0.354 | 1.39 | 0.417 | 0.0510 | 1.03 | 0.352 |
| Combined Radium | pCi/L | 0.189 | 1.95 | 1.99 | 0.623 | 0.977 | 0.0711 | 0.710 | 0.819 | 0.730 | 0.832 | 0.529 | 0.771 | 1.46 | 0.677 |
| Fluoride | mg/L | 1.13 | 0.210 | 0.220 | 0.440 | 0.190 | 0.360 | 0.330 | 0.300 | 0.280 | 0.450 | 0.550 | 0.270 | 0.340 | 0.990 |
| Lead | µg/L | 0.100 U | 0.238 | 0.100 U | 0.0700 J | 0.100 U | 0.0300 J | 0.100 U | 0.354 | 0.0400 J | 0.100 U | 0.100 U | 0.0600 J | 0.100 U | 0.0300 J |
| Lithium | mg/L | 0.0300 U | 0.0300 U | 0.0300 U | 0.0100 J | 0.0100 J | 0.0100 J | 0.0100 J | 0.00900 J | 0.0300 U | 0.0300 U | 0.0300 U | 0.0300 U | 0.0100 J | 0.0300 U |
| Mercury | µg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 8.67 | 2.00 J | 2.00 J | 0.700 J | 2.63 | 1.00 J | 3.23 | 2.03 | 4.56 | 6.45 | 2.00 U | 2.52 | 2.54 | 2.29 |
| Selenium | µg/L | 0.0500 J | 0.200 U | 0.200 U | 0.600 | 0.0300 J | 1.70 | 0.0300 J | 0.0400 J | 0.200 U | 0.200 U | 0.0800 J | 0.200 U | 0.100 J | 0.0700 J |
| Total Dissolved Solids | mg/L | 435 | 394 | 411 | 423 | 414 | 451 | 418 | 410 | 397 | 467 | 506 | 309 | 618 | 572 |
| Sulfate | mg/L | 169 | 43.0 | 52.8 | 57.4 | 24.9 | 41.8 | 20.5 | 65.9 | 38.5 | 74.6 | 187 | 27.4 | 181 | 179 |
| Thallium | µg/L | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U |
| pH | SU | 7.38 | 7.17 | 7.29 | 6.94 | 7.06 | 7.15 | 7.43 | 7.42 | 7.19 | 7.25 | 6.59 | 7.24 | 7.33 | 7.48 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.

J: Estimated value. Parameter was detected in concentrations below the reporting limit.

**Table 1 - Groundwater Data Summary
Rockport - Bottom Ash Pond**

| Parameter | Unit | MW-1605D | MW-1605I | MW-1605S | MW-1606D | MW-1606I | MW-1606S | MW-1701D | MW-1701I | MW-1701S | MW-1702D | MW-1702I | MW-1702S |
|------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 5/24/2019 | 5/24/2019 | 5/24/2019 | 5/24/2019 | 5/21/2019 | 5/21/2019 | 5/20/2019 | 5/20/2019 | 5/20/2019 | 5/20/2019 | 5/20/2019 | 5/20/2019 |
| Antimony | µg/L | 0.0500 J | 0.0400 J | 0.150 | 0.100 U | 0.100 U | 0.140 | 0.100 U | 0.140 | 0.0600 J | 0.0800 J | 0.0700 J | 0.0900 J |
| Arsenic | µg/L | 13.9 | 25.3 | 2.84 | 17.4 | 7.69 | 0.190 | 9.55 | 12.8 | 0.410 | 25.6 | 49.5 | 0.450 |
| Barium | µg/L | 385 | 157 | 15.4 | 447 | 74.5 | 16.7 | 65.1 | 41.5 | 18.7 | 223 | 115 | 5.92 |
| Beryllium | µg/L | 0.100 U | 0.100 U | 0.0400 J | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Boron | mg/L | 0.0200 J | 0.0800 J | 0.415 | 0.0200 J | 0.0200 J | 0.0500 J | 0.0200 J | 0.0200 J | 0.100 U | 0.0200 J | 0.0200 J | 0.0300 J |
| Cadmium | µg/L | 0.0500 U | 0.0500 U | 0.110 | 0.0500 U | 0.0500 U | 0.0500 J | 0.0500 U | 0.0200 J | 0.0400 J | 0.0200 J | 0.0100 J | 0.280 |
| Calcium | mg/L | 75.7 | 73.8 | 76.0 | 75.7 | 79.5 | 48.9 | 66.8 | 59.6 | 56.5 | 78.7 | 73.2 | 27.1 |
| Chloride | mg/L | 22.1 | 36.8 | 46.1 | 25.0 | 29.8 | 26.6 | 14.0 | 12.8 | 19.7 | 30.5 | 28.8 | 14.7 |
| Chromium | µg/L | 0.0600 J | 0.0700 J | 0.636 | 0.100 J | 0.200 U | 0.100 J | 0.200 J | 0.0900 J | 0.200 J | 0.100 J | 0.0500 J | 0.475 |
| Cobalt | µg/L | 0.255 | 1.12 | 3.91 | 0.0660 | 1.56 | 0.0940 | 1.59 | 1.16 | 0.0530 | 0.686 | 1.43 | 0.0580 |
| Combined Radium | pCi/L | 1.12 | 1.05 | 0.269 | 0.946 | 0.562 | 0.668 | 0.702 | 0.628 | 0.0249 | 1.21 | 1.52 | 0.563 |
| Fluoride | mg/L | 0.240 | 0.230 | 0.610 | 0.200 | 0.160 | 0.470 | 0.320 | 0.400 | 0.420 | 0.180 | 0.210 | 0.700 |
| Lead | µg/L | 0.100 U | 0.0400 J | 1.96 | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.0900 J | 0.0600 J | 0.0400 J | 0.0500 J | 0.373 |
| Lithium | mg/L | 0.0300 U | 0.0100 J | 0.0200 J | 0.0300 U | 0.0300 U | 0.0300 U | 0.0300 U | 0.0300 U | 0.0300 U | 0.0300 U | 0.0300 U | 0.0300 U |
| Mercury | µg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 2.60 | 1.00 J | 2.00 J | 2.00 J | 0.800 J | 0.900 J | 1.00 J | 1.00 J | 0.700 J | 2.43 | 2.00 J | 1.00 J |
| Selenium | µg/L | 0.200 U | 0.0400 J | 0.300 | 0.200 U | 0.200 U | 3.30 | 0.200 U | 0.200 U | 0.300 | 0.200 U | 0.0500 J | 1.50 |
| Total Dissolved Solids | mg/L | 364 | 443 | 586 | 330 | 407 | 416 | 371 | 345 | 320 | 402 | 376 | 272 |
| Sulfate | mg/L | 38.9 | 89.2 | 147 | 19.6 | 55.5 | 64.5 | 43.5 | 39.8 | 20.0 | 38.9 | 44.5 | 20.8 |
| Thallium | µg/L | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U |
| pH | SU | 6.92 | 7.30 | 7.26 | 7.15 | 8.56 | 7.85 | 7.20 | 7.32 | 7.16 | 6.97 | 6.87 | 6.82 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.

J: Estimated value. Parameter was detected in concentrations below the reporting limit.

**Table 2: Groundwater Protection Standards
Rockport Plant - Bottom Ash Pond**

| Constituent Name | MCL | CCR Rule-Specified | Background Limit |
|--------------------------------|-------|--------------------|------------------|
| Antimony, Total (mg/L) | 0.006 | | 0.0004 |
| Arsenic, Total (mg/L) | 0.01 | | 0.05 |
| Barium, Total (mg/L) | 2 | | 1.00 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0001 |
| Cadmium, Total (mg/L) | 0.005 | | 0.00028 |
| Chromium, Total (mg/L) | 0.1 | | 0.0011 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.003 |
| Combined Radium, Total (pCi/L) | 5 | | 3.3 |
| Fluoride, Total (mg/L) | 4 | | 0.70 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.0015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.038 |
| Mercury, Total (mg/L) | 0.002 | | 0.000005 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.004 |
| Selenium, Total (mg/L) | 0.05 | | 0.0038 |
| Thallium, Total (mg/L) | 0.002 | | 0.0005 |

Notes:

Grey cell indicates calculated UTL is higher than MCL.

MCL = Maximum Contaminant Level

Calculated UTL (Upper Tolerance Limit) represents site-specific background values.

The higher of the calculated UTL or MCL/Rule-Specified Level is used as the GWPS.

**Table 3: Appendix III Data Summary
Rockport Plant - Bottom Ash Pond**

| Parameter | Units | Description | MW-1002 | | MW-1602D | | MW-1602I | MW-1603D | MW-1603I | | MW-1603S | | MW-1604D | MW-1604I | | MW-1604S | |
|------------------------|-------|----------------------------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|------------|-------------|-------------|-----------|--------------|--------------|--------------|--------------|
| | | | 5/24/2019 | 6/27/2019 | 5/24/2019 | 6/27/2019 | 5/24/2019 | 5/21/2019 | 5/21/2019 | 6/27/2019 | 5/21/2019 | 6/27/2019 | 5/21/2019 | 5/21/2019 | 6/27/2019 | 5/20/2019 | 6/26/2019 |
| Boron | mg/L | Interwell Background Value (UPL) | 0.133 | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 1.61 | 1.82 | 0.04 | -- | 0.05 | 0.04 | 0.06 | -- | 1.47 | 1.65 | 0.03 | 0.254 | 0.278 | 0.451 | 0.667 |
| Calcium | mg/L | Intrawell Background Value (UPL) | 94.3 | | 83.7 | | 92.7 | 101.7 | 109.2 | | 110.7 | | 78.4 | 85.8 | | 117.6 | |
| | | Detection Monitoring Result | 32.9 | | 67.9 | -- | 74.6 | 71.6 | 81.4 | -- | 62.6 | -- | 69.3 | 78.2 | -- | 80.4 | -- |
| Chloride | mg/L | Interwell Background Value (UPL) | 46.4 | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 55.9 | 57.1 | 68.3 | 68.7 | 29 | 25.3 | 39.4 | -- | 56.0 | 57.8 | 16.1 | 70.1 | 63.5 | 57.2 | 81.4 |
| Fluoride | mg/L | Interwell Background Value (UPL) | 0.70 | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 1.13 | 1.10 | 0.33 | -- | 0.3 | 0.28 | 0.45 | -- | 0.55 | -- | 0.27 | 0.34 | -- | 0.99 | 0.91 |
| pH | SU | Intrawell Background Value (UPL) | 7.3 | | 9.3 | | 7.6 | 7.5 | 7.6 | | 7.9 | | 7.5 | 7.7 | | 7.7 | |
| | | Intrawell Background Value (LPL) | 6.0 | | 4.9 | | 6.7 | 6.7 | 7.2 | | 6.0 | | 6.9 | 7.0 | | 7.1 | |
| | | Detection Monitoring Result | 7.4 | 7.1 | 7.4 | -- | 7.4 | 7.2 | 7.3 | -- | 6.6 | -- | 7.2 | 7.3 | -- | 7.5 | -- |
| Sulfate | mg/L | Interwell Background Value (UPL) | 76.0 | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 169 | 173 | 20.5 | -- | 65.9 | 38.5 | 74.6 | -- | 187 | 205 | 27.4 | 181 | 167 | 179 | 246 |
| Total Dissolved Solids | mg/L | Interwell Background Value (UPL) | 465 | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 435 | -- | 418 | -- | 410 | 397 | 467 | 560 | 506 | 530 | 309 | 618 | 622 | 572 | 718 |

| Parameter | Units | Description | MW-1605D | MW-1605I | | MW-1605S | | MW-1606D | MW-1606I | | | MW-1606S | |
|------------------------|-------|----------------------------------|-----------|-------------|------------|--------------|--------------|-----------|-------------|-------------|-----------|------------|-----------|
| | | | 5/24/2019 | 5/24/2019 | 6/25/2019 | 5/24/2019 | 6/27/2019 | 5/24/2019 | 5/21/2019 | 6/25/2019 | 9/12/2019 | 5/21/2019 | 6/25/2019 |
| Boron | mg/L | Interwell Background Value (UPL) | 0.133 | | | | | | | | | | |
| | | Detection Monitoring Result | 0.02 | 0.08 | -- | 0.415 | 0.438 | 0.02 | 0.02 | -- | -- | 0.05 | -- |
| Calcium | mg/L | Intrawell Background Value (UPL) | 96.9 | 109.6 | | 88.7 | | 82.0 | 76.1 | | | 59.9 | |
| | | Detection Monitoring Result | 75.7 | 73.8 | -- | 76 | -- | 75.7 | 79.5 | 86.8 | 72.8 | 48.9 | -- |
| Chloride | mg/L | Interwell Background Value (UPL) | 46.4 | | | | | | | | | | |
| | | Detection Monitoring Result | 22.1 | 36.8 | -- | 46.1 | -- | 25 | 29.8 | -- | -- | 26.6 | -- |
| Fluoride | mg/L | Interwell Background Value (UPL) | 0.70 | | | | | | | | | | |
| | | Detection Monitoring Result | 0.24 | 0.23 | -- | 0.61 | -- | 0.2 | 0.16 | -- | -- | 0.47 | -- |
| pH | SU | Intrawell Background Value (UPL) | 7.5 | 7.5 | | 7.3 | | 8.8 | 8.0 | | | 7.3 | |
| | | Intrawell Background Value (LPL) | 6.8 | 6.8 | | 7.0 | | 5.5 | 4.5 | | | 6.6 | |
| | | Detection Monitoring Result | 6.9 | 7.3 | -- | 7.3 | -- | 7.2 | 8.6 | 7.2 | -- | 7.9 | 7.0 |
| Sulfate | mg/L | Interwell Background Value (UPL) | 76.0 | | | | | | | | | | |
| | | Detection Monitoring Result | 38.9 | 89.2 | 104 | 147 | 150 | 19.6 | 55.5 | -- | -- | 64.5 | -- |
| Total Dissolved Solids | mg/L | Interwell Background Value (UPL) | 465 | | | | | | | | | | |
| | | Detection Monitoring Result | 364 | 443 | -- | 586 | 595 | 330 | 407 | -- | -- | 416 | -- |

Notes:
 UPL: Upper prediction limit
 LPL: Lower prediction limit
 *: Designates results for a duplicate sample
Bold values exceed the background value.
 Background values are shaded gray.

ATTACHMENT A
Certification by Qualified Professional Engineer

Certification by Qualified Professional Engineer

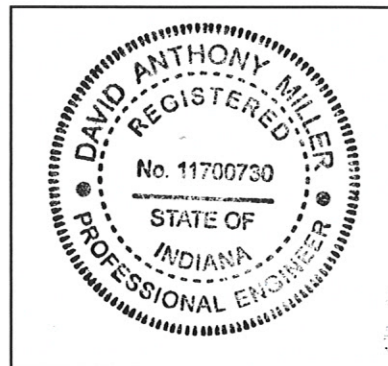
I certify that the selected and above described statistical method is appropriate for evaluating the groundwater monitoring data for the Rockport BAP CCR management area and that the requirements of 40 CFR 257.93(f) have been met.

DAVID ANTHONY MILLER

Printed Name of Licensed Professional Engineer

David Anthony Miller

Signature



11700730

License Number

INDIANA

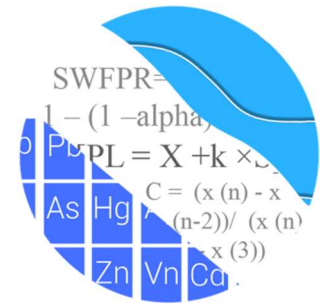
Licensing State

10.14.19

Date

ATTACHMENT B
Statistical Analysis Output

GROUNDWATER STATS CONSULTING



August 12, 2019

Geosyntec Consultants
Attn: Ms. Allison Kreinberg
941 Chatham Lane, #103
Columbus, OH 43221

Re: Rockport Bottom Ash Pond
Assessment Monitoring Event 2019

Dear Ms. Kreinberg,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of background groundwater data for American Electric Power Inc.'s Rockport Bottom Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

Sampling began at the site for the CCR program in 2016. The monitoring well network, as provided by Geosyntec Consultants, consists of the following:

- **Upgradient wells:** MW-1600D, MW-1600I, MW-1600S, MW-1601D, MW-1601I, MW-1601S; MW-1701S, MW-1702D, MW-1702I, MW-1702S, MW-1701D, and MW-1701I
- **Downgradient wells:** MW-1002, MW-1602D, MW-1602I, MW-1603D, MW-1603I, MW-1603S, MW-1604D, MW-1604I, MW-1604S, MW-1605D, MW-1605I, MW-1605S, MW-1606D, MW-1606I, and MW-1606S

Data were sent electronically and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting. The statistical analysis was conducted according to the January 2018 screening evaluation prepared by GSC and approved by

Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to GSC.

The CCR program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS;
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium.

Time series and box plots for Appendix III and IV parameters are provided for all wells and constituents; and are used to evaluate concentrations over the entire record (Figures A and B). The background screening was conducted on all wells during January 2018, except for the 1700 series wells which were added to the monitoring well network and approved for use as background wells during 2018.

Data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were submitted with the background screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

Tukey's box plot method was used during the screening evaluations to identify outliers which were flagged in the database and deselected prior to construction of statistical limits. A summary of all previously flagged outliers identified during the background screening follows this letter (Figure C).

No seasonal patterns were apparent on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used during the background screening to evaluate all Appendix III data at each well to identify statistically significant increasing or decreasing trends. The results of those findings were submitted with the screening

evaluation. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. All of the trends identified during the screening were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Prediction Limit Summary - Appendix III Parameters

As a result of the background screening, interwell prediction limits were constructed using all screened upgradient well data, combined with a 1-of-2 verification strategy for boron, chloride, fluoride, sulfate and TDS (Figure D). Intrawell limits combined with a 1-of-3 verification strategy were constructed using screened background data through July 2017 for calcium and pH (Figure E). Note that the upgradient 1700 series wells do not yet have the recommended minimum 8 background samples and, therefore, intrawell prediction limits were not included for these wells.

Prediction limits were constructed based on the following:

Number of Sample Events Per Year: 2
Interwell Prediction Limits and 1-of-2 Resamples
Intrawell Prediction Limits and 1-of-3 Resamples
Number of Analytes: 7
Number of Downgradient Wells: 15

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample, and the 1-of-3 resample plan allows up to 2 resamples, to determine whether the initial exceedance is confirmed. When the resamples confirm the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered a false positive result and, therefore, no further action is necessary.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Several exceedances were noted for the Appendix III parameters. The results of those findings may be found in the Prediction Limit Summary tables following this letter.

The Sen's Slope/Mann-Kendall trend test is performed on all well/constituent pairs found to exceed their respective prediction limit to determine whether concentrations are increasing, decreasing or stabilizing. Upgradient wells are included in the trend tests to determine whether similar patterns exist both upgradient and downgradient of the facility which would suggest naturally changing groundwater unrelated to practices at the facility. No statistically significant increasing trends were found in any of the wells. One statistically significant decreasing trend was noted for chloride in upgradient well MW-1601S.

Evaluation of Appendix IV Parameters

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage to determine the Alternate Contaminant Level (ACL) (Figure G). The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. These limits were compared to the Maximum Contaminant Levels (MCLs) and Rule Specified Levels (RSLs) in the Groundwater

Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure H).

Confidence intervals were then constructed on downgradient wells for each of the Appendix IV parameters using the highest limit of either the MCL, RSL, or ACL as discussed above (Figure I). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. No confidence intervals exceedances were found for any of the downgradient wells. A summary of the confidence interval results follows this letter.

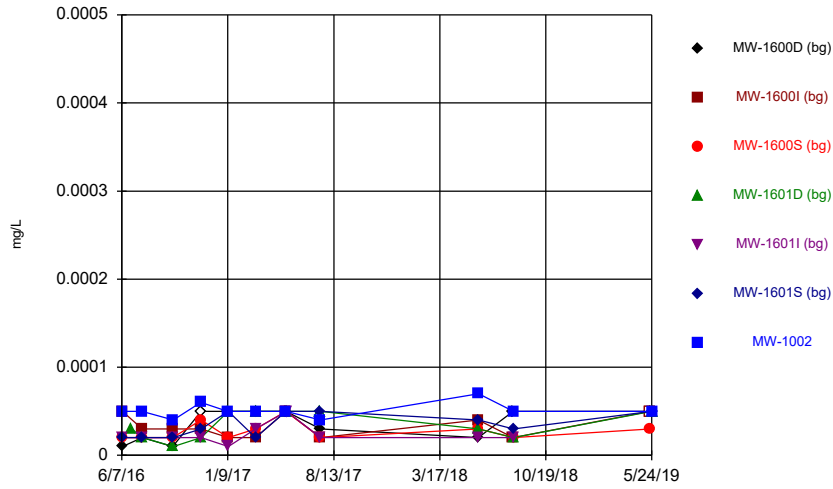
Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Rockport Bottom Ash Pond. If you have any questions or comments, please feel free to contact me.

For Groundwater Stats Consulting,

A handwritten signature in cursive script that reads "Kristina Rayner". The signature is written in black ink and is positioned below the typed name.

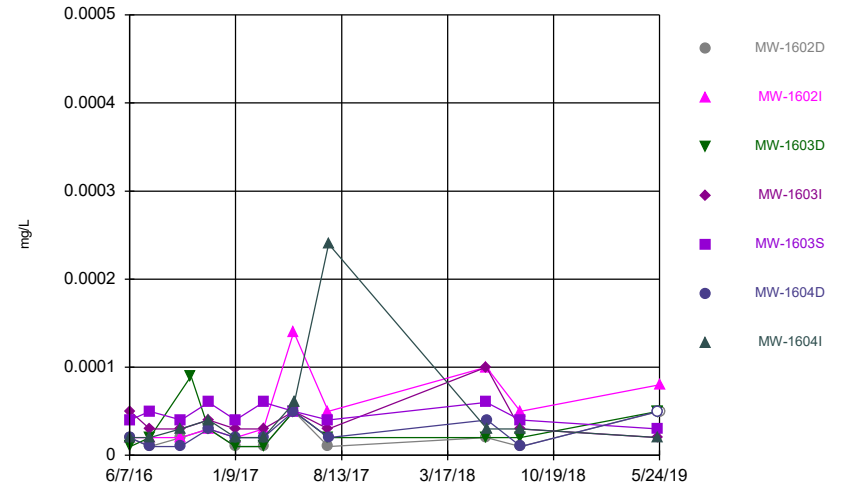
Kristina L. Rayner
Groundwater Statistician

Time Series



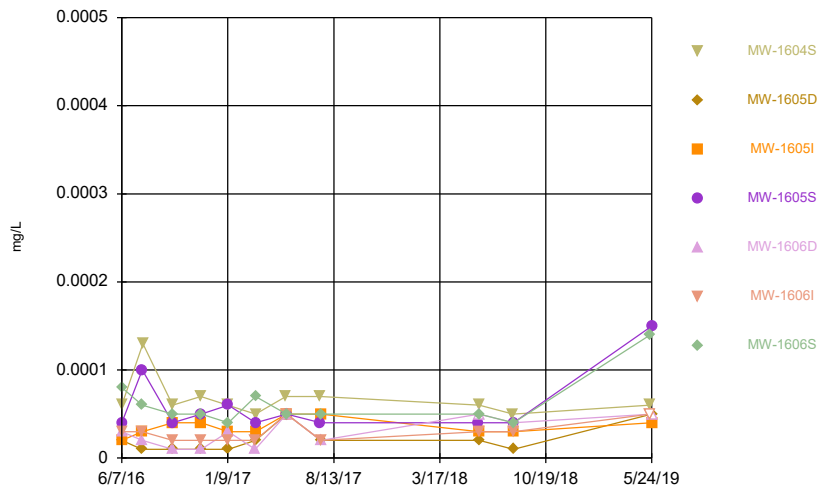
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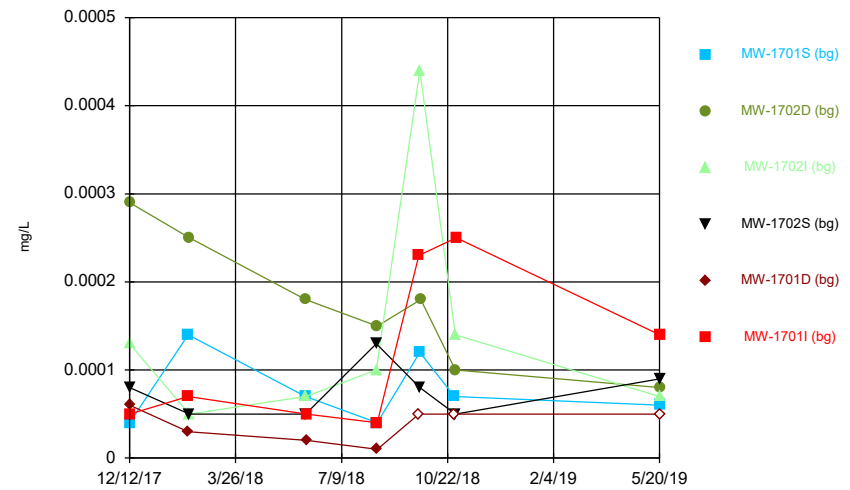
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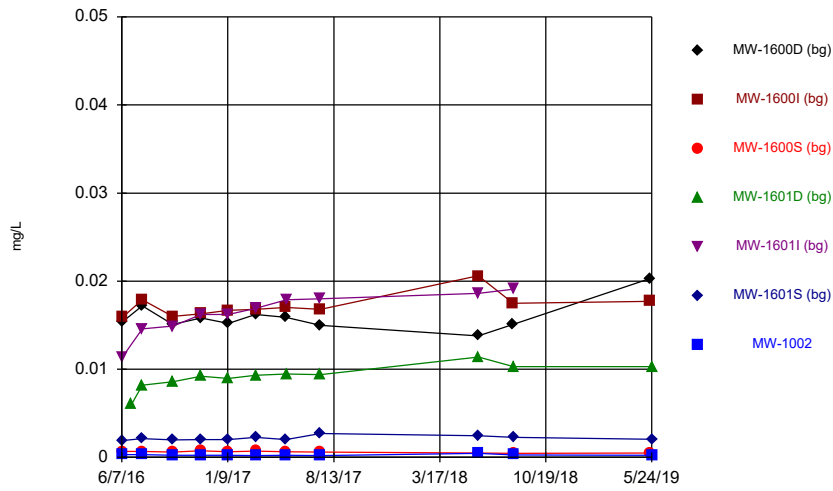
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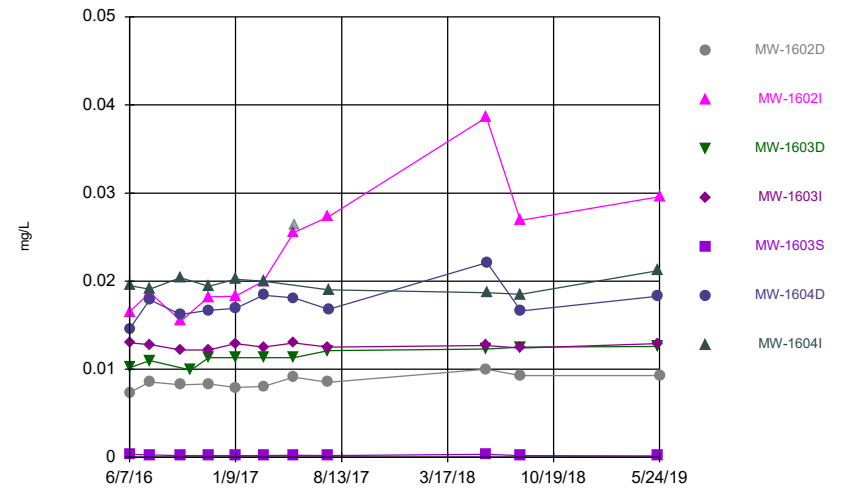
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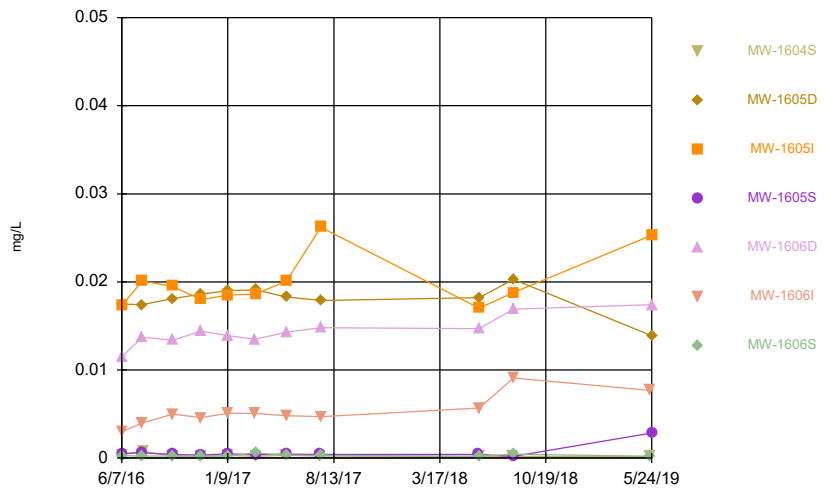
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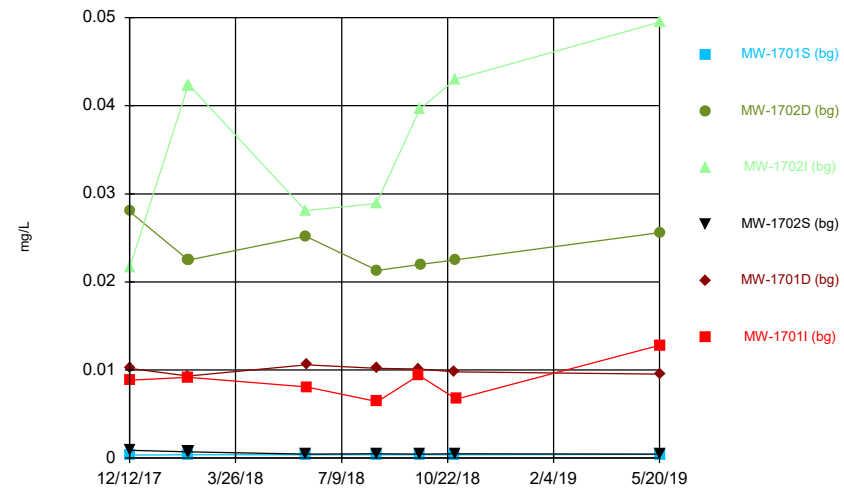
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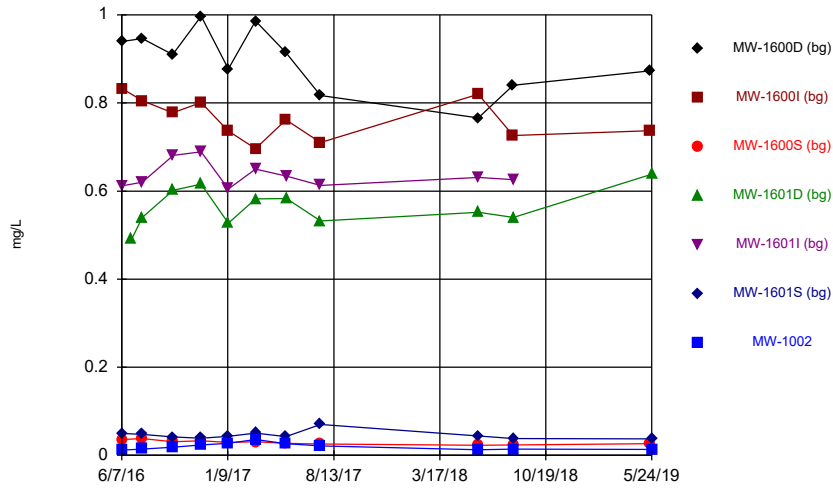
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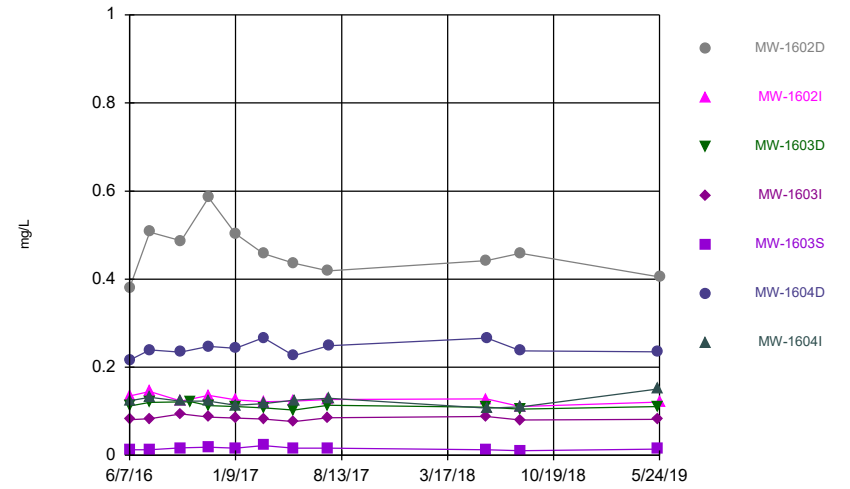
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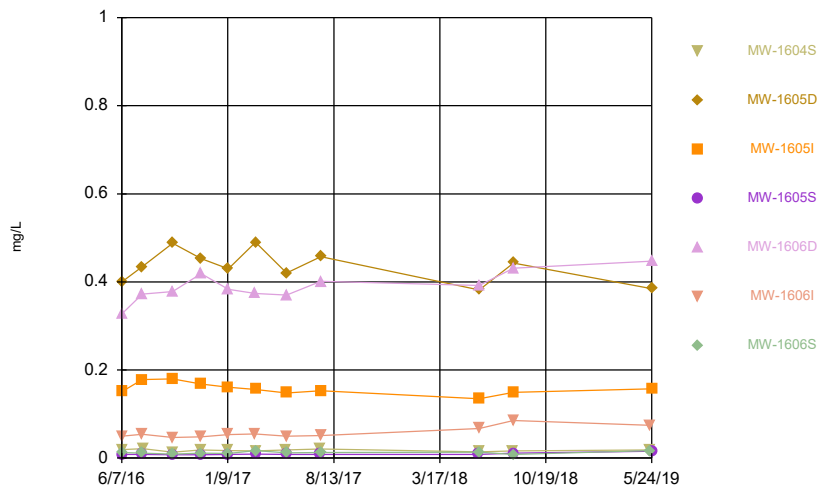
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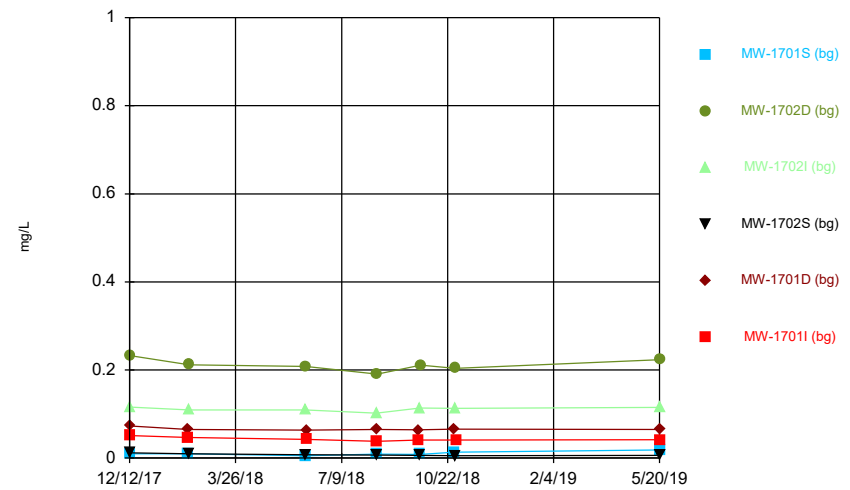
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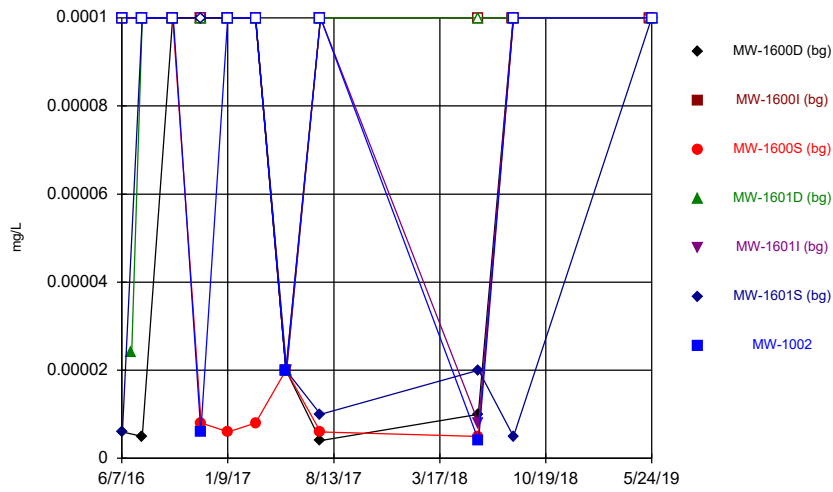
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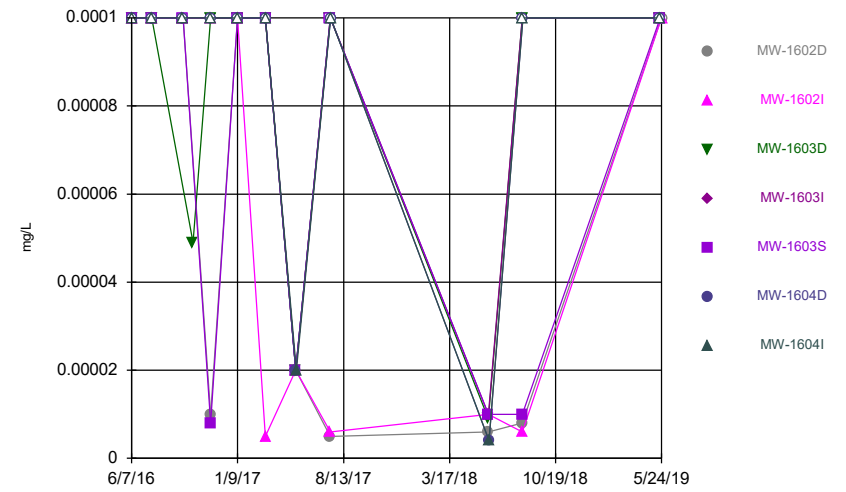
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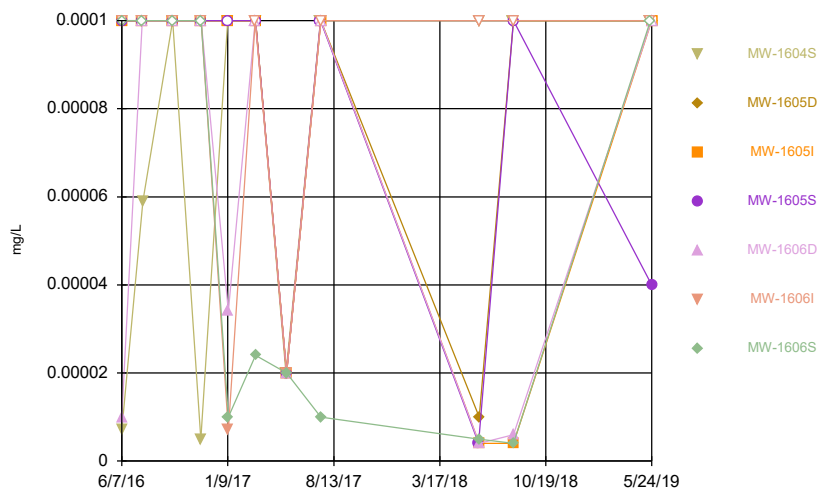
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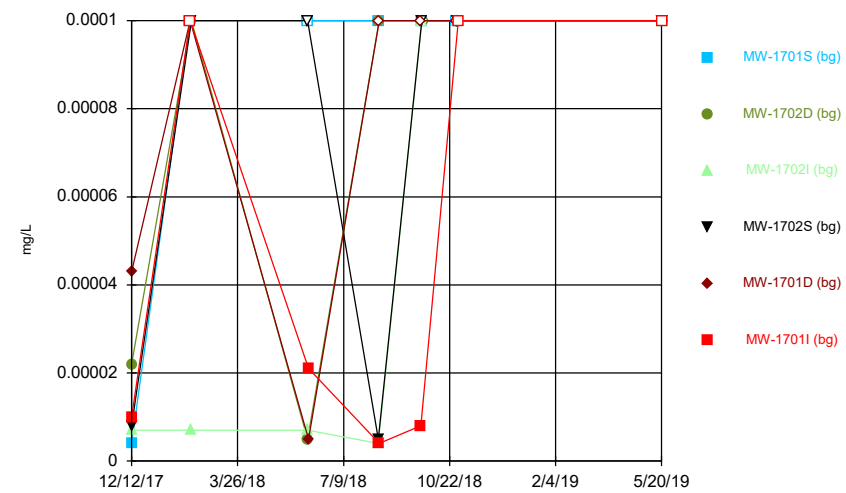
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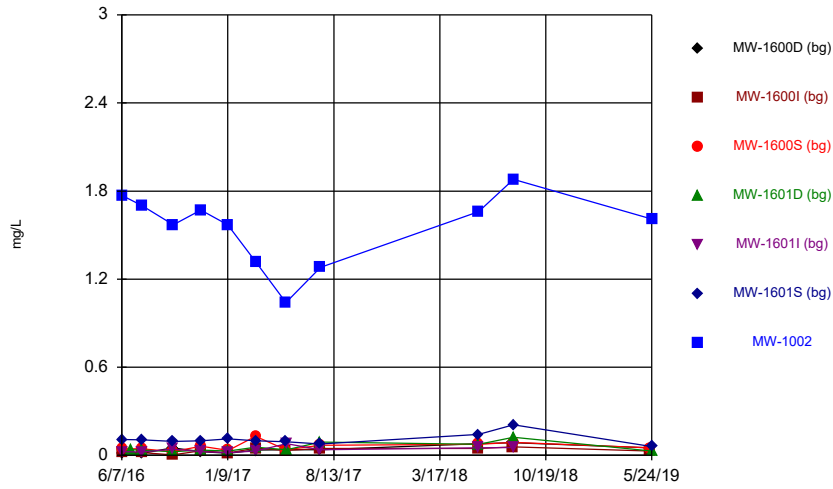
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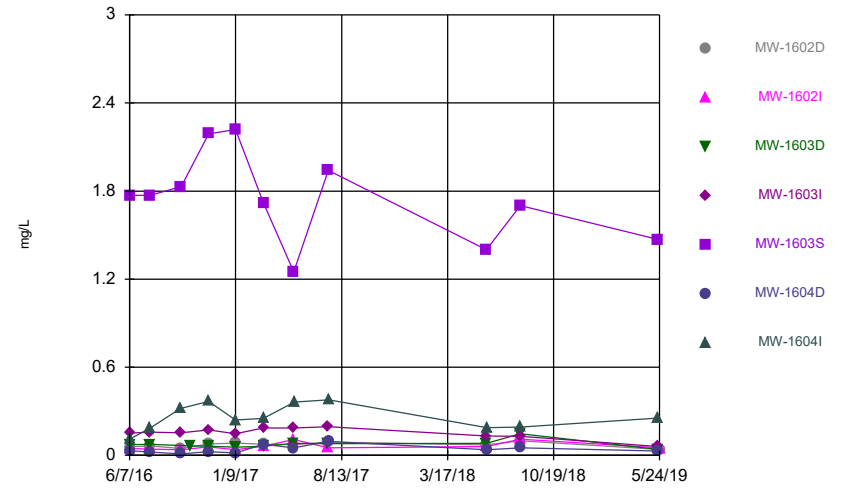
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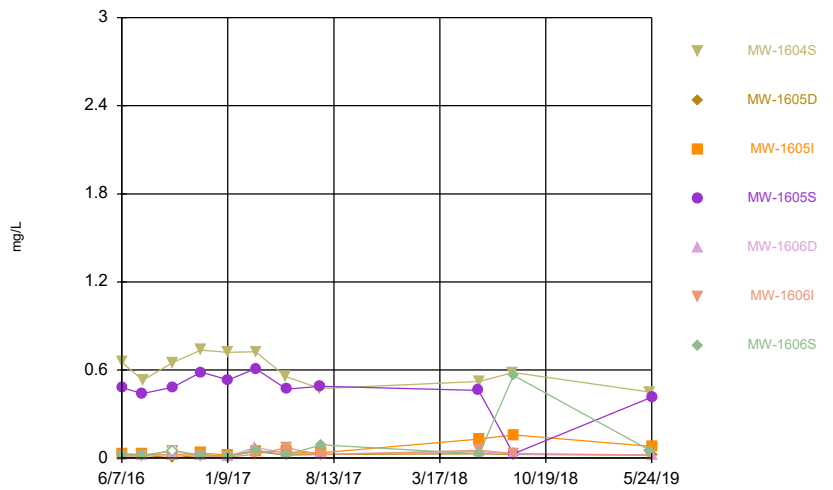
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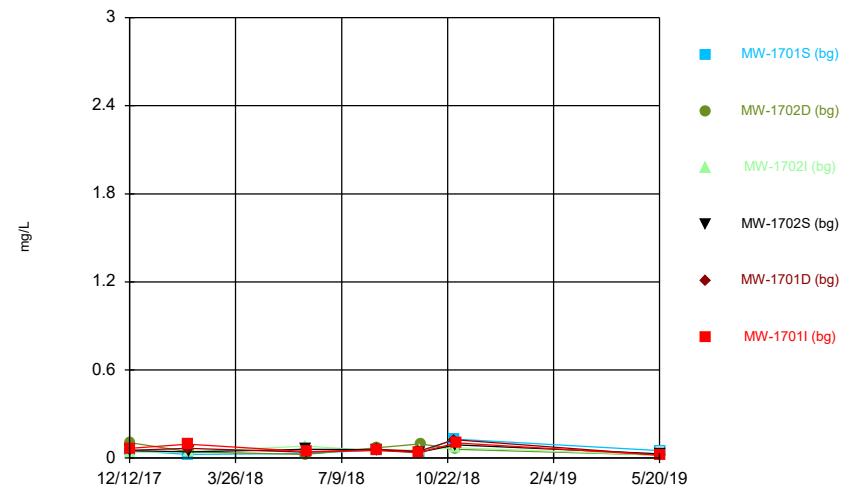
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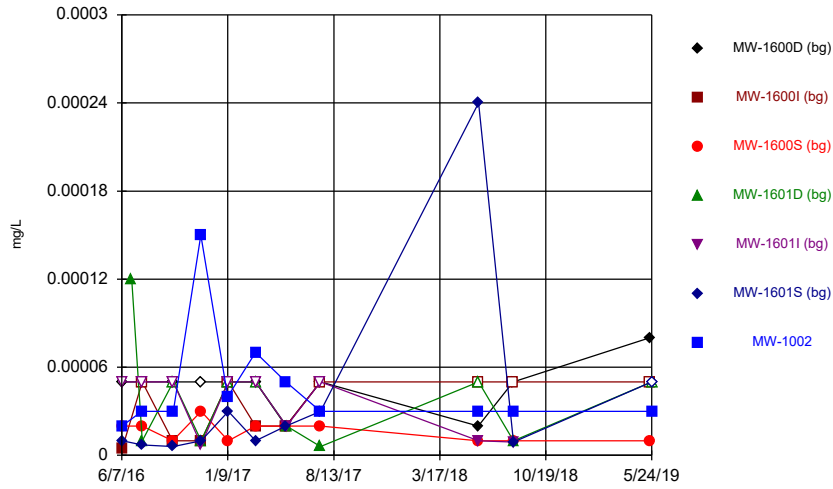
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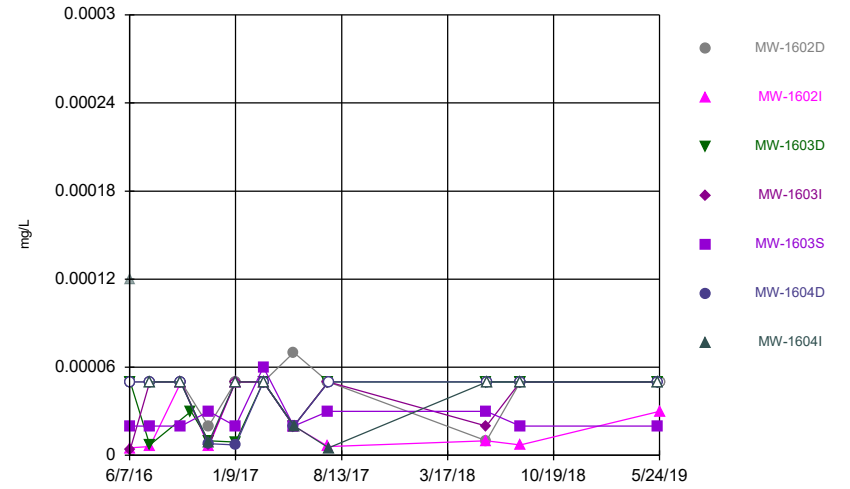
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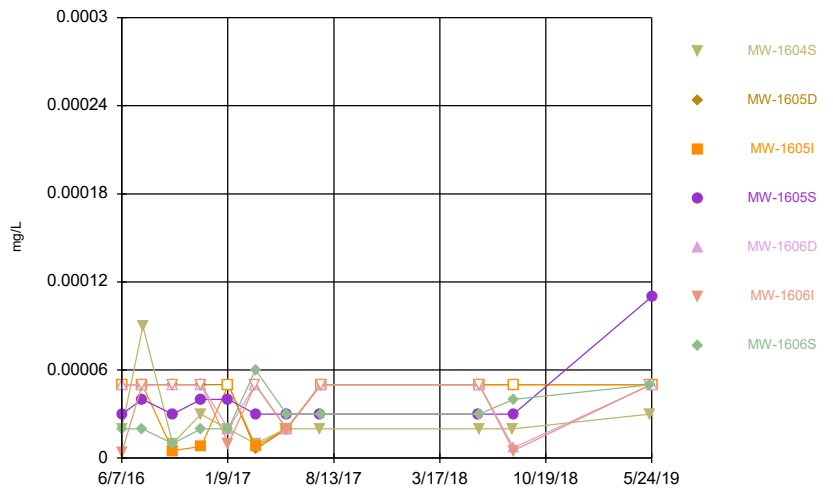
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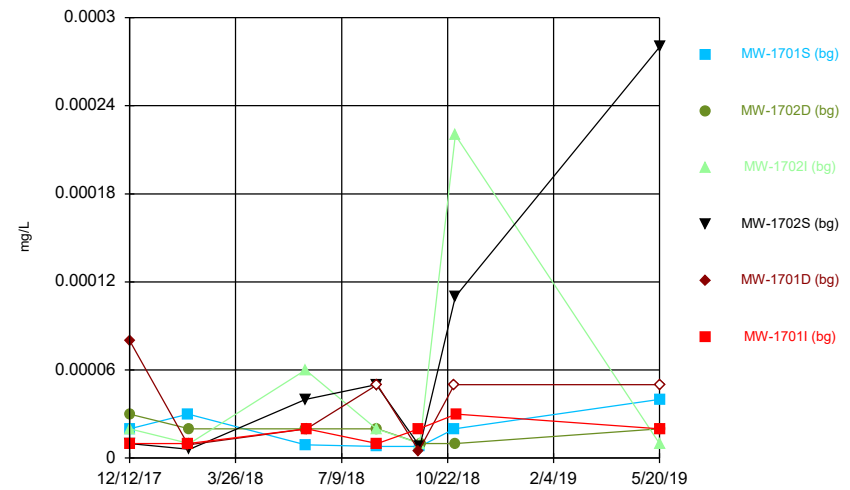
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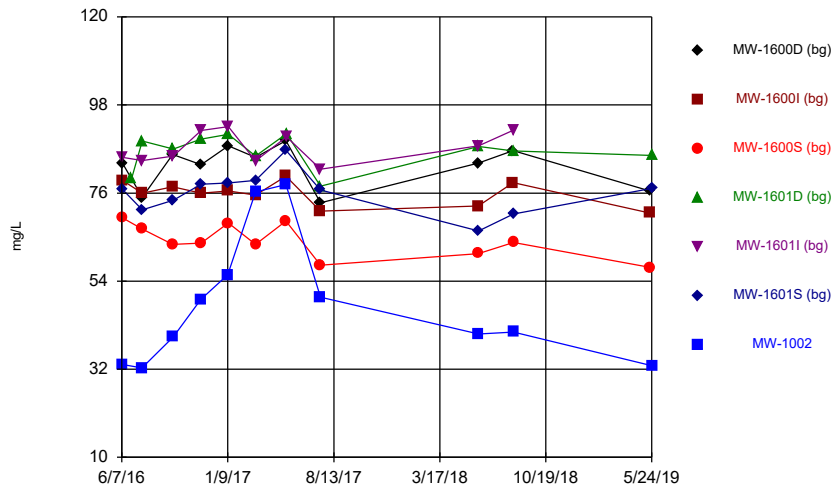
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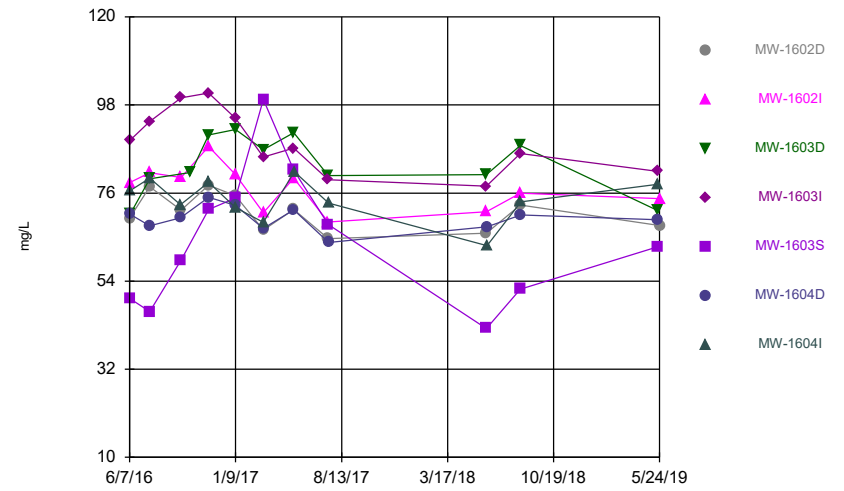
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Time Series



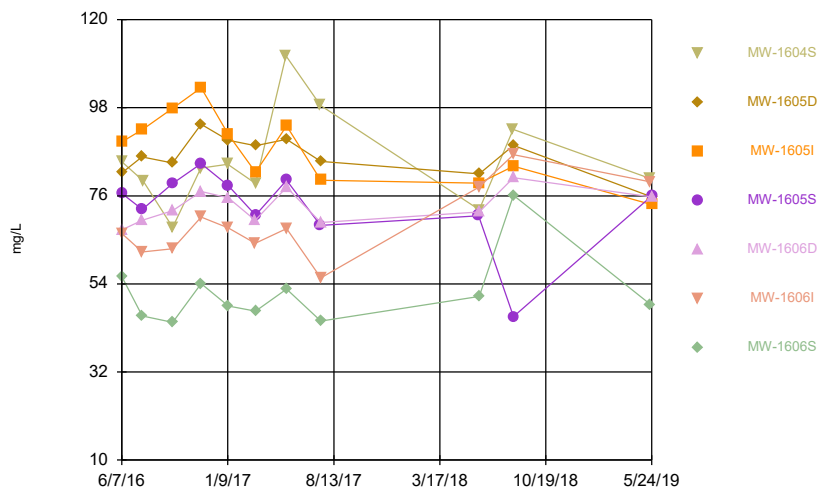
Constituent: Calcium, total Analysis Run 8/10/2019 9:57 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



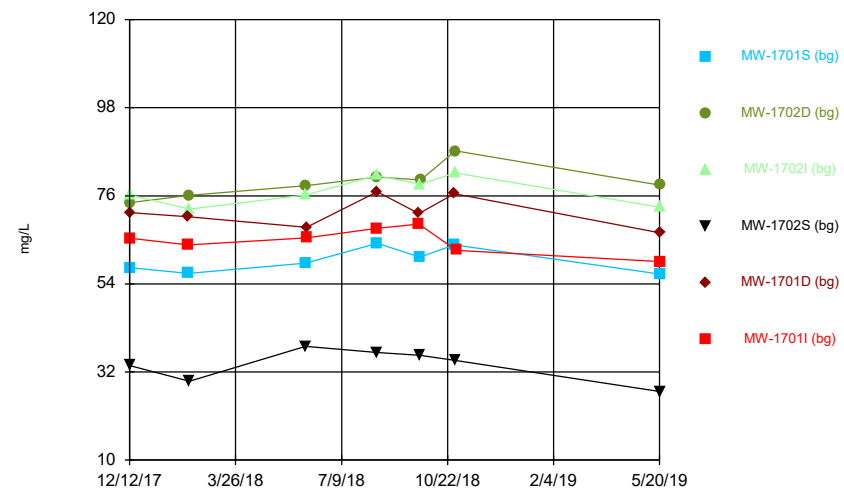
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



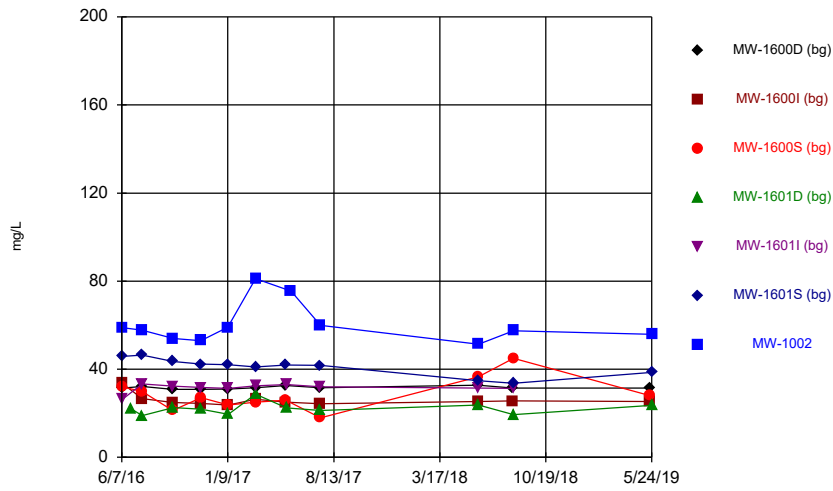
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



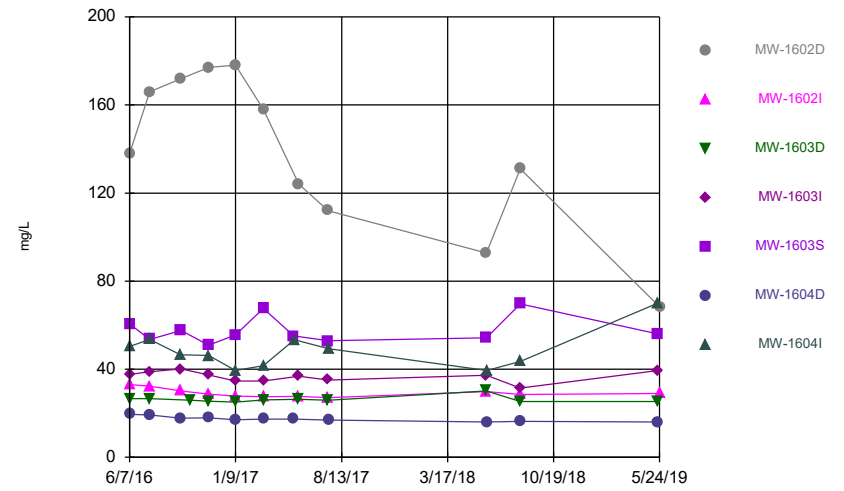
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



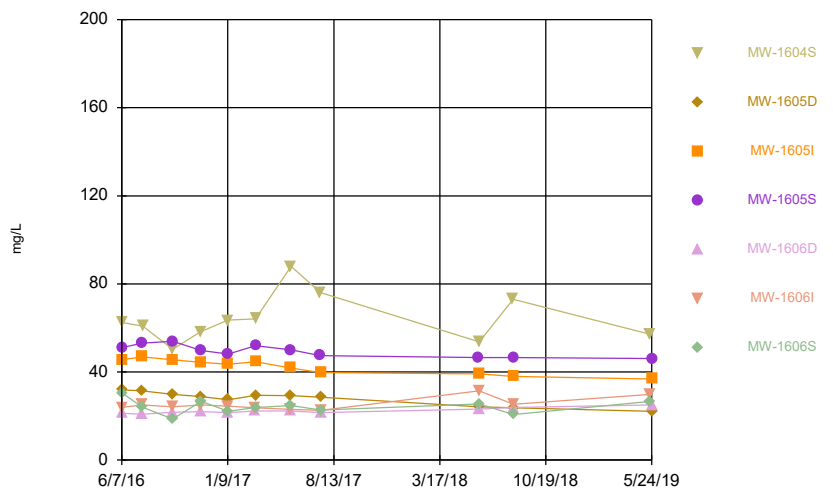
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



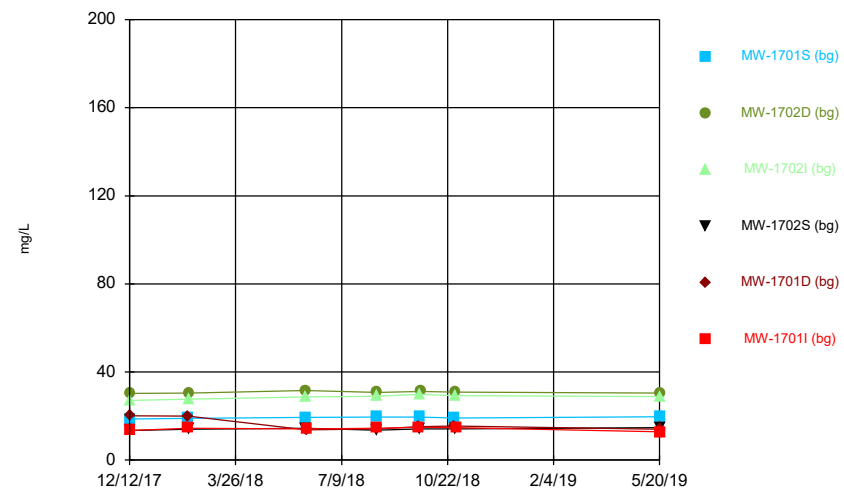
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



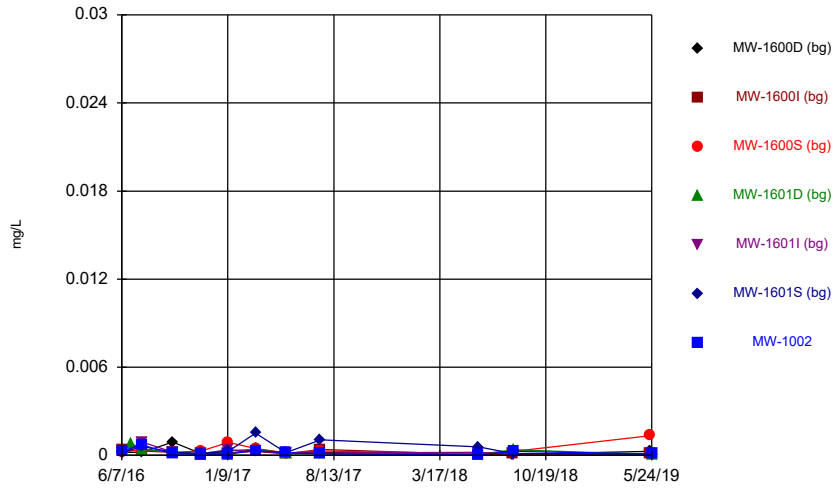
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Time Series



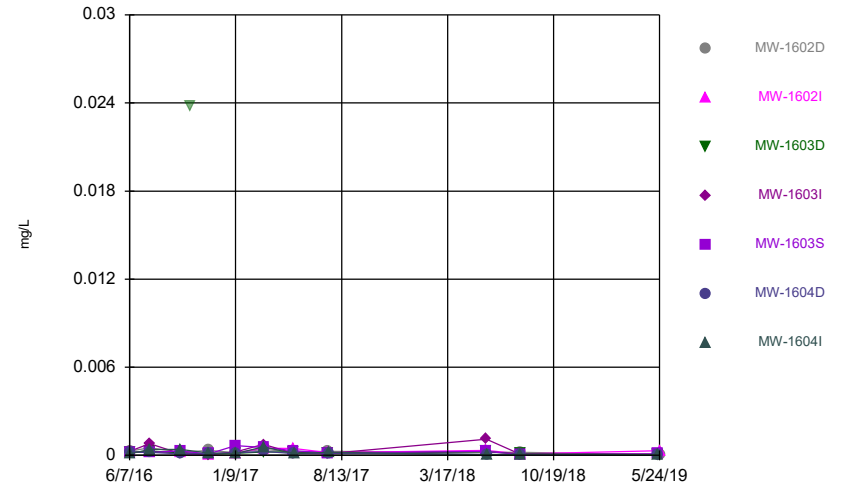
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Time Series



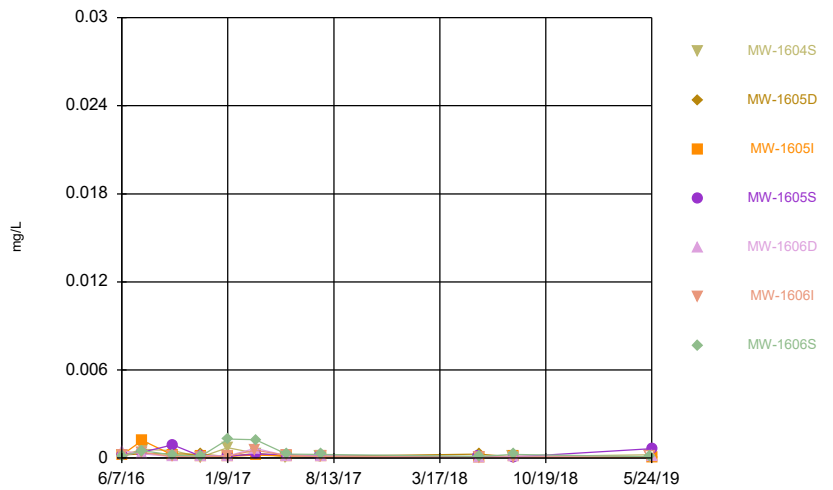
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



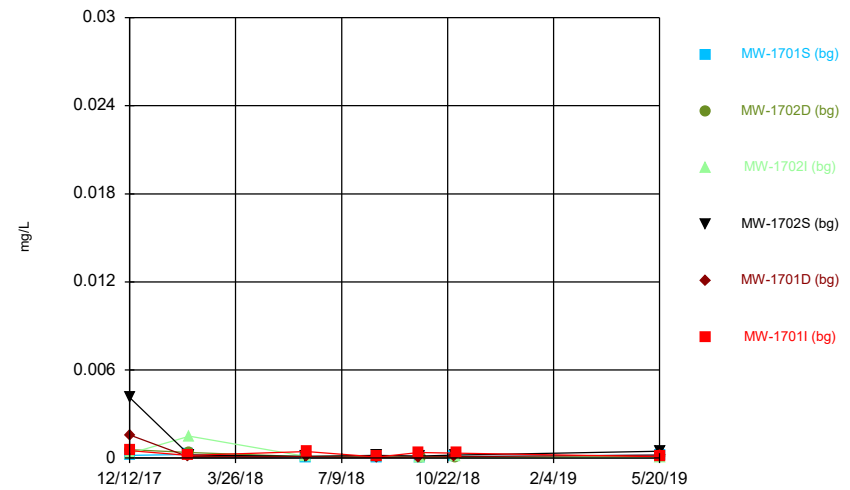
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



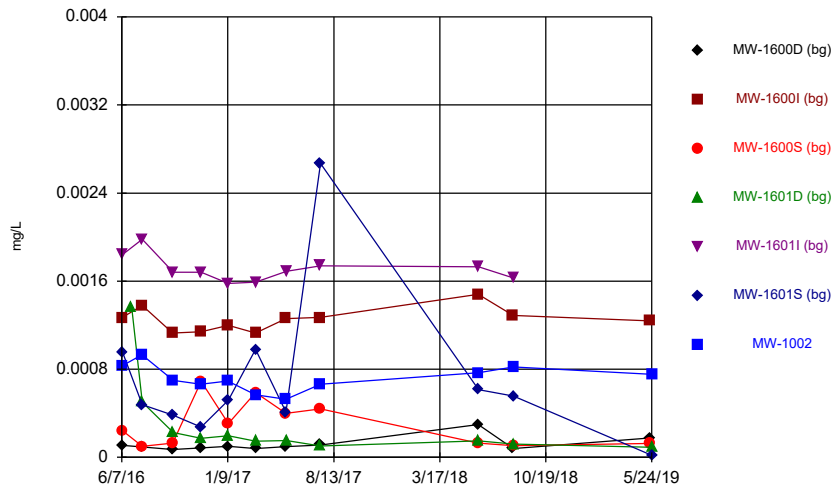
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



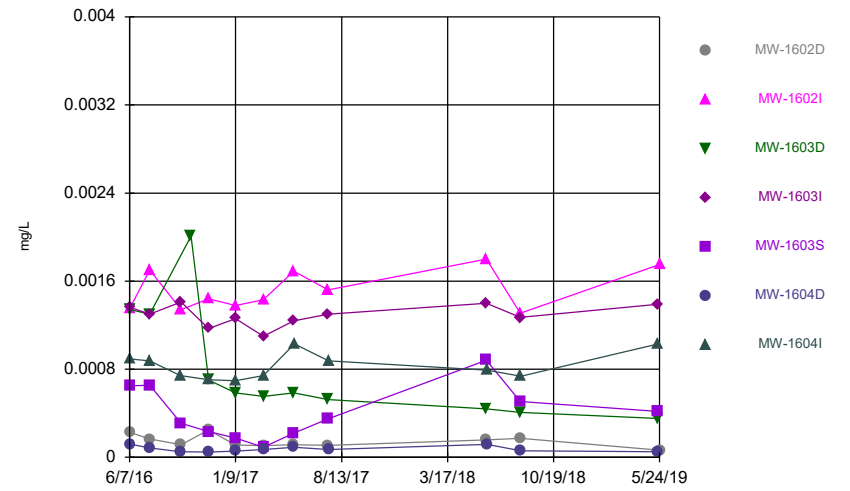
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



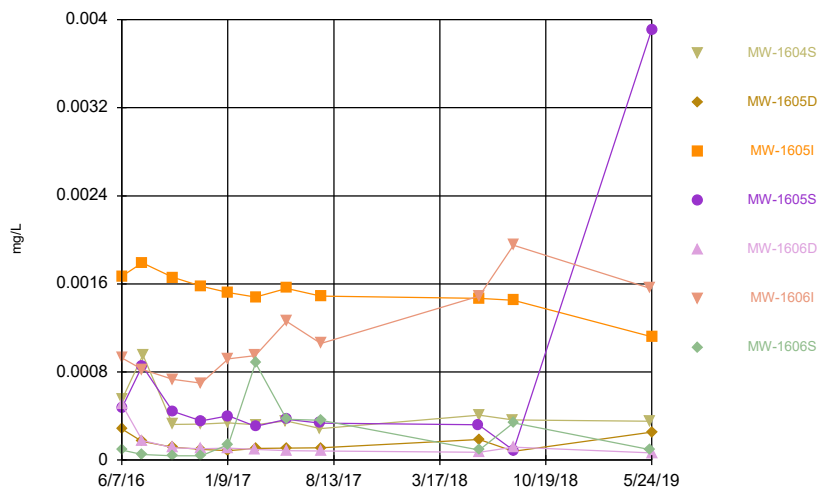
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



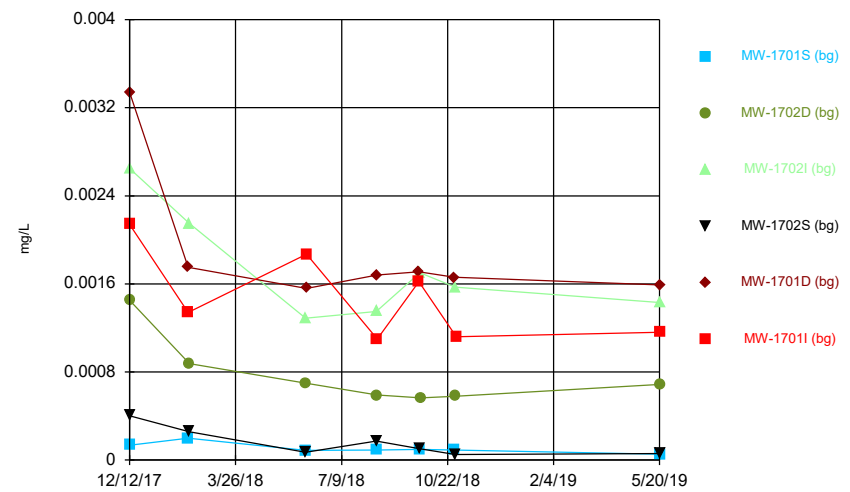
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



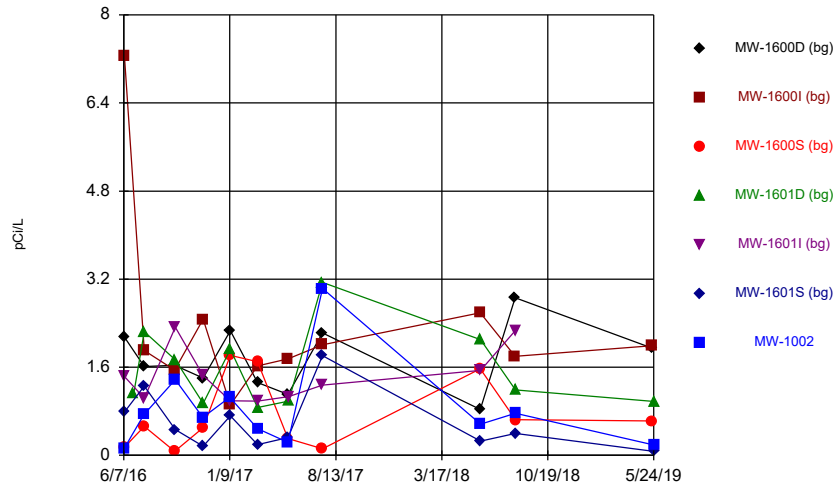
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



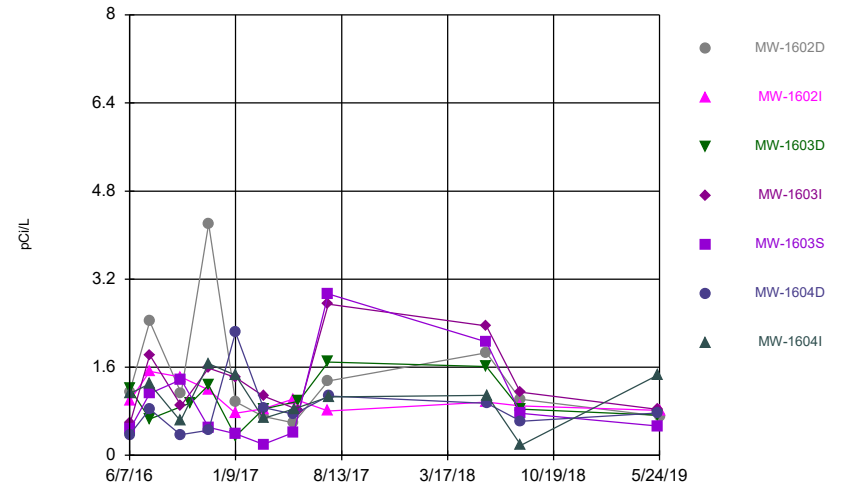
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Time Series



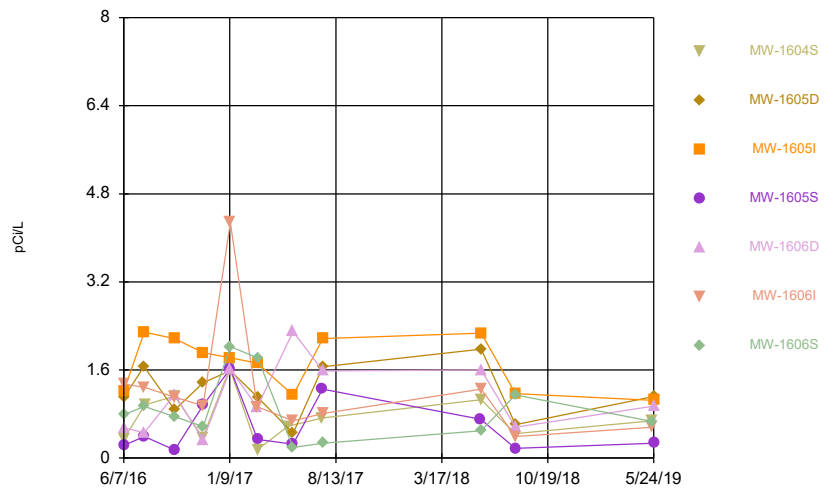
Constituent: Combined Radium 226 + 228 Analysis Run 8/10/2019 9:57 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



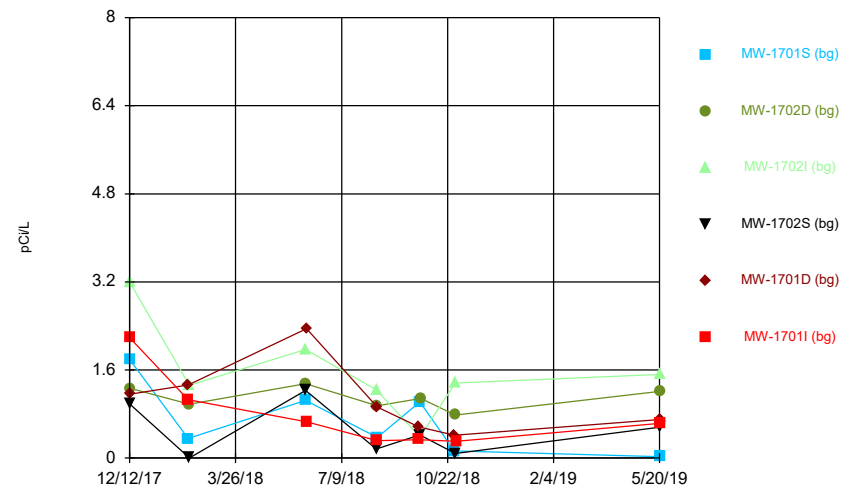
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



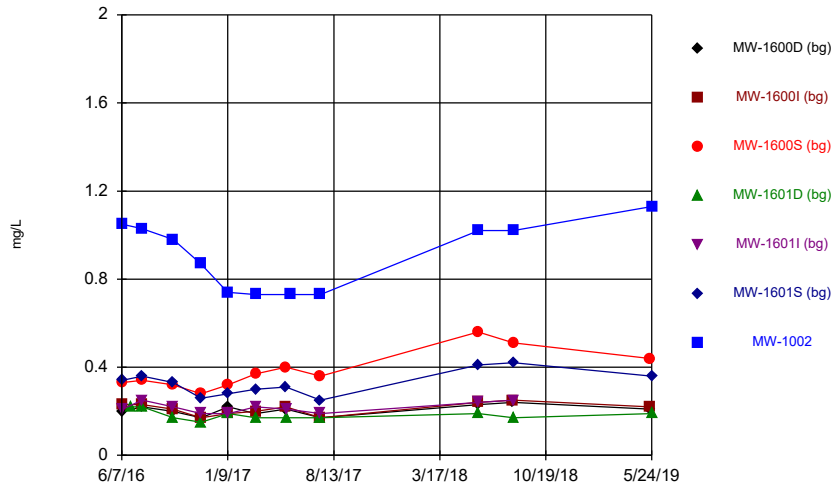
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



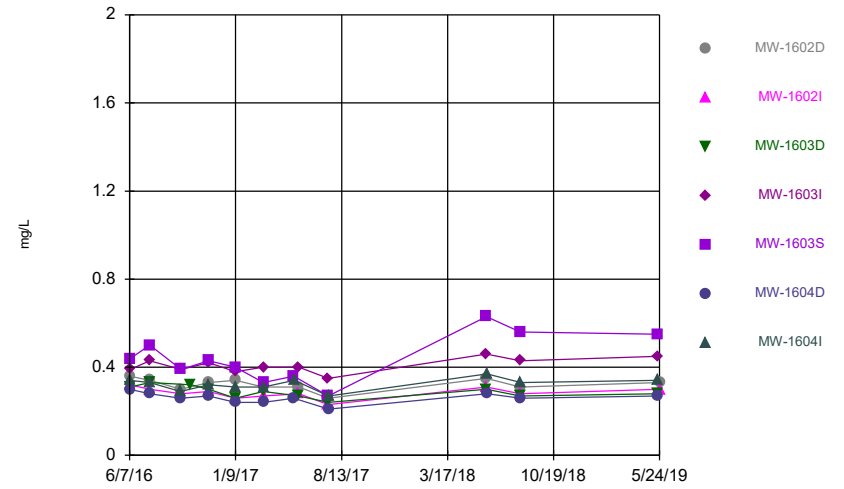
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



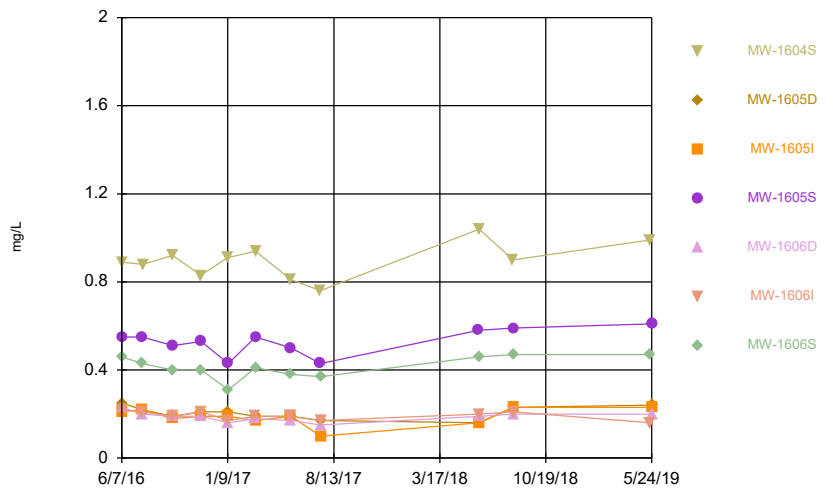
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



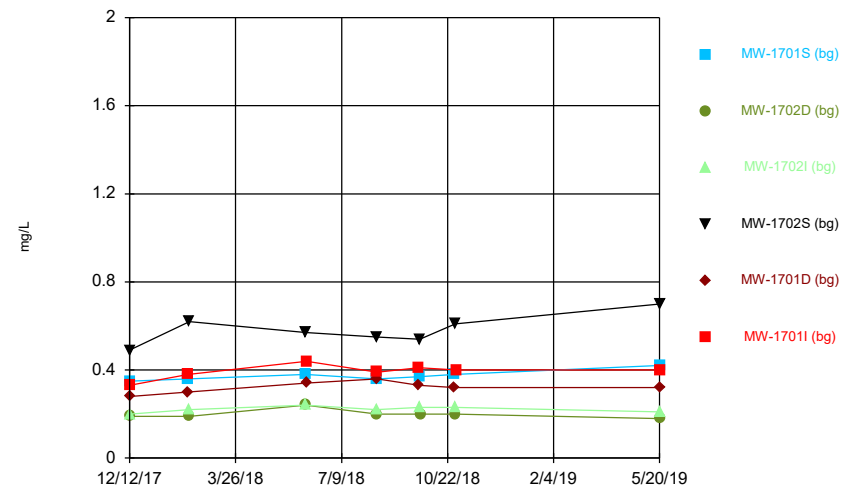
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Time Series



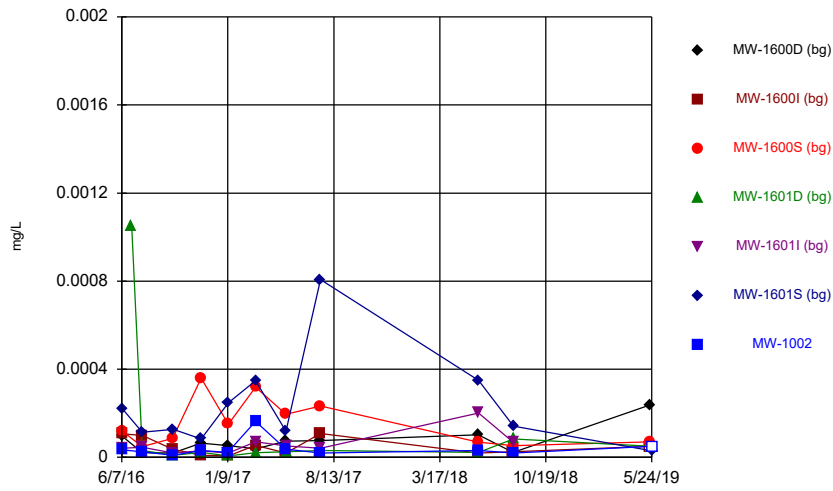
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Time Series



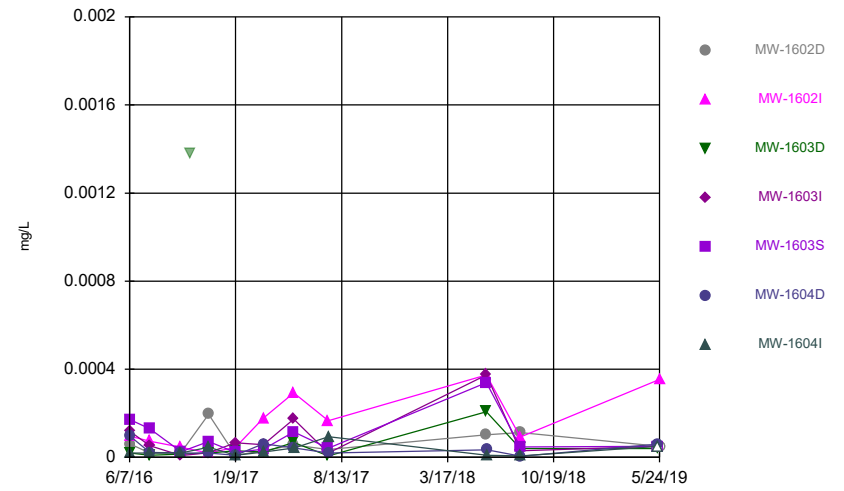
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Time Series



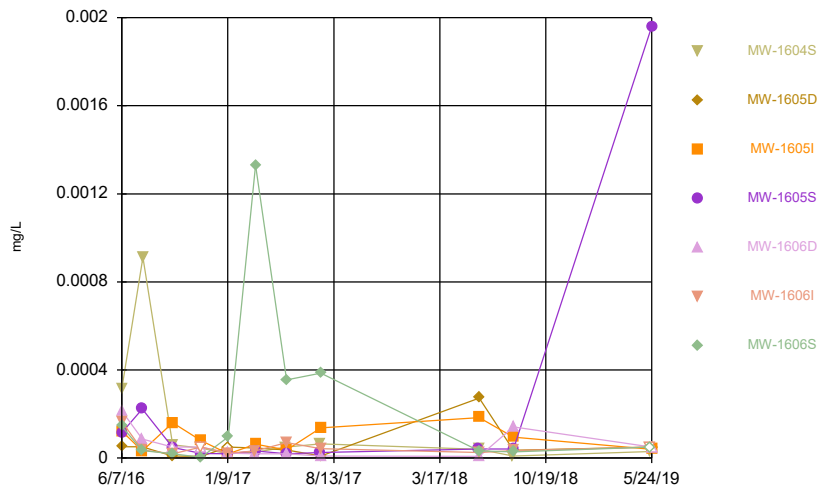
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Time Series



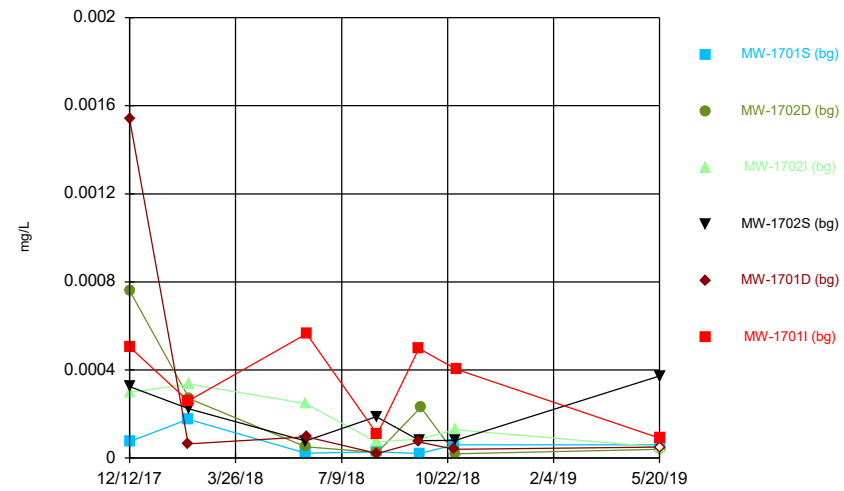
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



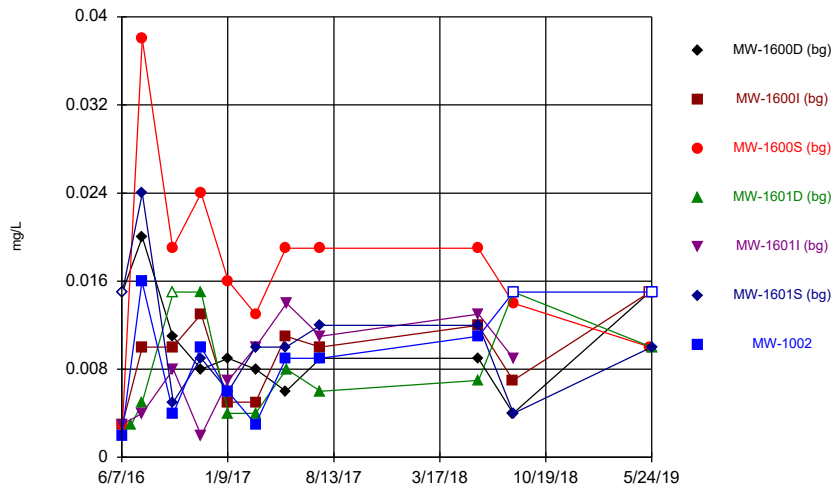
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Time Series



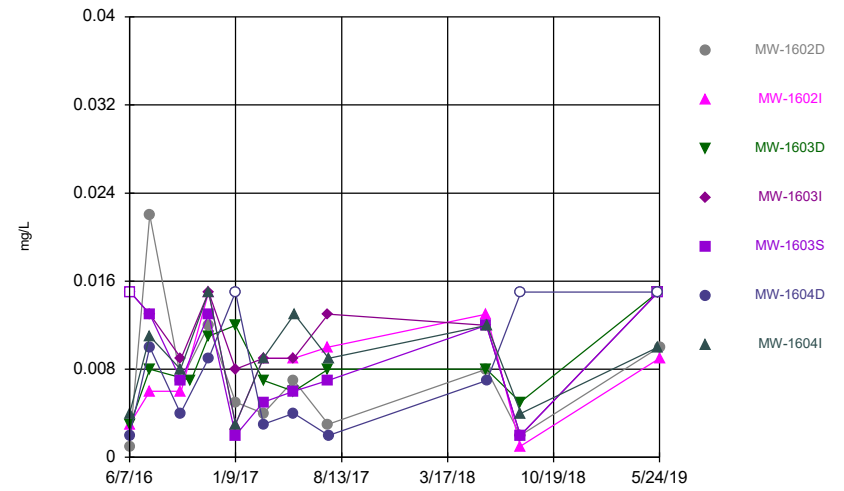
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Time Series



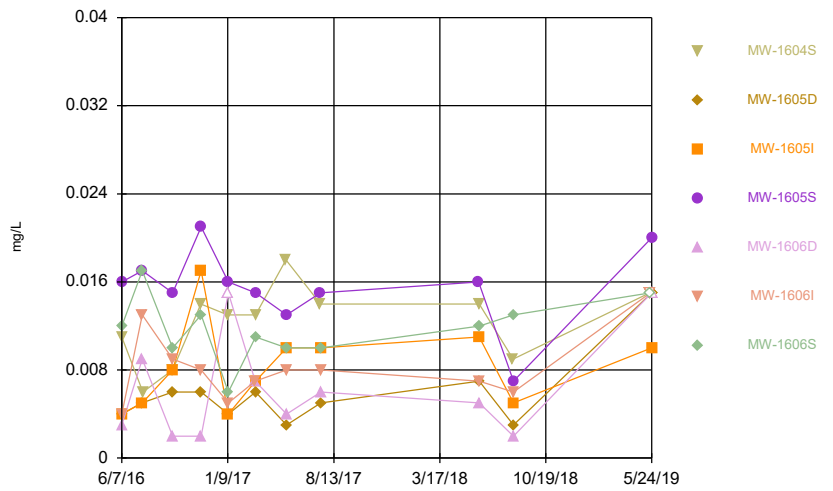
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Time Series



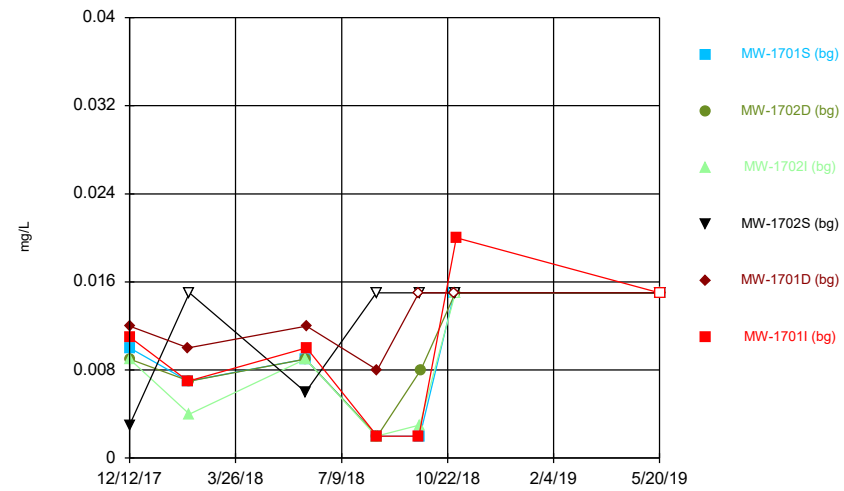
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Time Series



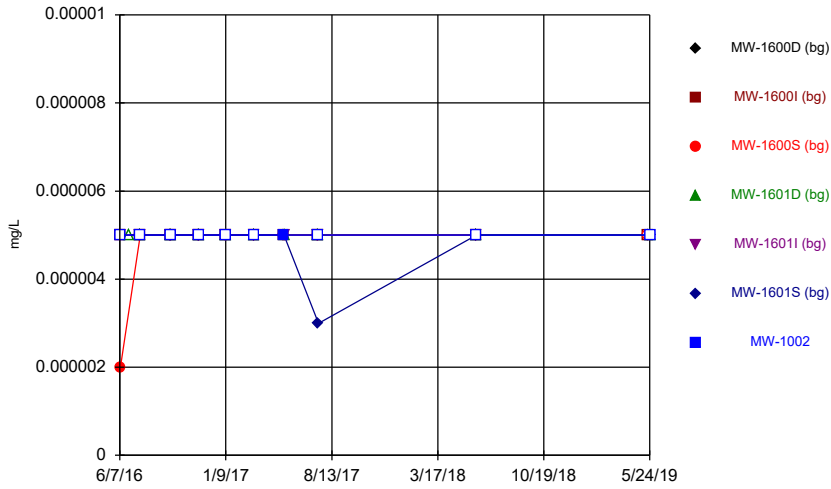
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Time Series



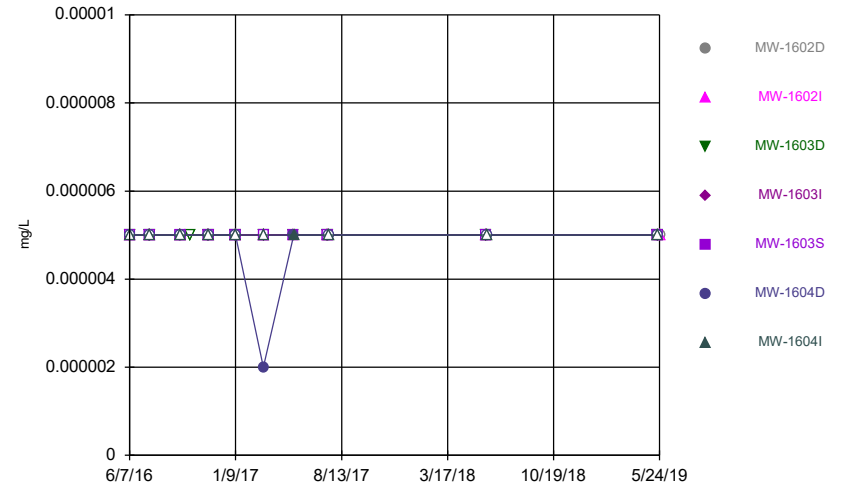
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Time Series



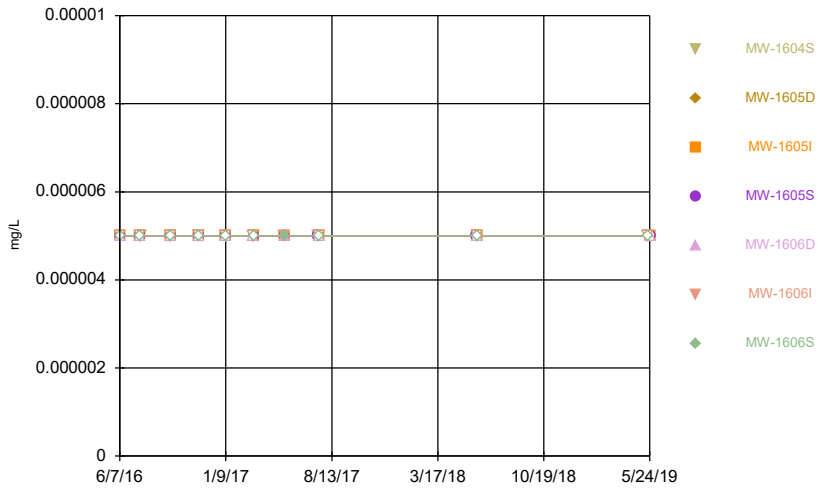
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Time Series



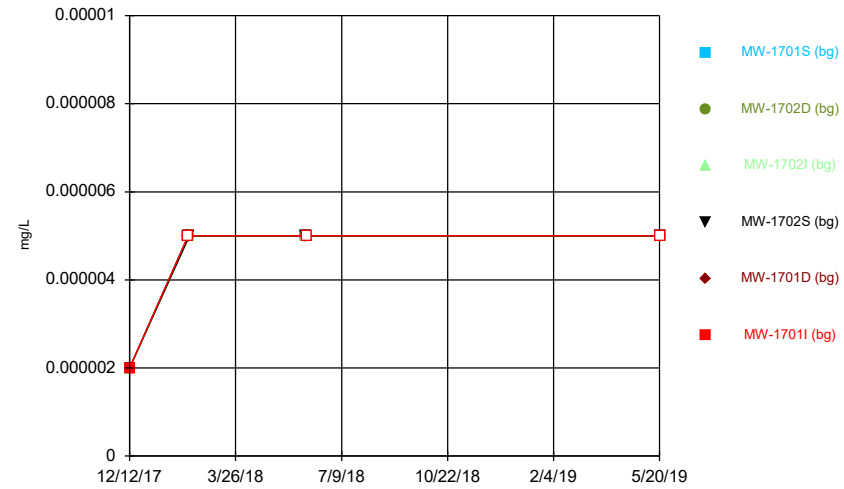
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Time Series



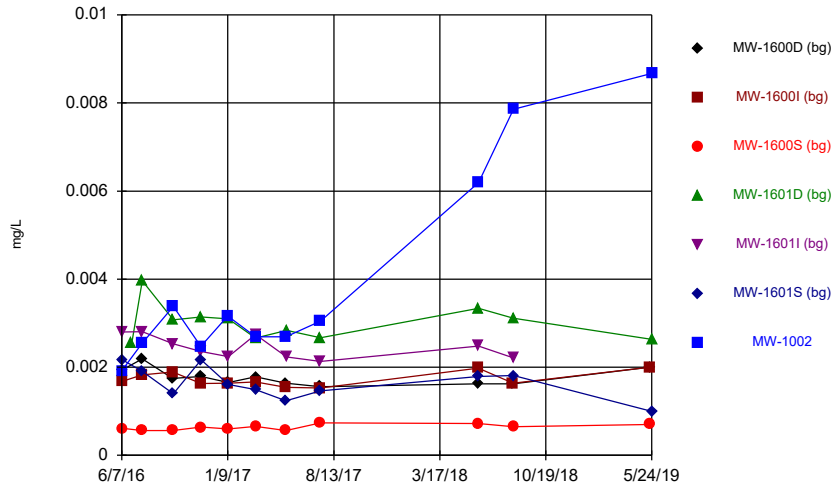
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Time Series



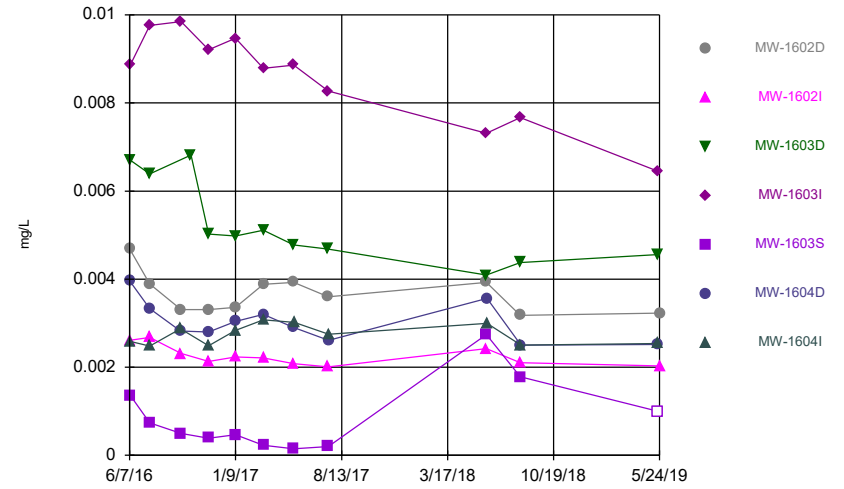
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Time Series



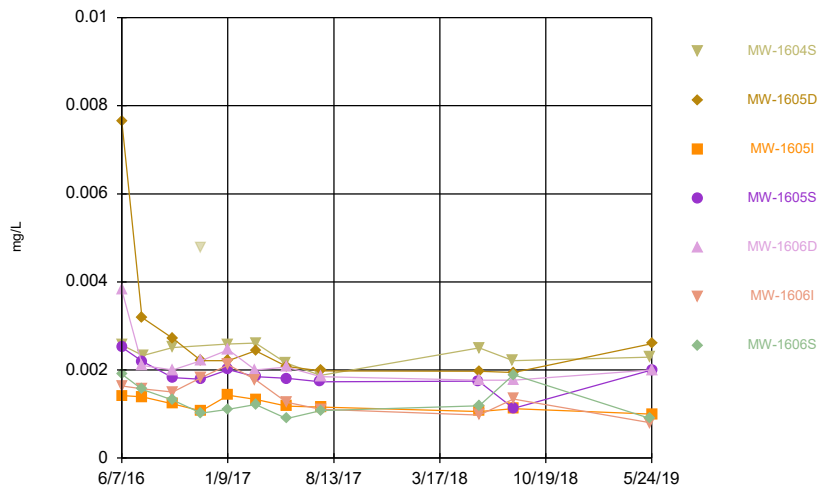
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Time Series



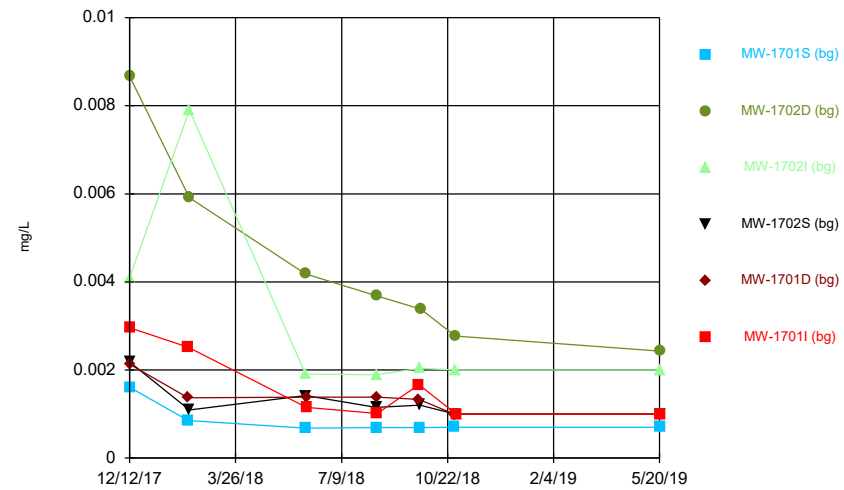
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



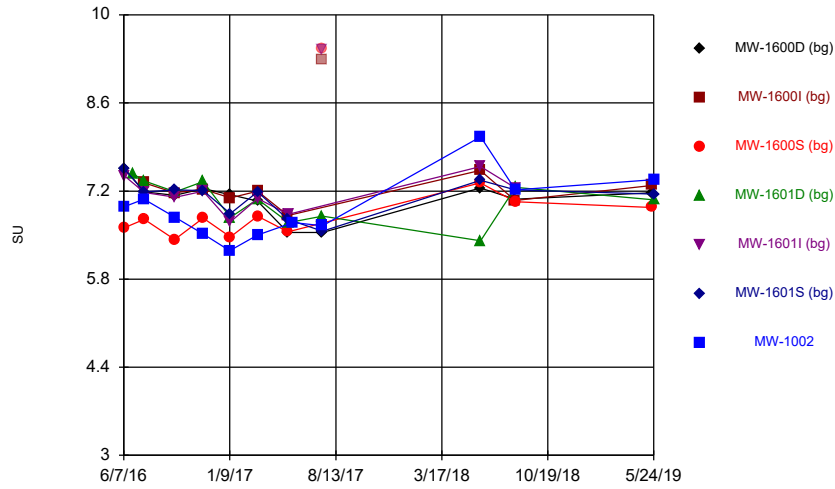
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Time Series



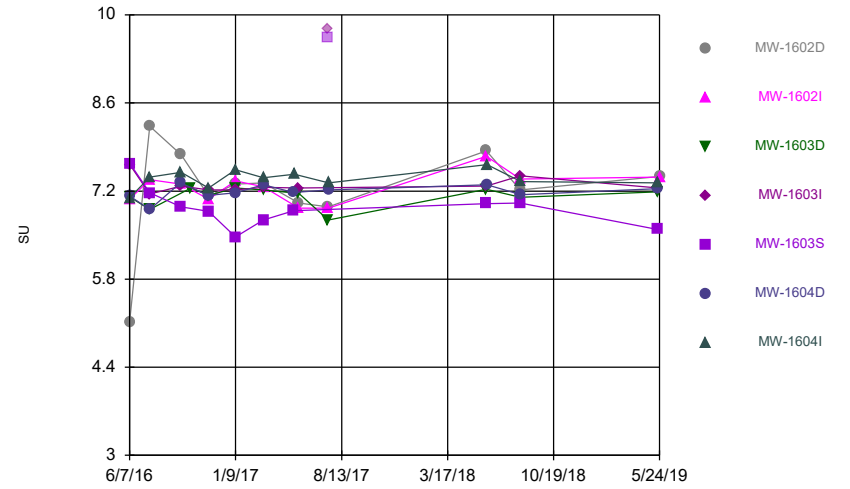
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Time Series



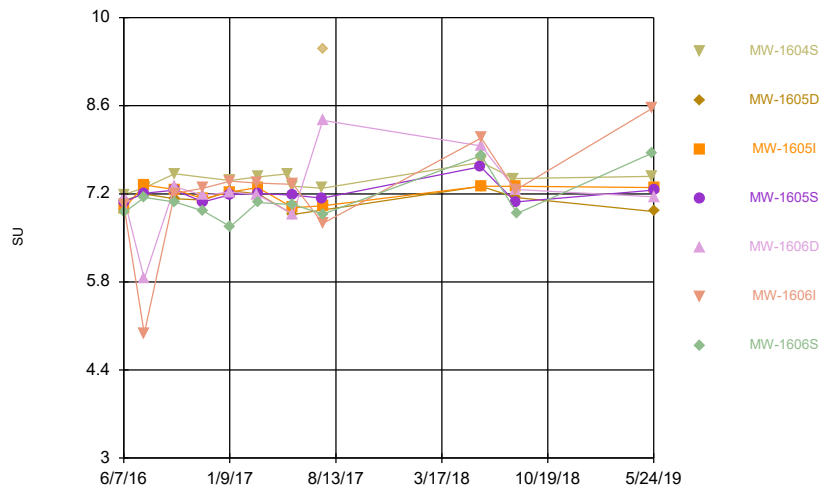
Constituent: pH, field Analysis Run 8/10/2019 9:58 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



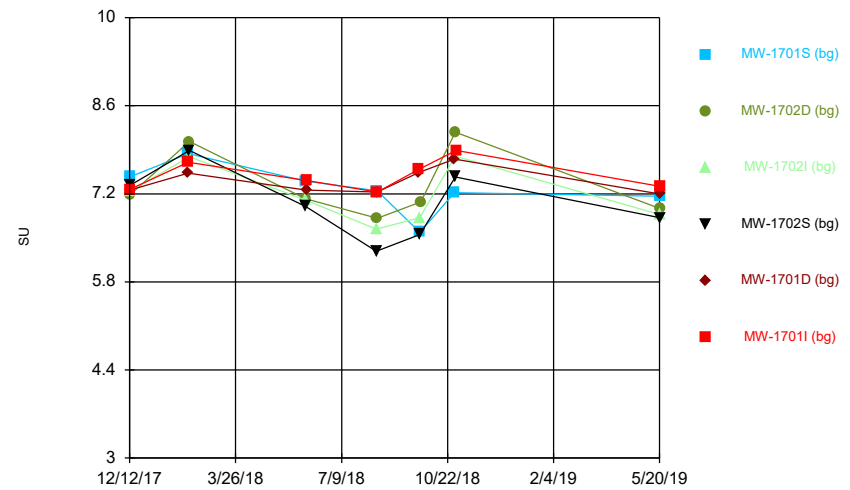
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Time Series



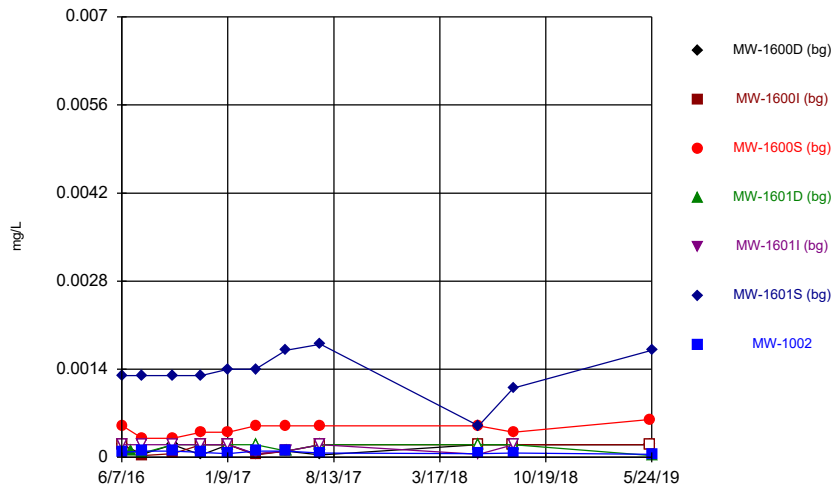
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Time Series



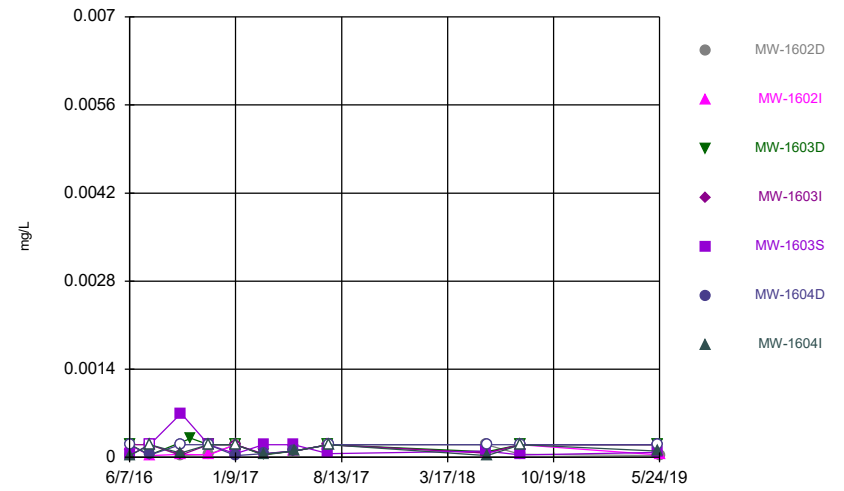
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



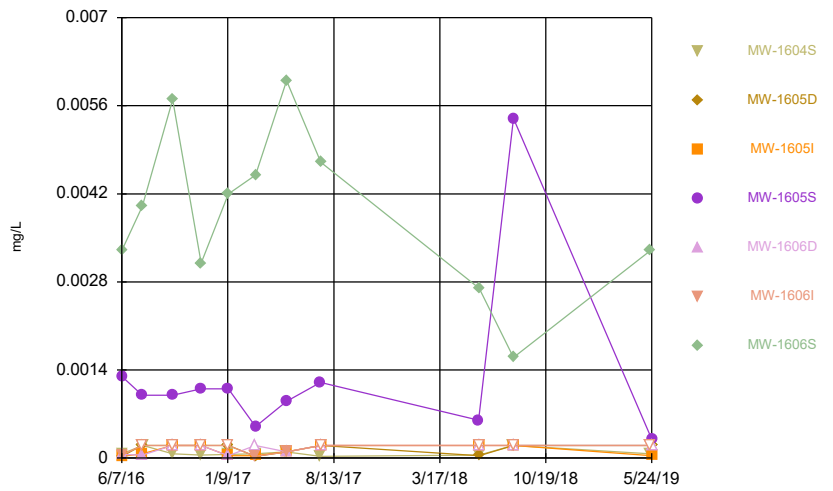
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Time Series



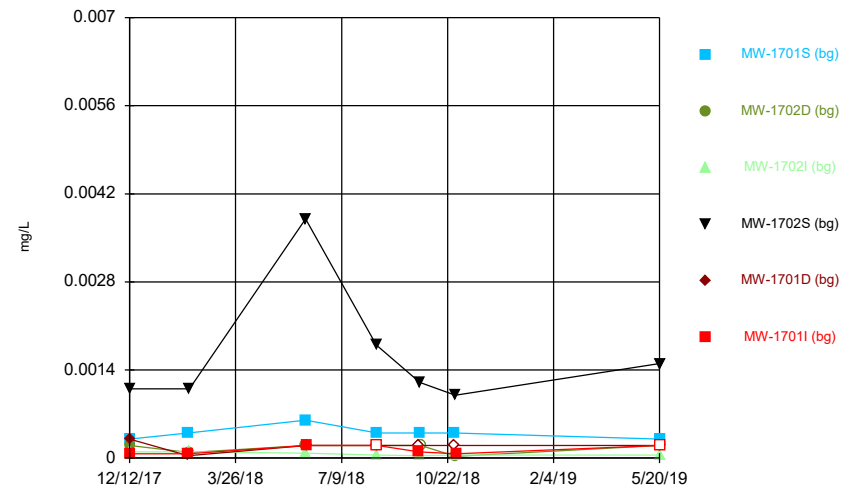
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Time Series



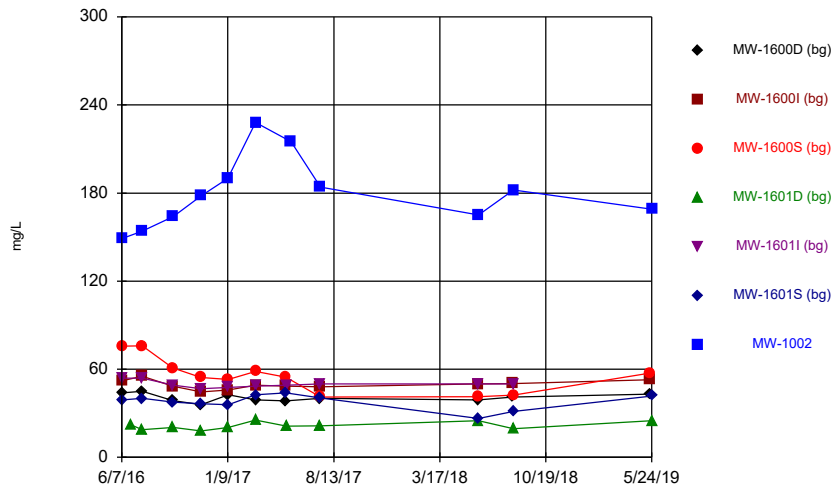
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Time Series



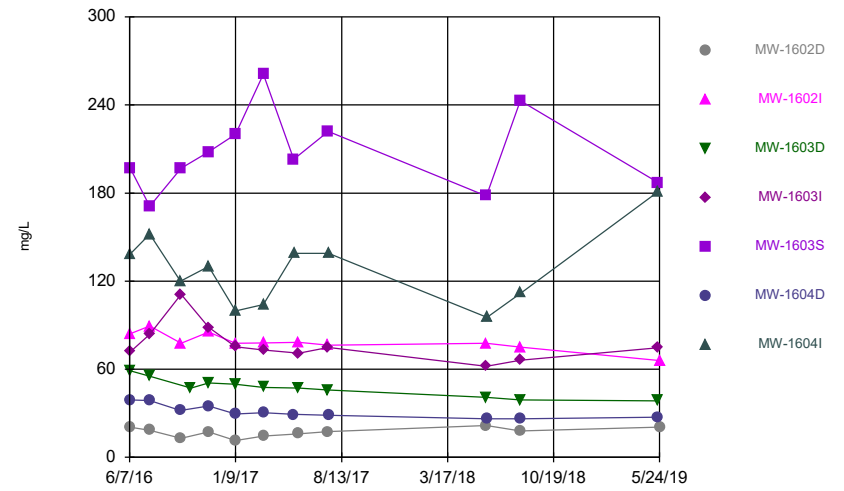
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Time Series



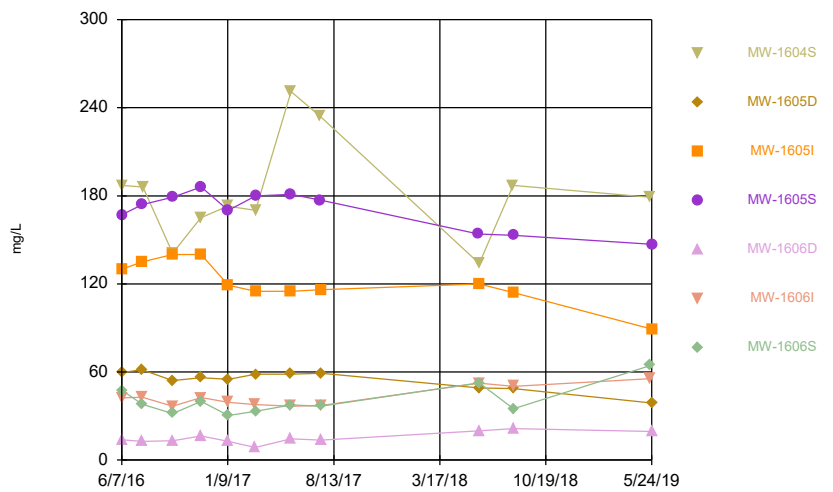
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Time Series



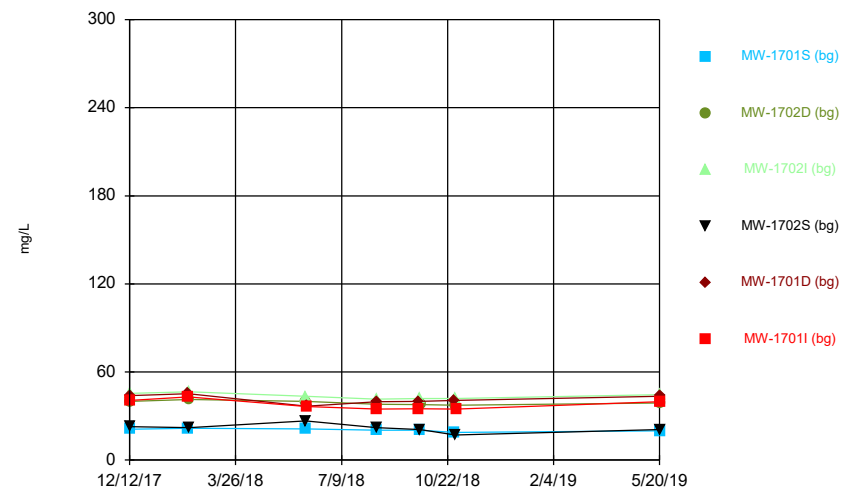
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Time Series



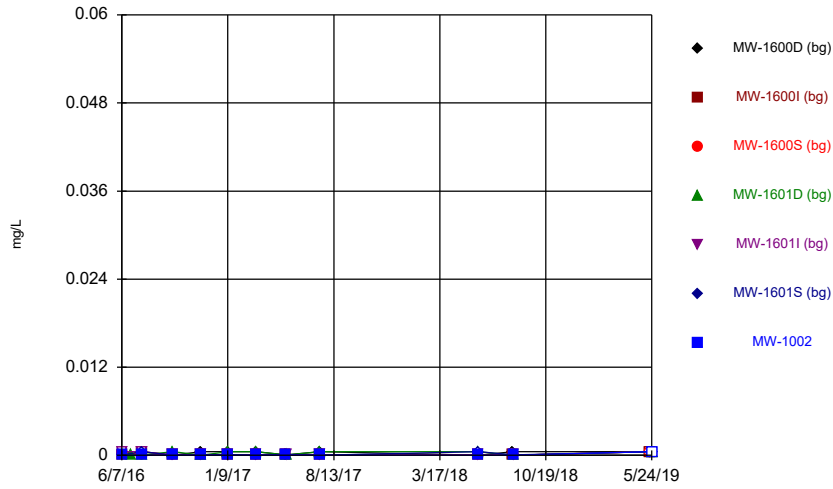
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Time Series



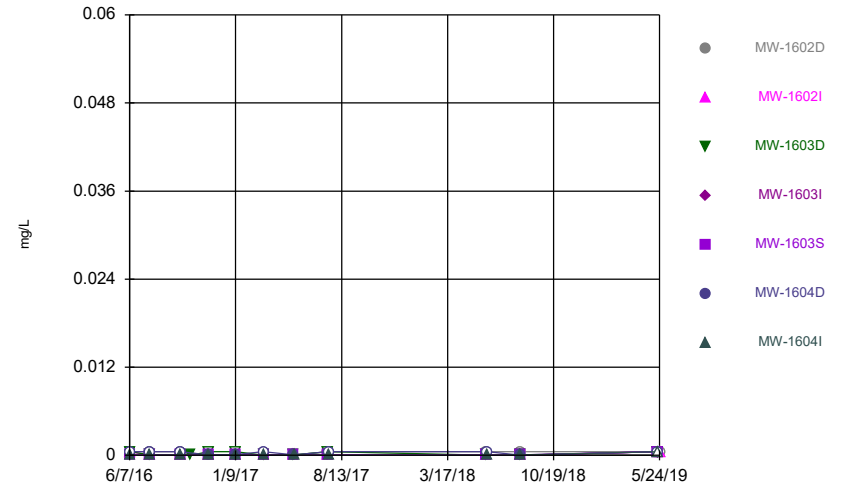
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Time Series



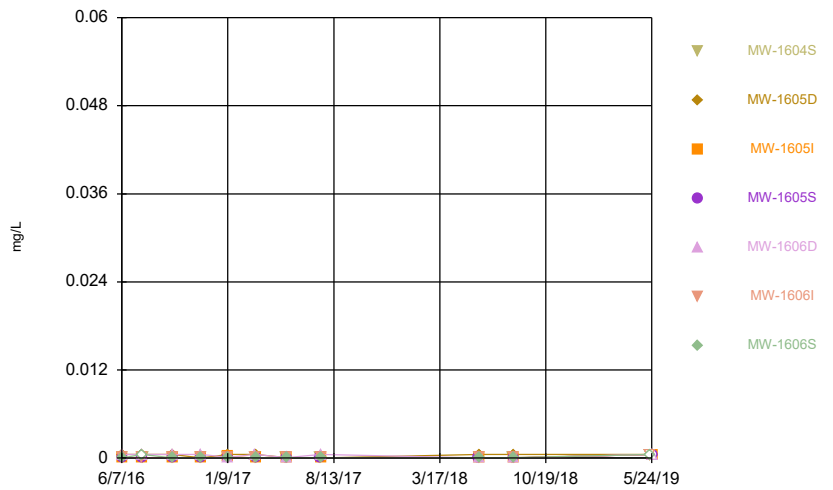
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Time Series



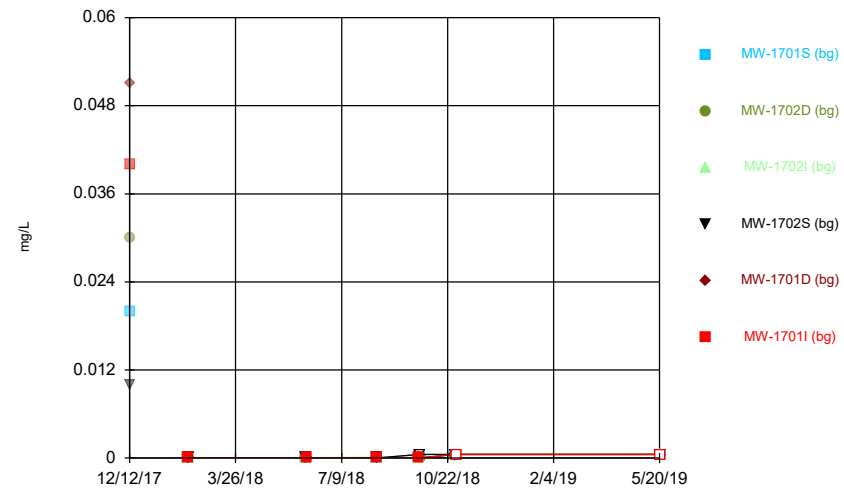
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Time Series



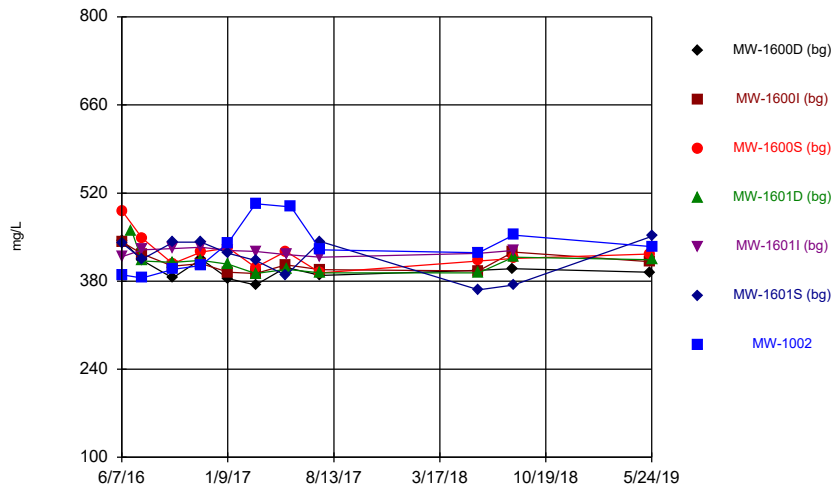
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Time Series



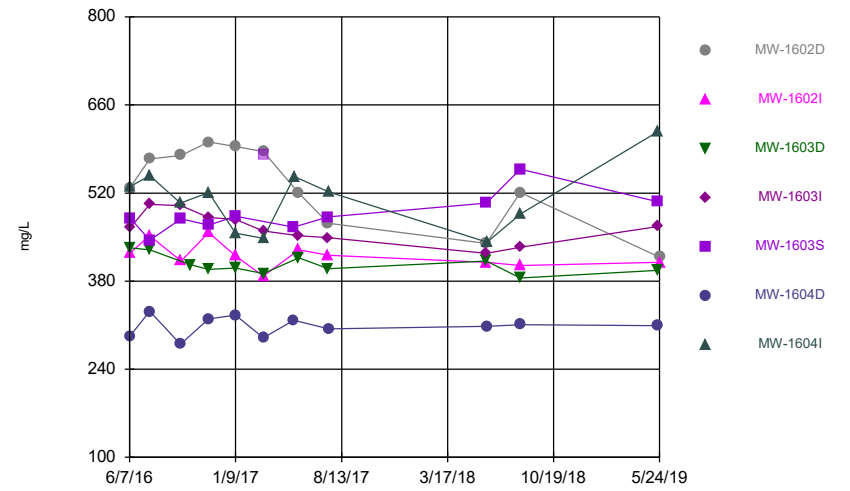
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Time Series



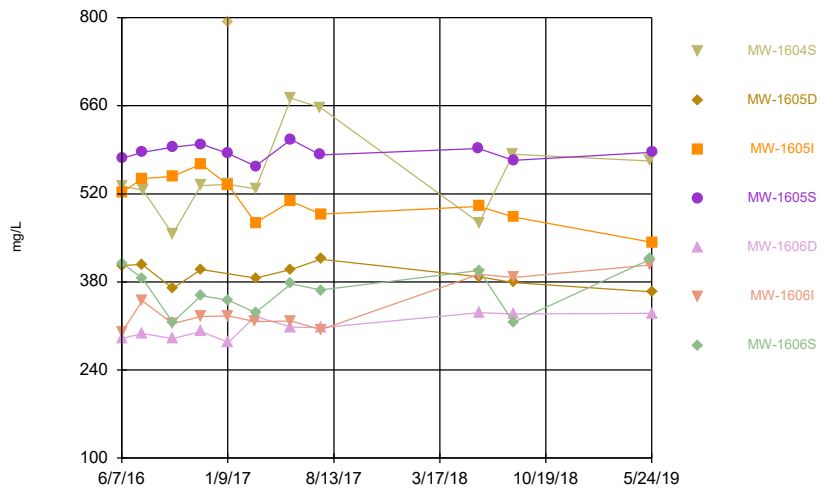
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



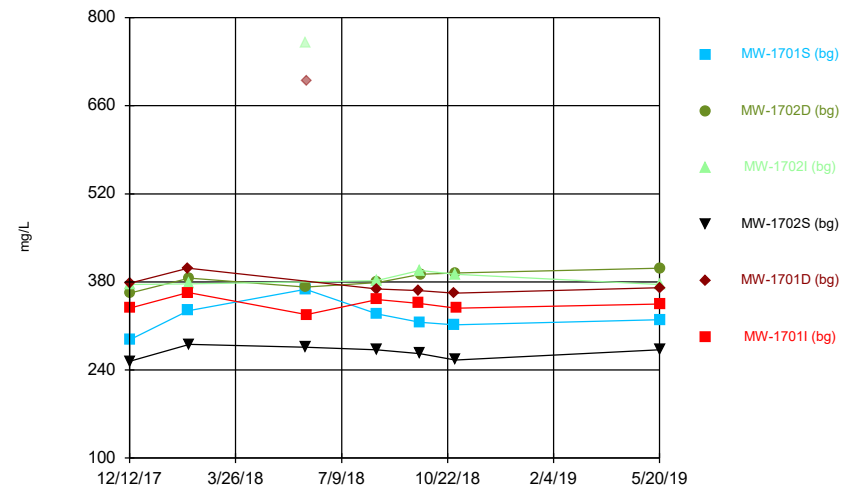
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Time Series



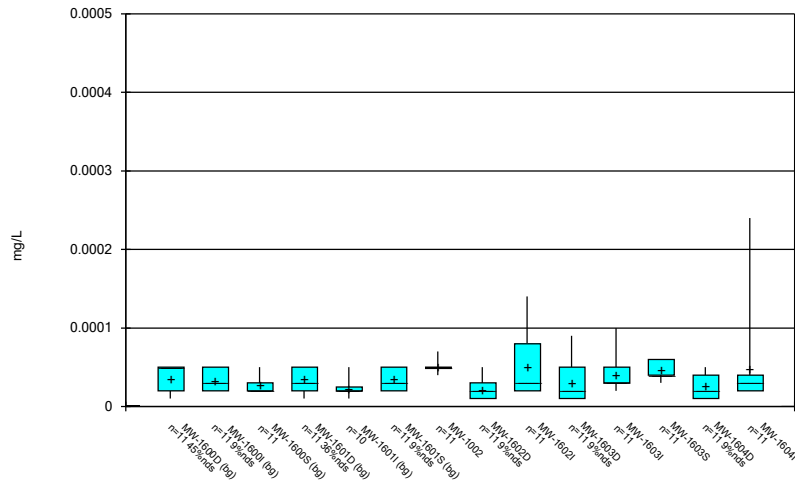
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Time Series



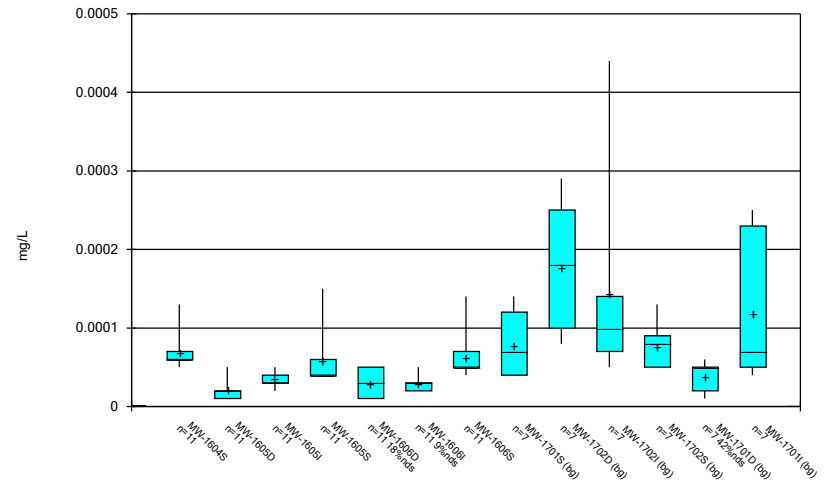
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Box & Whiskers Plot



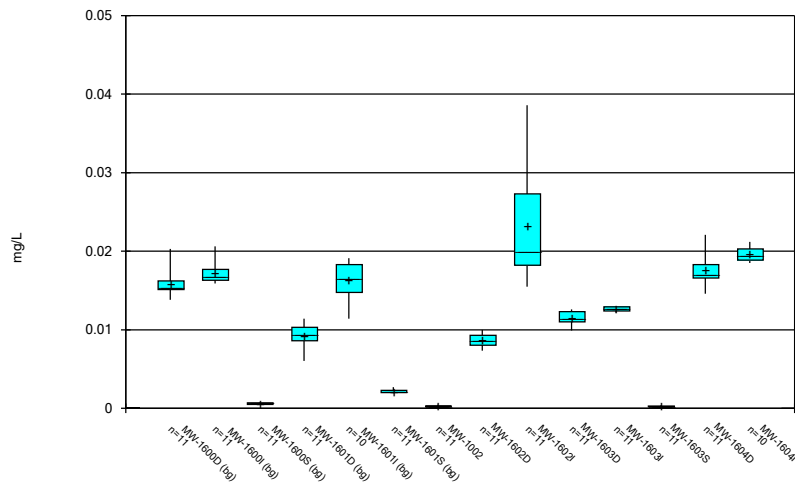
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



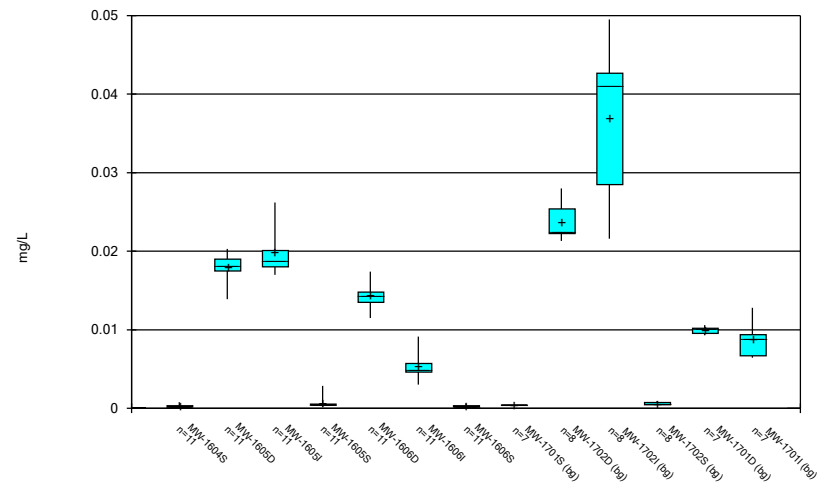
Constituent: Antimony, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



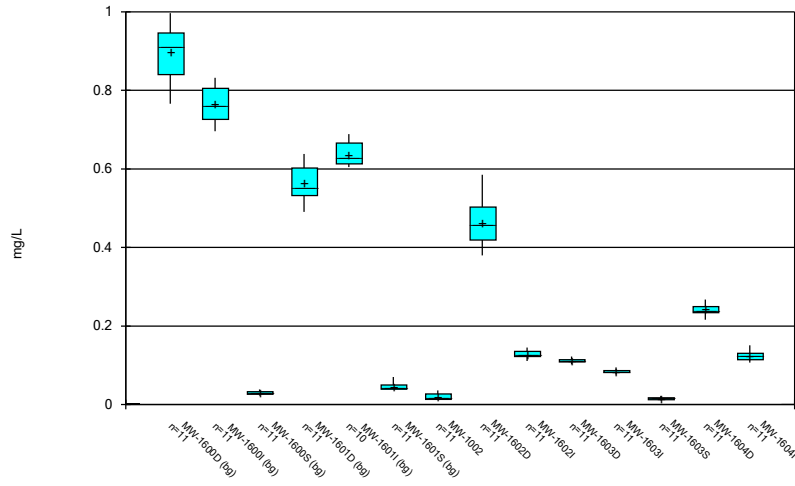
Constituent: Arsenic, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



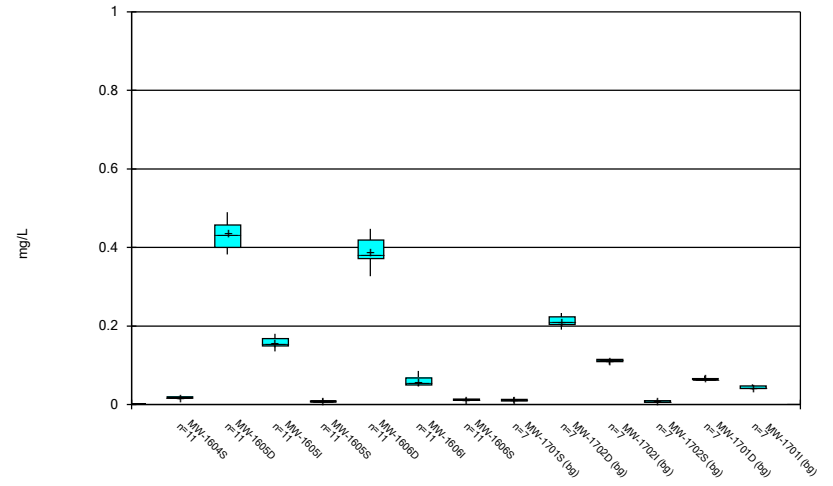
Constituent: Arsenic, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



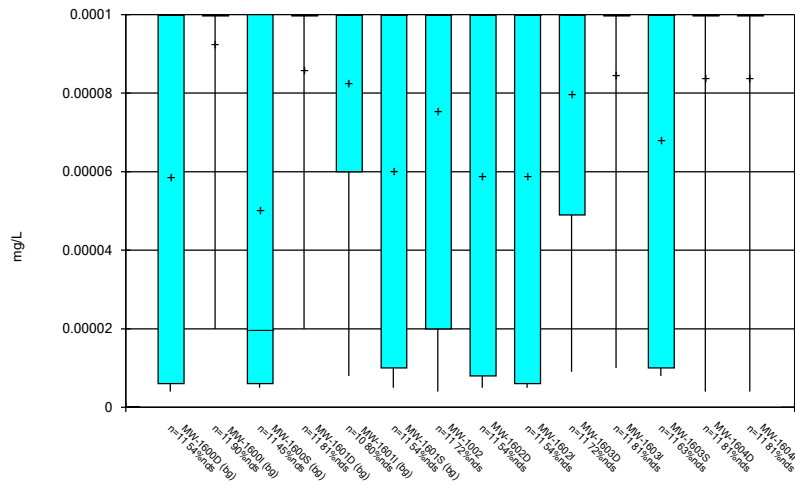
Constituent: Barium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



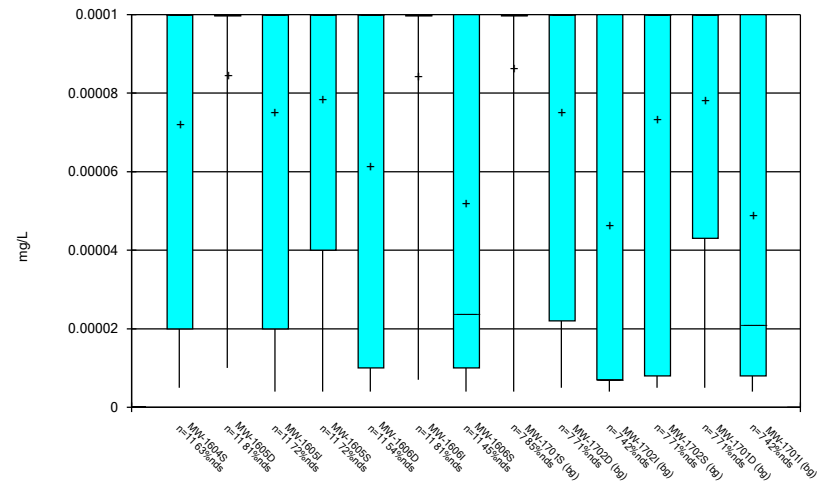
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



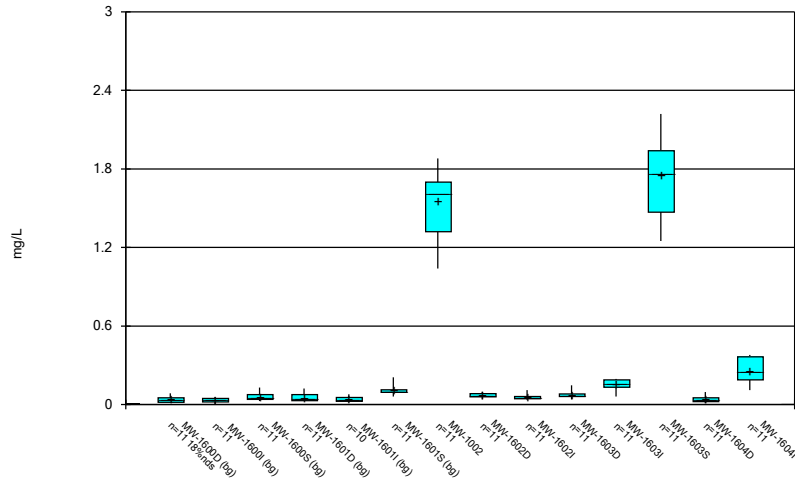
Constituent: Beryllium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



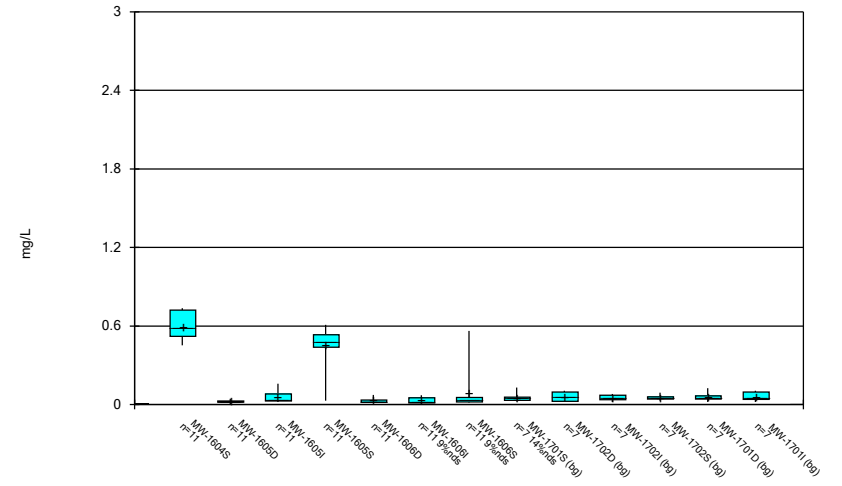
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



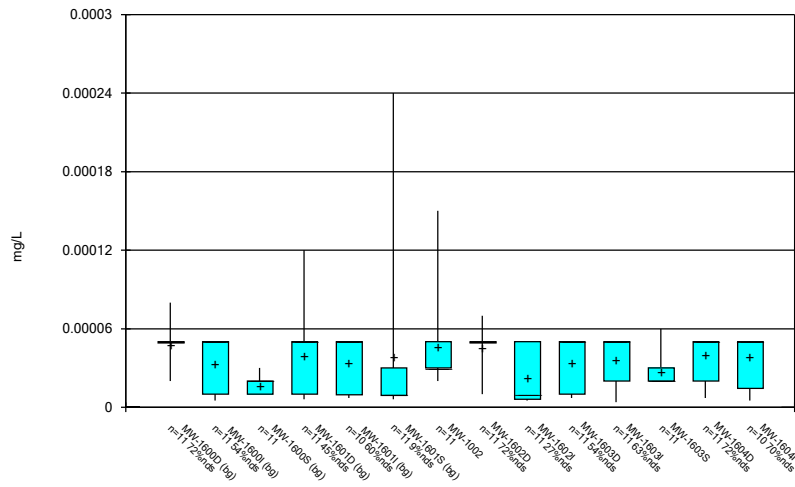
Constituent: Boron, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



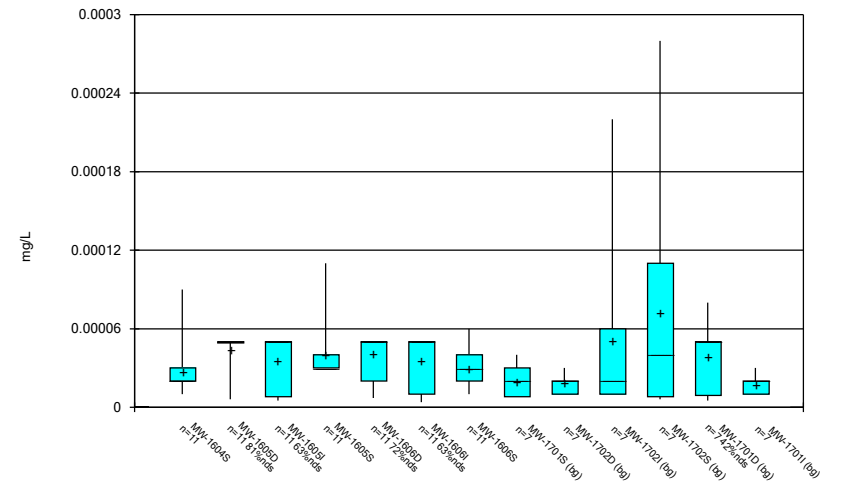
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



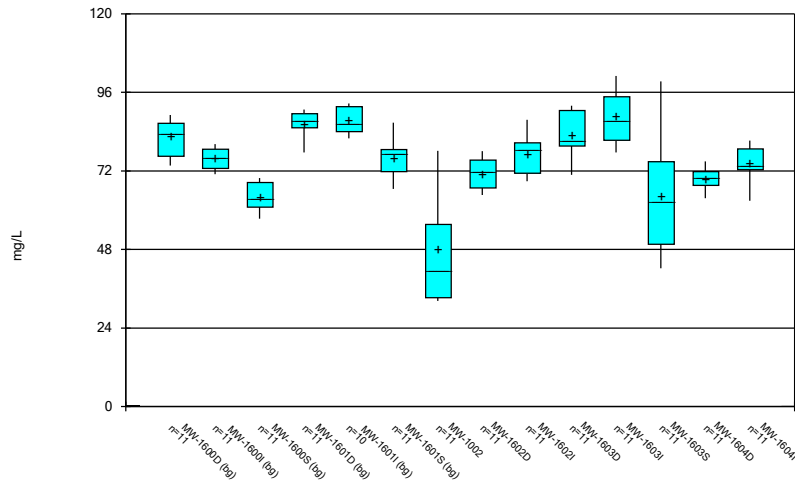
Constituent: Cadmium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



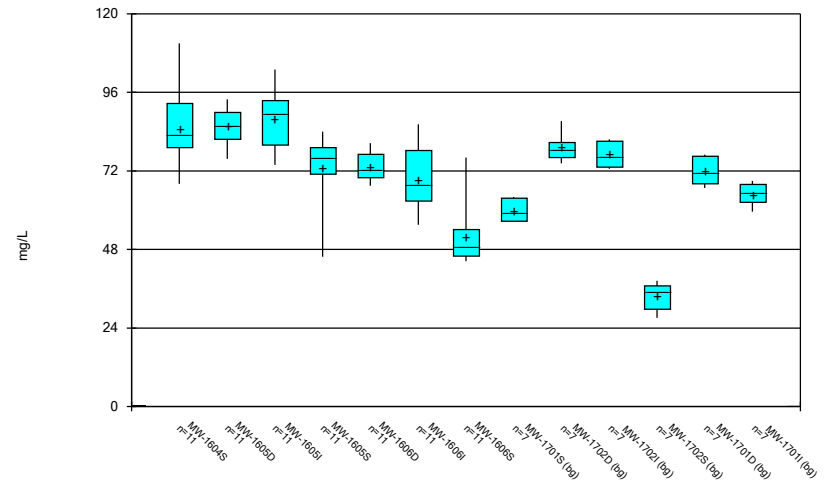
Constituent: Cadmium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



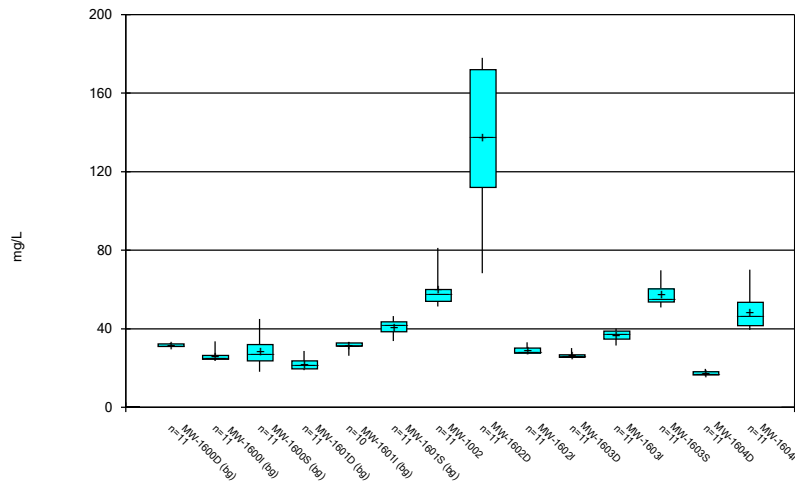
Constituent: Calcium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



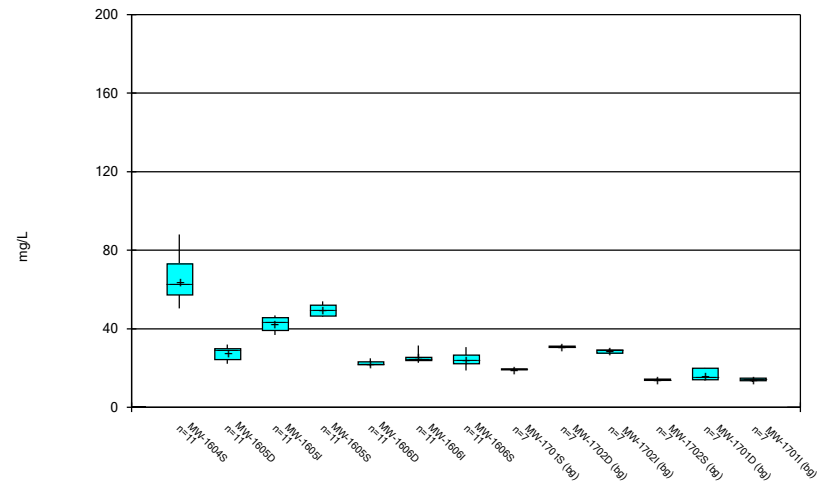
Constituent: Calcium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



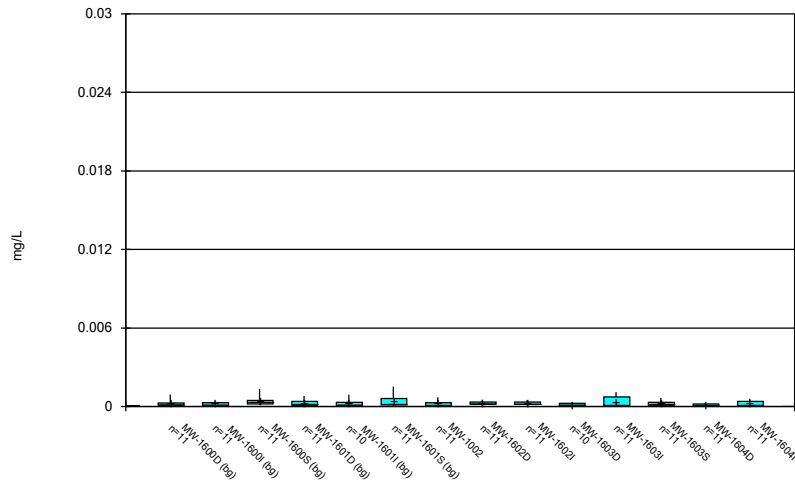
Constituent: Chloride, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



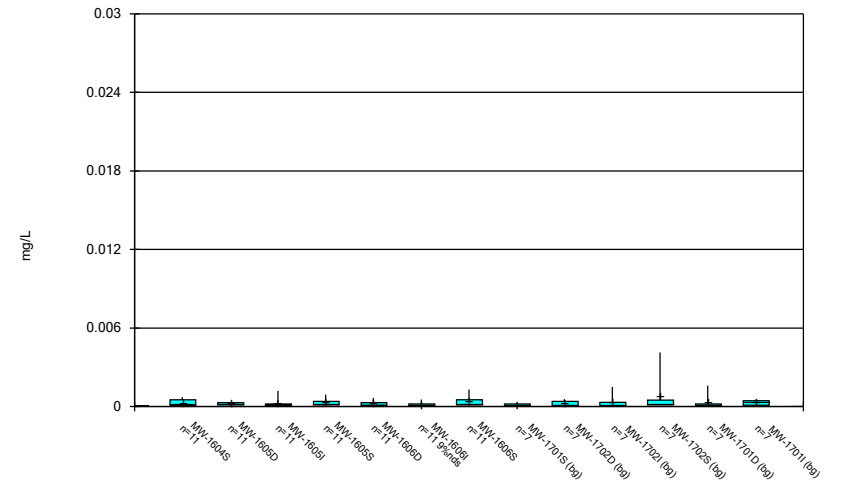
Constituent: Chloride, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



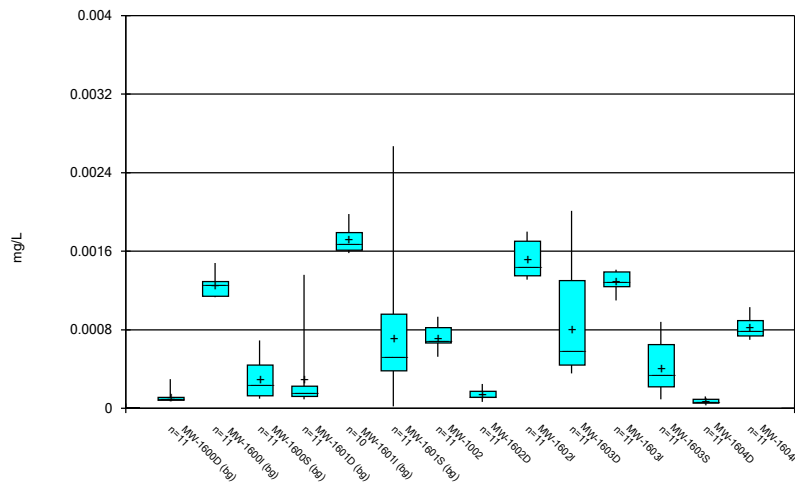
Constituent: Chromium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



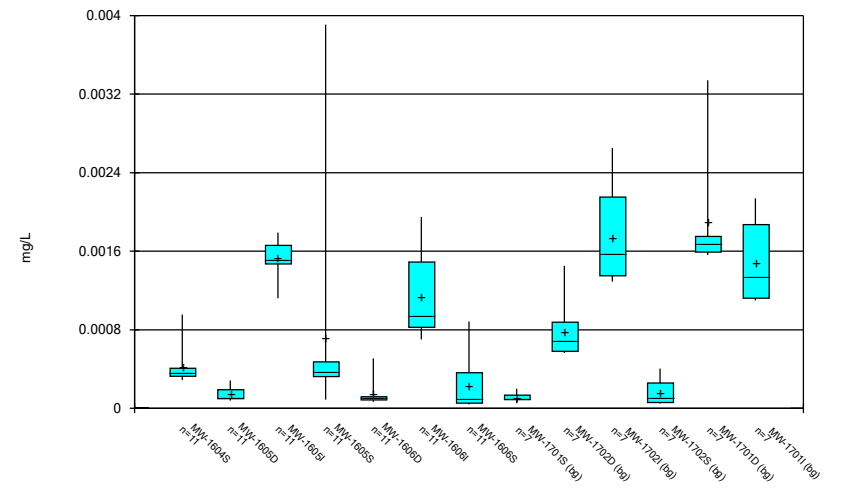
Constituent: Chromium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



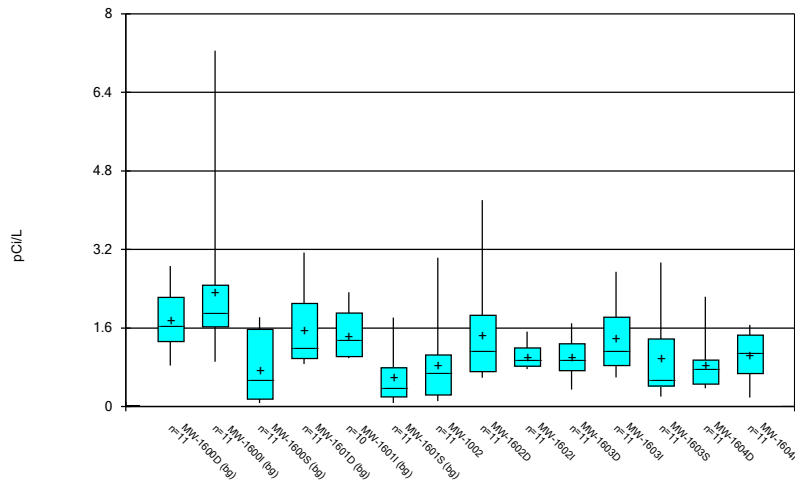
Constituent: Cobalt, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



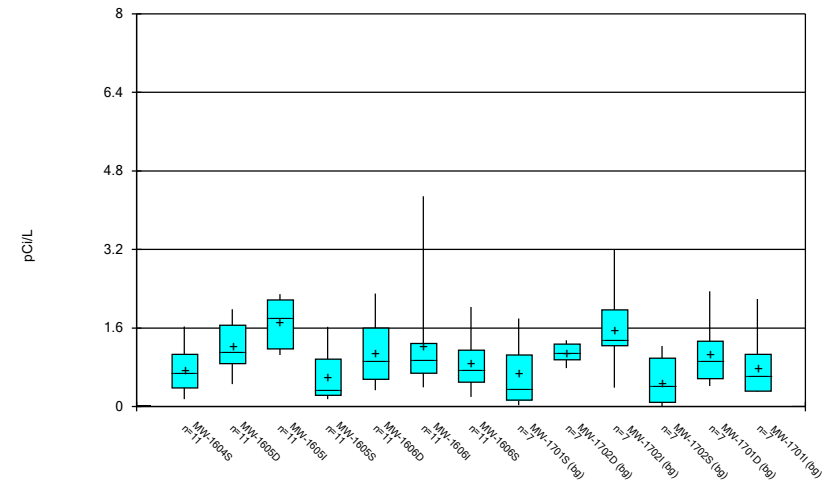
Constituent: Cobalt, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



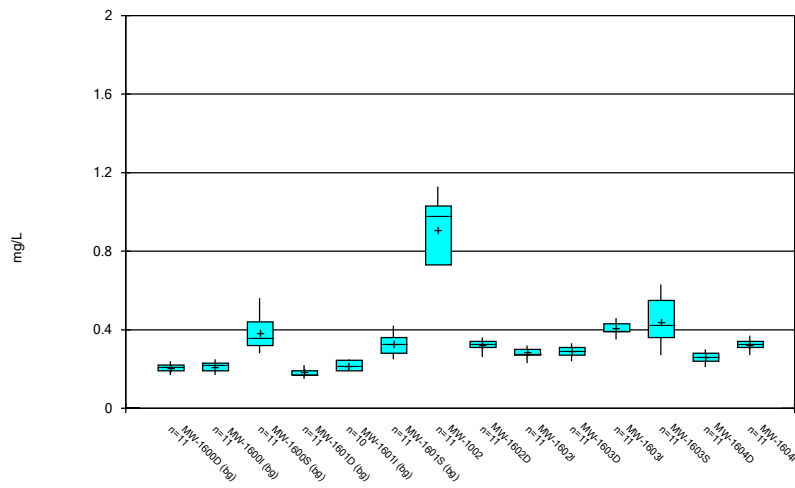
Constituent: Combined Radium 226 + 228 Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



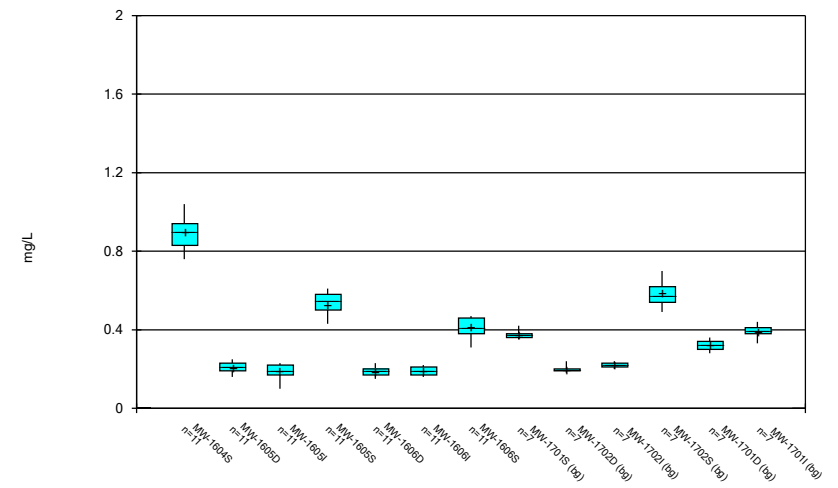
Constituent: Combined Radium 226 + 228 Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



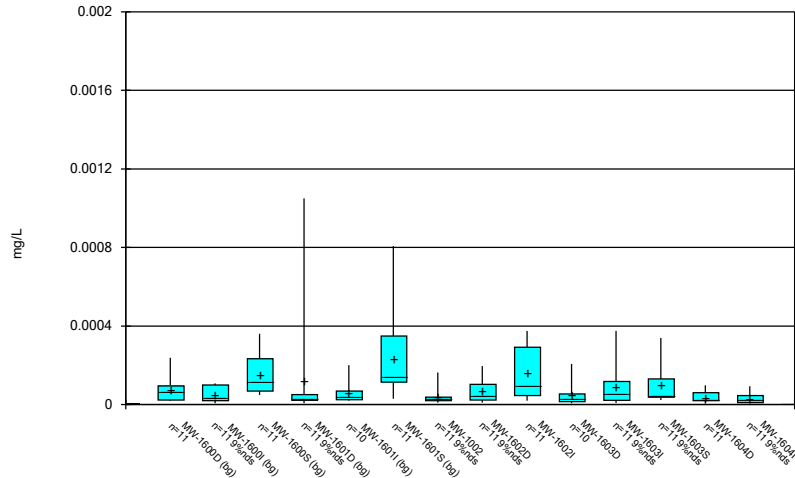
Constituent: Fluoride, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



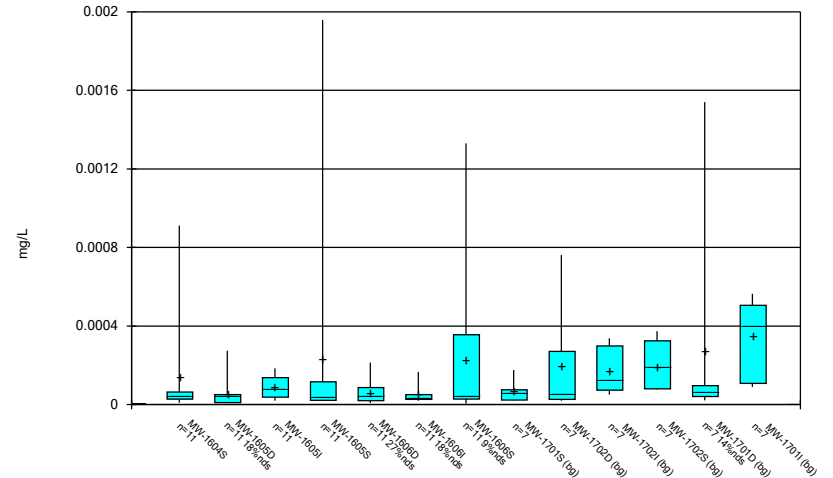
Constituent: Fluoride, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



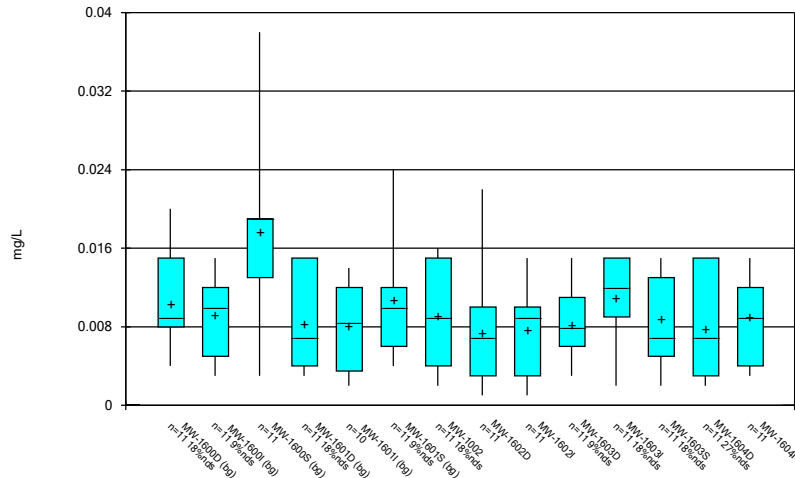
Constituent: Lead, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



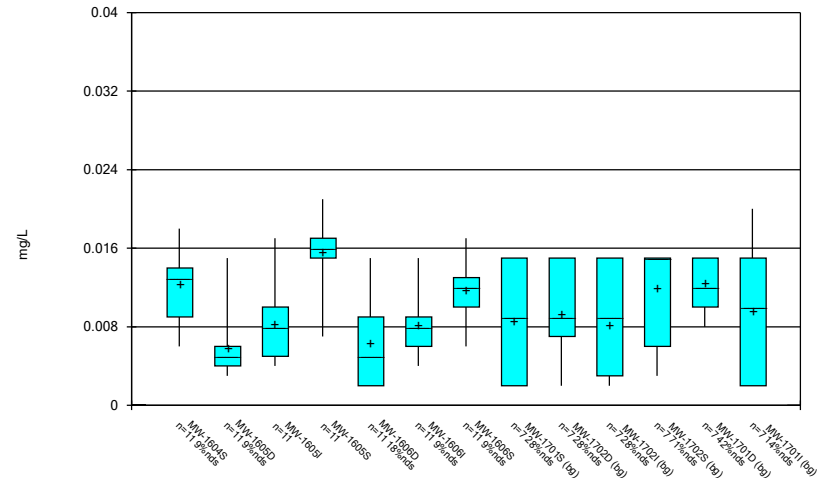
Constituent: Lead, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



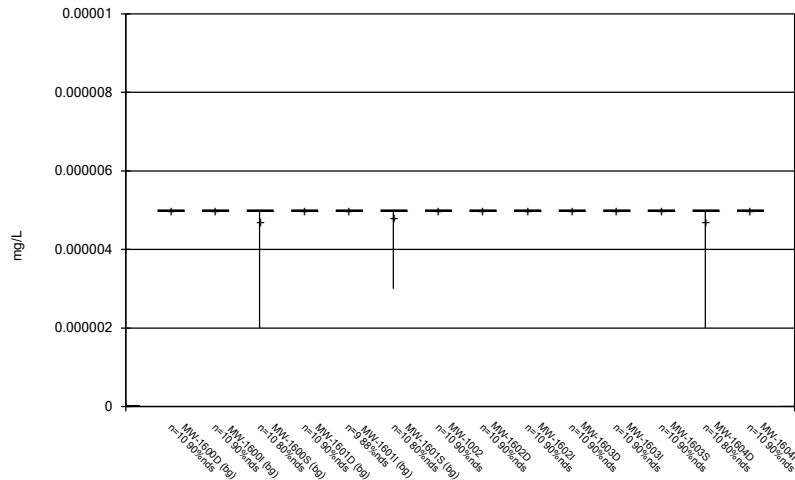
Constituent: Lithium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



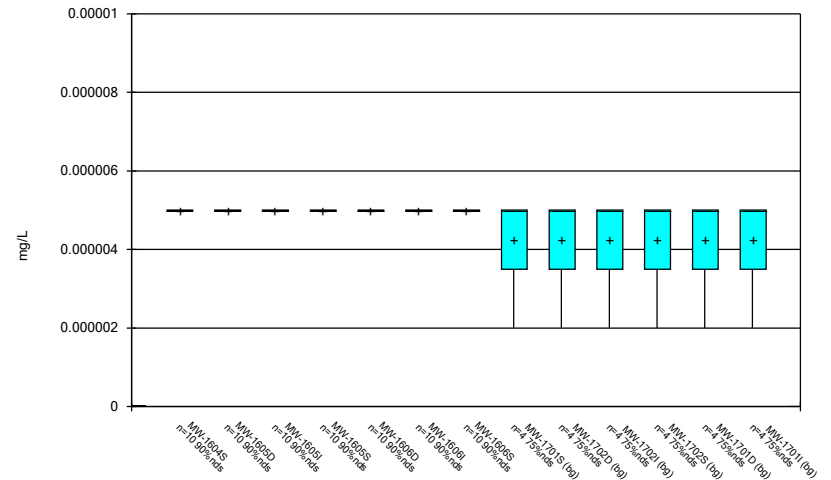
Constituent: Lithium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



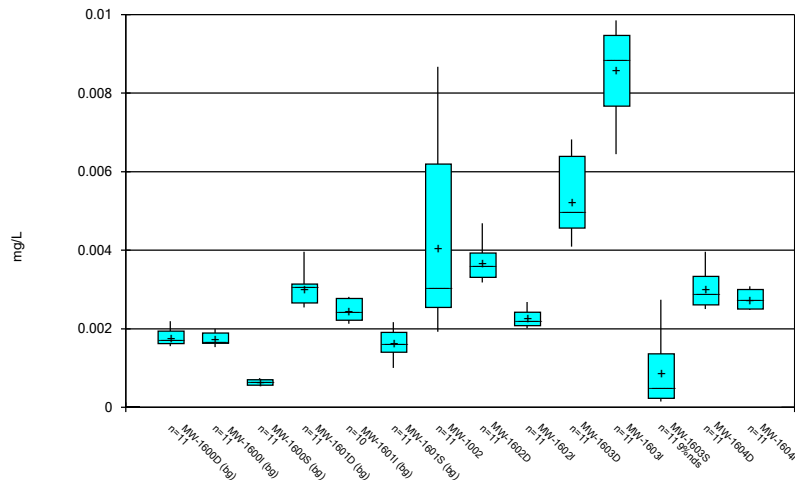
Constituent: Mercury, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



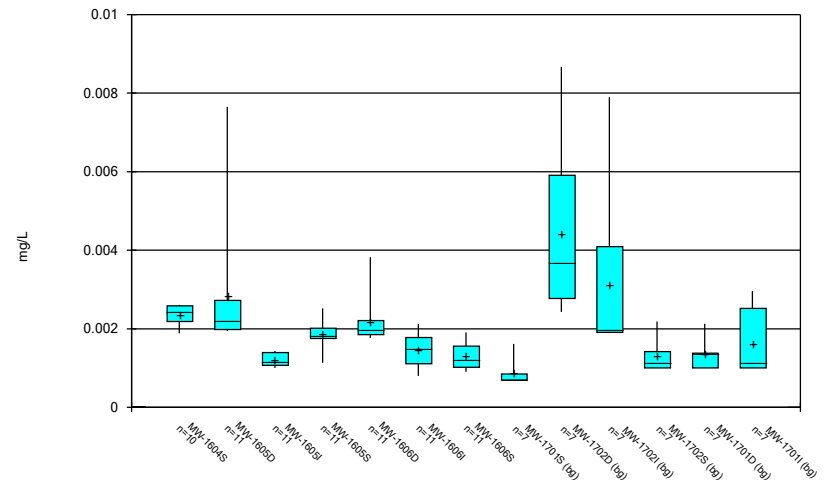
Constituent: Mercury, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



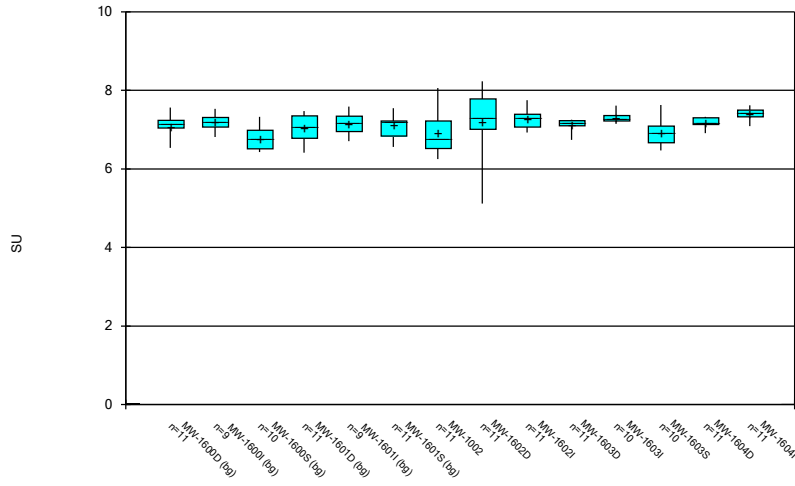
Constituent: Molybdenum, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



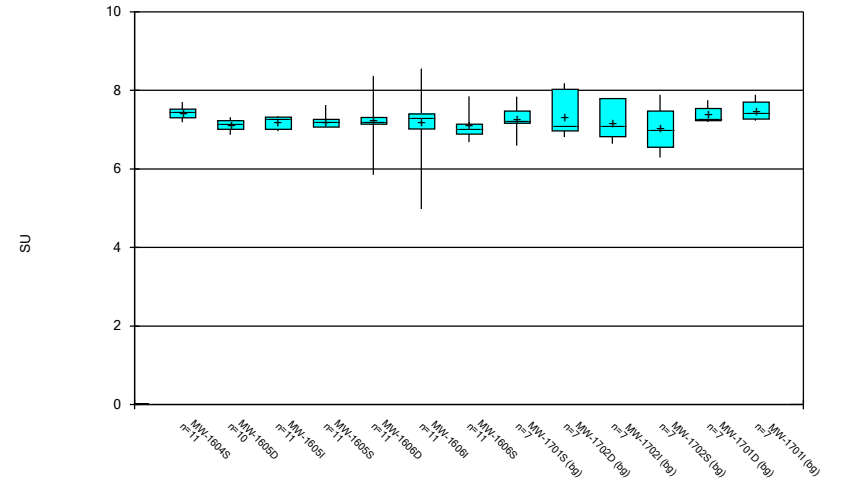
Constituent: Molybdenum, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



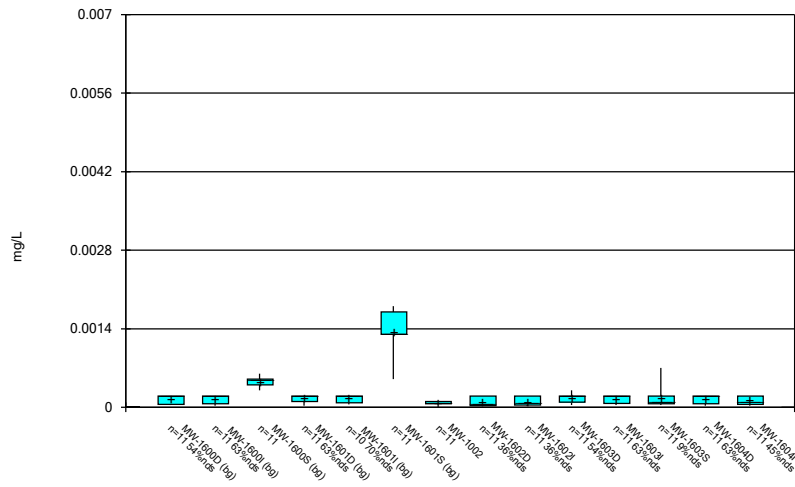
Constituent: pH, field Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



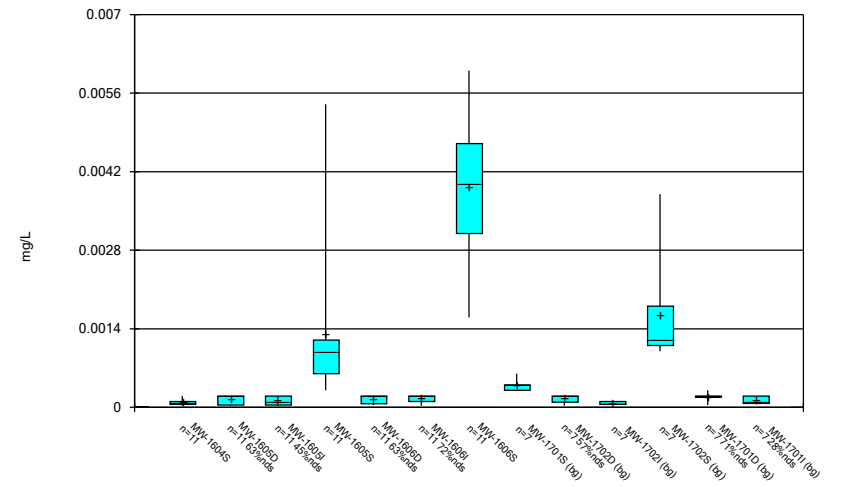
Constituent: pH, field Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



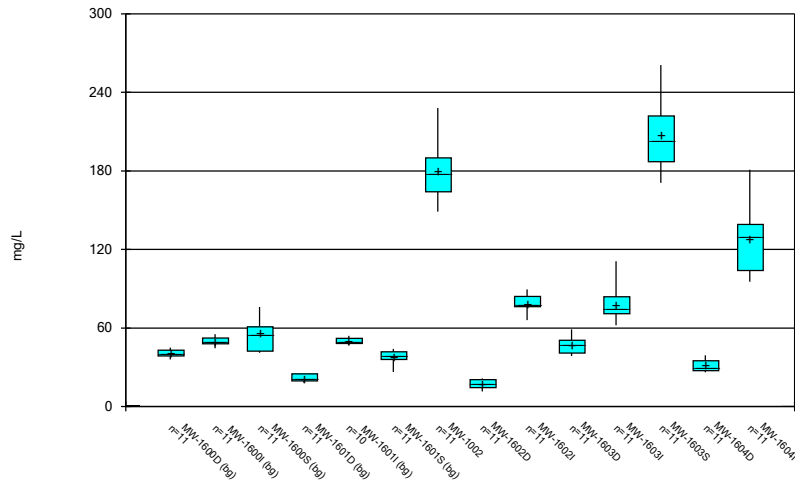
Constituent: Selenium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



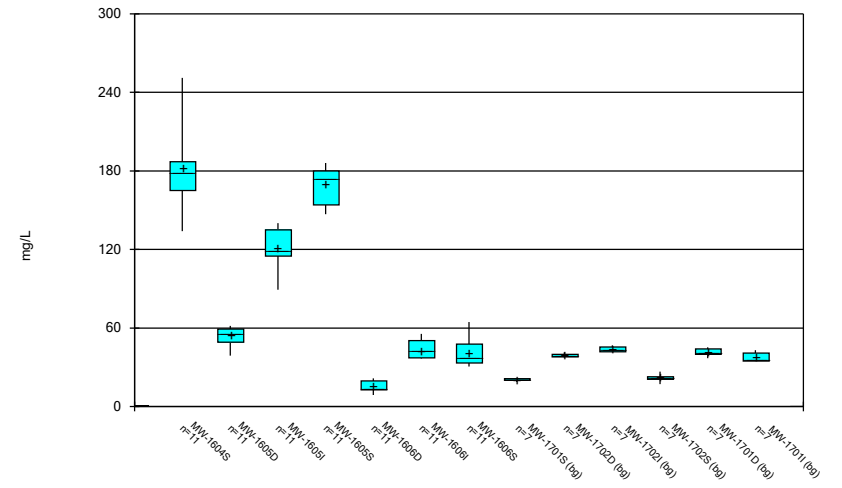
Constituent: Selenium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



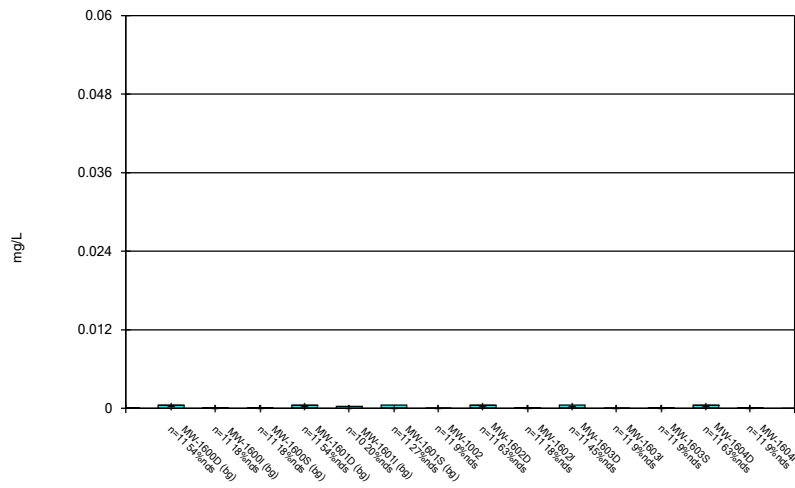
Constituent: Sulfate, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



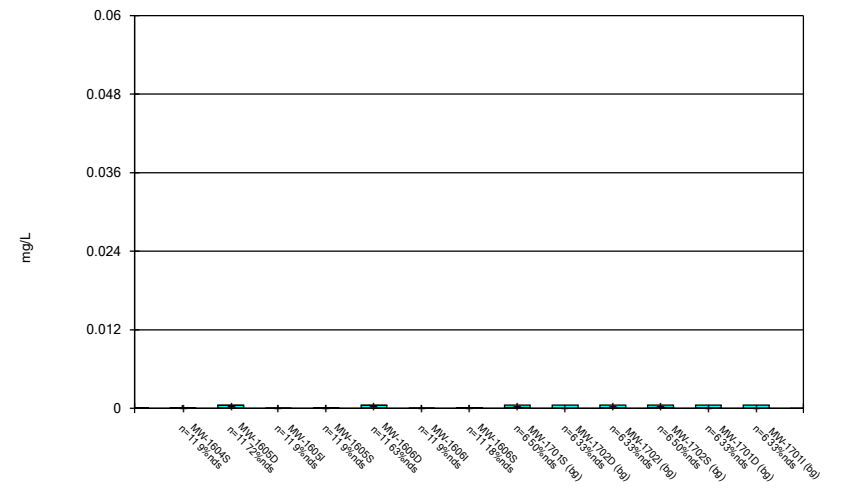
Constituent: Sulfate, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



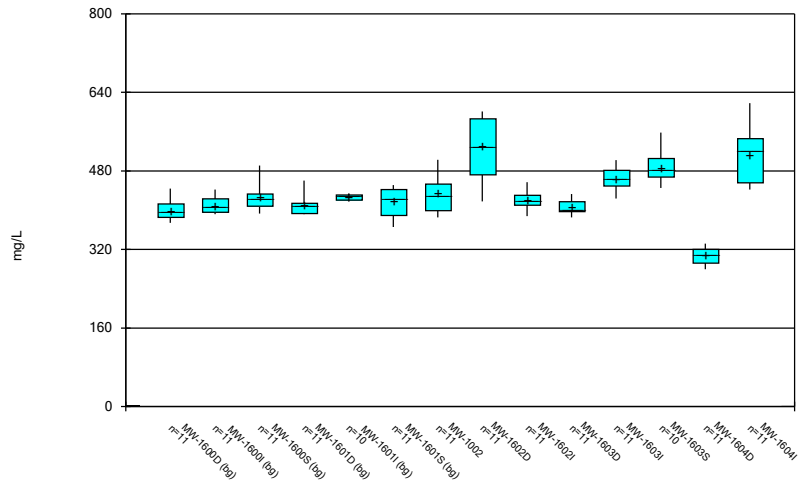
Constituent: Thallium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



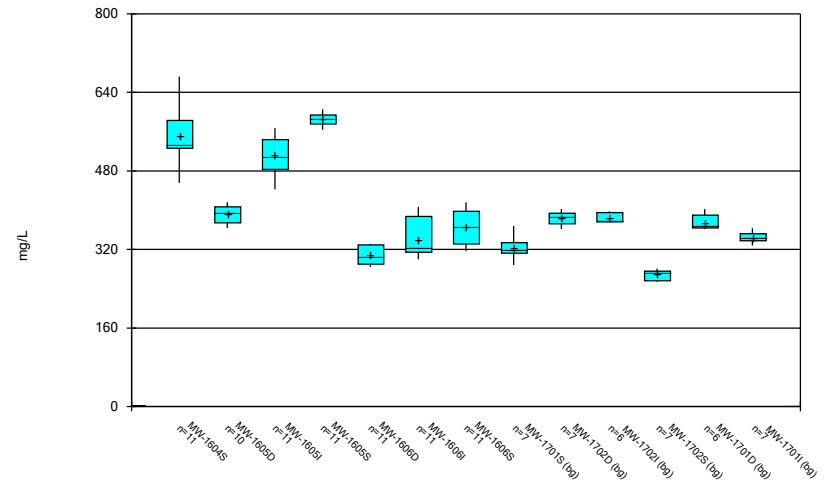
Constituent: Thallium, total Analysis Run 8/10/2019 10:10 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/10/2019 10:11 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/10/2019 10:11 AM View: Descriptive
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/10/2019, 10:17 AM

MW-1604I Arsenic, total (mg/L) MW-1604I Cadmium, total (mg/L) MW-1603D Chromium, total (mg/L) MW-1603D Lead, total (mg/L) MW-1604S Molybdenum, total (mg/L) MW-1600I pH, field (SU) MW-1600S pH, field (SU) MW-1601I pH, field (SU) MW-1603I pH, field (SU) MW-1603S pH, field (SU)

| Date | MW-1604I Arsenic, total (mg/L) | MW-1604I Cadmium, total (mg/L) | MW-1603D Chromium, total (mg/L) | MW-1603D Lead, total (mg/L) | MW-1604S Molybdenum, total (mg/L) | MW-1600I pH, field (SU) | MW-1600S pH, field (SU) | MW-1601I pH, field (SU) | MW-1603I pH, field (SU) | MW-1603S pH, field (SU) |
|------------|--------------------------------|--------------------------------|---------------------------------|-----------------------------|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 6/7/2016 | 0.00012 (o) | | | | | | | | | |
| 10/10/2016 | | 0.0238 (o) | 0.00138 (o) | | | | | | | |
| 11/15/2016 | | | | 0.00479 (o) | | | | | | |
| 1/10/2017 | | | | | | | | | | |
| 3/7/2017 | | | | | | | | | | |
| 5/9/2017 | 0.0264 (o) | | | | | | | | | |
| 7/17/2017 | | | | | 9.29 (o) | 9.46 (o) | 9.45 (o) | 9.78 (o) | 9.63 (o) | |
| 7/18/2017 | | | | | | | | | | |
| 12/12/2017 | | | | | | | | | | |
| 6/4/2018 | | | | | | | | | | |
| 6/5/2018 | | | | | | | | | | |

MW-1605D pH, field (SU) MW-1701S Thallium, total (mg/L) MW-1702D Thallium, total (mg/L) MW-1702I Thallium, total (mg/L) MW-1702S Thallium, total (mg/L) MW-1701D Thallium, total (mg/L) MW-1701I Thallium, total (mg/L) MW-1603S Total Dissolved Solids [TDS] (mg/L) MW-1605D Total Dissolved Solids [TDS] (mg/L) MW-1702I Total Dissolved Solids [TDS] (mg/L)

| Date | MW-1605D pH, field (SU) | MW-1701S Thallium, total (mg/L) | MW-1702D Thallium, total (mg/L) | MW-1702I Thallium, total (mg/L) | MW-1702S Thallium, total (mg/L) | MW-1701D Thallium, total (mg/L) | MW-1701I Thallium, total (mg/L) | MW-1603S Total Dissolved Solids [TDS] (mg/L) | MW-1605D Total Dissolved Solids [TDS] (mg/L) | MW-1702I Total Dissolved Solids [TDS] (mg/L) |
|------------|-------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|--|
| 6/7/2016 | | | | | | | | | | |
| 10/10/2016 | | | | | | | | | | |
| 11/15/2016 | | | | | | | | | | |
| 1/10/2017 | | | | | | | | 794 (o) | | |
| 3/7/2017 | | | | | | | | | | |
| 5/9/2017 | | | | | | | | 581 (o) | | |
| 7/17/2017 | | | | | | | | | | |
| 7/18/2017 | 9.51 (o) | | | | | | | | | |
| 12/12/2017 | | 0.02 (o) | 0.03 (o) | 0.04 (o) | 0.01 (o) | 0.051 (o) | 0.04 (o) | | | |
| 6/4/2018 | | | | | | | | | 760 (o) | |
| 6/5/2018 | | | | | | | | | | |

MW-1701D Total Dissolved Solids [TDS] (mg/L)

| Date | MW-1701D Total Dissolved Solids [TDS] (mg/L) |
|------------|--|
| 6/7/2016 | |
| 10/10/2016 | |
| 11/15/2016 | |
| 1/10/2017 | |
| 3/7/2017 | |
| 5/9/2017 | |
| 7/17/2017 | |
| 7/18/2017 | |
| 12/12/2017 | |
| 6/4/2018 | |
| 6/5/2018 | 700 (o) |

Interwell Prediction Limit Summary - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/9/2019, 8:36 AM

| Constituent | Well | Upper Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------------|----------|------------|-----------|---------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------|
| Boron, total (mg/L) | MW-1002 | 0.1334 | 5/24/2019 | 1.61 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1603S | 0.1334 | 5/21/2019 | 1.47 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1604I | 0.1334 | 5/21/2019 | 0.254 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1604S | 0.1334 | 5/20/2019 | 0.451 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1605S | 0.1334 | 5/24/2019 | 0.415 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Chloride, total (mg/L) | MW-1002 | 46.4 | 5/24/2019 | 55.9 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1602D | 46.4 | 5/24/2019 | 68.3 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1603S | 46.4 | 5/21/2019 | 56 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1604I | 46.4 | 5/21/2019 | 70.1 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1604S | 46.4 | 5/20/2019 | 57.2 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1002 | 0.7 | 5/24/2019 | 1.13 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1604S | 0.7 | 5/20/2019 | 0.99 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1002 | 76 | 5/24/2019 | 169 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1603S | 76 | 5/21/2019 | 187 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1604I | 76 | 5/21/2019 | 181 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1604S | 76 | 5/20/2019 | 179 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1605I | 76 | 5/24/2019 | 89.2 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1605S | 76 | 5/24/2019 | 147 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1603I | 464.7 | 5/21/2019 | 467 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1603S | 464.7 | 5/21/2019 | 506 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1604I | 464.7 | 5/21/2019 | 618 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1604S | 464.7 | 5/20/2019 | 572 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1605S | 464.7 | 5/24/2019 | 586 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |

Interwell Prediction Limit Summary - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/9/2019, 8:36 AM

| Constituent | Well | Upper Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------|-----------------|---------------|------------------|--------------|------------|------------|---------------|----------------|--------------|-------------|----------------|------------------|-----------------------|
| Boron, total (mg/L) | MW-1002 | 0.1334 | 5/24/2019 | 1.61 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1602D | 0.1334 | 5/24/2019 | 0.04 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1602I | 0.1334 | 5/24/2019 | 0.05 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1603D | 0.1334 | 5/21/2019 | 0.04 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1603I | 0.1334 | 5/21/2019 | 0.06 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1603S | 0.1334 | 5/21/2019 | 1.47 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1604D | 0.1334 | 5/21/2019 | 0.03 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1604I | 0.1334 | 5/21/2019 | 0.254 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1604S | 0.1334 | 5/20/2019 | 0.451 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1605D | 0.1334 | 5/24/2019 | 0.02 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1605I | 0.1334 | 5/24/2019 | 0.08 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1605S | 0.1334 | 5/24/2019 | 0.415 | Yes | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1606D | 0.1334 | 5/24/2019 | 0.02 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1606I | 0.1334 | 5/21/2019 | 0.02 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Boron, total (mg/L) | MW-1606S | 0.1334 | 5/21/2019 | 0.05 | No | 107 | 0.2265 | 0.06738 | 2.804 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Chloride, total (mg/L) | MW-1002 | 46.4 | 5/24/2019 | 55.9 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1602D | 46.4 | 5/24/2019 | 68.3 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1602I | 46.4 | 5/24/2019 | 29 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1603D | 46.4 | 5/21/2019 | 25.3 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1603I | 46.4 | 5/21/2019 | 39.4 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1603S | 46.4 | 5/21/2019 | 56 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1604D | 46.4 | 5/21/2019 | 16.1 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1604I | 46.4 | 5/21/2019 | 70.1 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1604S | 46.4 | 5/20/2019 | 57.2 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1605D | 46.4 | 5/24/2019 | 22.1 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1605I | 46.4 | 5/24/2019 | 36.8 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1605S | 46.4 | 5/24/2019 | 46.1 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1606D | 46.4 | 5/24/2019 | 25 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1606I | 46.4 | 5/21/2019 | 29.8 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Chloride, total (mg/L) | MW-1606S | 46.4 | 5/21/2019 | 26.6 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1002 | 0.7 | 5/24/2019 | 1.13 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1602D | 0.7 | 5/24/2019 | 0.33 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1602I | 0.7 | 5/24/2019 | 0.3 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1603D | 0.7 | 5/21/2019 | 0.28 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1603I | 0.7 | 5/21/2019 | 0.45 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1603S | 0.7 | 5/21/2019 | 0.55 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1604D | 0.7 | 5/21/2019 | 0.27 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1604I | 0.7 | 5/21/2019 | 0.34 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1604S | 0.7 | 5/20/2019 | 0.99 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1605D | 0.7 | 5/24/2019 | 0.24 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1605I | 0.7 | 5/24/2019 | 0.23 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1605S | 0.7 | 5/24/2019 | 0.61 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1606D | 0.7 | 5/24/2019 | 0.2 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1606I | 0.7 | 5/21/2019 | 0.16 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | MW-1606S | 0.7 | 5/21/2019 | 0.47 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1002 | 76 | 5/24/2019 | 169 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1602D | 76 | 5/24/2019 | 20.5 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1602I | 76 | 5/24/2019 | 65.9 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1603D | 76 | 5/21/2019 | 38.5 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1603I | 76 | 5/21/2019 | 74.6 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |

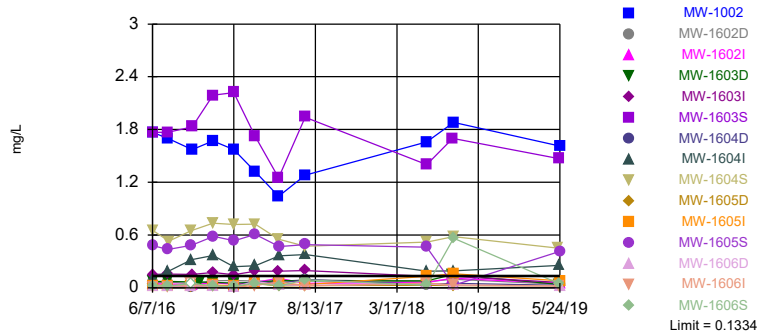
Interwell Prediction Limit Summary - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/9/2019, 8:36 AM

| Constituent | Well | Upper Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--|-----------------|--------------|------------------|-------------|------------|------------|--------------|--------------|----------|-------------|------------|------------------|-----------------------|
| Sulfate, total (mg/L) | MW-1603S | 76 | 5/21/2019 | 187 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1604D | 76 | 5/21/2019 | 27.4 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1604I | 76 | 5/21/2019 | 181 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1604S | 76 | 5/20/2019 | 179 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1605D | 76 | 5/24/2019 | 38.9 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1605I | 76 | 5/24/2019 | 89.2 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1605S | 76 | 5/24/2019 | 147 | Yes | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1606D | 76 | 5/24/2019 | 19.6 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1606I | 76 | 5/21/2019 | 55.5 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | MW-1606S | 76 | 5/21/2019 | 64.5 | No | 107 | n/a | n/a | 0 | n/a | n/a | 0.0001715 | NP (normality) 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1002 | 464.7 | 5/24/2019 | 435 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1602D | 464.7 | 5/24/2019 | 418 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1602I | 464.7 | 5/24/2019 | 410 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1603D | 464.7 | 5/21/2019 | 397 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1603I | 464.7 | 5/21/2019 | 467 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1603S | 464.7 | 5/21/2019 | 506 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1604D | 464.7 | 5/21/2019 | 309 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1604I | 464.7 | 5/21/2019 | 618 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1604S | 464.7 | 5/20/2019 | 572 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1605D | 464.7 | 5/24/2019 | 364 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1605I | 464.7 | 5/24/2019 | 443 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1605S | 464.7 | 5/24/2019 | 586 | Yes | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1606D | 464.7 | 5/24/2019 | 330 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1606I | 464.7 | 5/21/2019 | 407 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | MW-1606S | 464.7 | 5/21/2019 | 416 | No | 105 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |

Exceeds Limit: MW-1002, MW-1603S, MW-1604I, MW-1604S, MW-1605S

Prediction Limit
Interwell Parametric

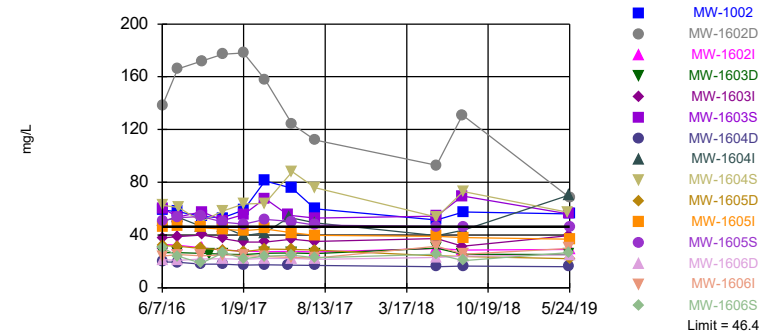


Background Data Summary (based on square root transformation): Mean=0.2265, Std. Dev.=0.06738, n=107, 2.804% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 6.925, critical = 14.07. Kappa = 2.059 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005016. Comparing 15 points to limit.

Constituent: Boron, total Analysis Run 8/9/2019 8:33 AM View: PL's - Interwell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limit: MW-1002, MW-1602D, MW-1603S, MW-1604I, MW-1604S

Prediction Limit
Interwell Non-parametric

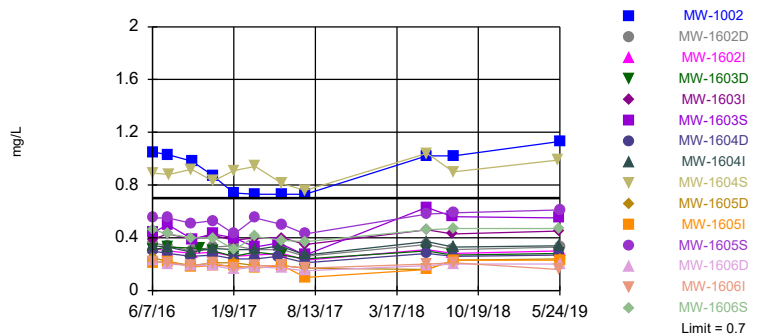


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 107 background values. Annual per-constituent alpha = 0.005132. Individual comparison alpha = 0.0001715 (1 of 2). Comparing 15 points to limit.

Constituent: Chloride, total Analysis Run 8/9/2019 8:33 AM View: PL's - Interwell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limit: MW-1002, MW-1604S

Prediction Limit
Interwell Non-parametric

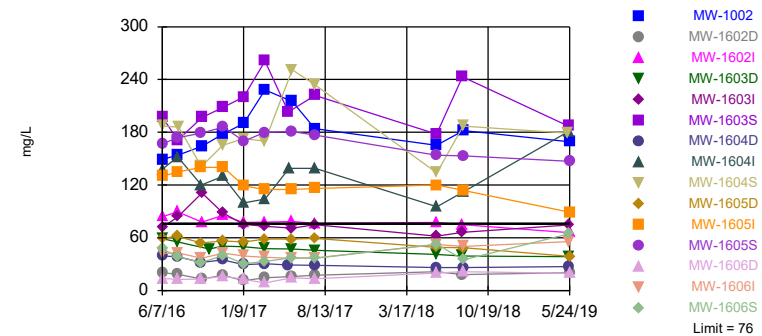


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 107 background values. Annual per-constituent alpha = 0.005132. Individual comparison alpha = 0.0001715 (1 of 2). Comparing 15 points to limit.

Constituent: Fluoride, total Analysis Run 8/9/2019 8:33 AM View: PL's - Interwell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limit: MW-1002, MW-1603S, MW-1604I, MW-1604S, MW-1605I, MW-1605S

Prediction Limit
Interwell Non-parametric

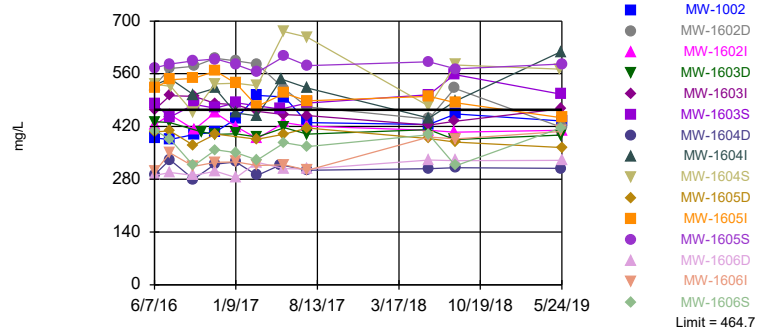


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 107 background values. Annual per-constituent alpha = 0.005132. Individual comparison alpha = 0.0001715 (1 of 2). Comparing 15 points to limit.

Constituent: Sulfate, total Analysis Run 8/9/2019 8:33 AM View: PL's - Interwell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limit: MW-1603I, MW-1603S, MW-1604I, MW-1604S, MW-1605S

Prediction Limit
Interwell Parametric



Background Data Summary (based on cube transformation): Mean=6.1e7, Std. Dev.=1.9e7, n=105. Normality test: Chi Squared @alpha = 0.01, calculated = 5.19, critical = 14.07. Kappa = 2.06 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005016. Comparing 15 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/9/2019 8:33 AM View: PL's - Interwell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Intrawell Prediction Limit Summary - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/10/2019, 9:36 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------|------------|------------|-----------|---------|------|------|---------|-----------|------|---------|-----------|-----------|--------------------|
| Calcium, total (mg/L) | MW-1606I | 76.05 | n/a | 5/21/2019 | 79.5 | Yes | 8 | 64.69 | 4.721 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1002 | 7.307 | 6.048 | 5/24/2019 | 7.38 | Yes | 8 | 6.678 | 0.2616 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1606I | 8.009 | 4.524 | 5/21/2019 | 8.56 | Yes | 8 | 17422 | 6451 | 0 | None | x^5 | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1606S | 7.312 | 6.61 | 5/21/2019 | 7.85 | Yes | 8 | 6.961 | 0.1457 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |

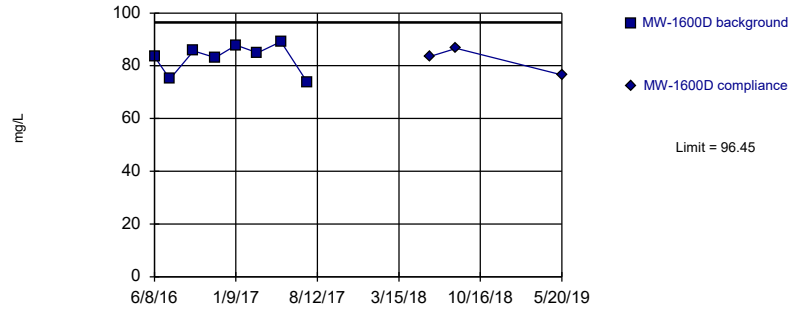
Intrawell Prediction Limit Summary - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/10/2019, 9:36 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg | N Bg | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------------|-----------------|--------------|--------------|------------------|-------------|------------|----------|--------------|---------------|-----------|-------------|------------|-----------|------------------|-----------------------------|
| Calcium, total (mg/L) | MW-1600D | 96.45 | n/a | 5/20/2019 | 76.5 | No | 8 | 82.81 | 5.664 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1600I | 82.91 | n/a | 5/20/2019 | 71 | No | 8 | 76.56 | 2.637 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1600S | 74.92 | n/a | 5/21/2019 | 57.4 | No | 8 | 65.28 | 4.007 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1601D | 98.28 | n/a | 5/24/2019 | 85.4 | No | 8 | 86.2 | 5.018 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1601I | 96.4 | n/a | 8/15/2018 | 91.7 | No | 8 | 86.8 | 3.987 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1601S | 88.26 | n/a | 5/24/2019 | 77.2 | No | 8 | 77.79 | 4.352 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1002 | 94.34 | n/a | 5/24/2019 | 32.9 | No | 8 | 51.88 | 17.64 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1602D | 83.65 | n/a | 5/24/2019 | 67.9 | No | 8 | 71.95 | 4.861 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1602I | 92.7 | n/a | 5/24/2019 | 74.6 | No | 8 | 78.43 | 5.93 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1603D | 101.7 | n/a | 5/21/2019 | 71.6 | No | 8 | 84.04 | 7.342 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1603I | 109.2 | n/a | 5/21/2019 | 81.4 | No | 8 | 91.26 | 7.46 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1603S | 110.7 | n/a | 5/21/2019 | 62.6 | No | 8 | 68.9 | 17.36 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1604D | 78.42 | n/a | 5/21/2019 | 69.3 | No | 8 | 69.86 | 3.557 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1604I | 85.79 | n/a | 5/21/2019 | 78.2 | No | 8 | 75.49 | 4.278 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1604S | 117.6 | n/a | 5/20/2019 | 80.4 | No | 8 | 85.99 | 13.13 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1605D | 96.88 | n/a | 5/24/2019 | 75.7 | No | 8 | 87.33 | 3.972 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1605I | 109.6 | n/a | 5/24/2019 | 73.8 | No | 8 | 91.19 | 7.636 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1605S | 88.65 | n/a | 5/24/2019 | 76 | No | 8 | 76.31 | 5.127 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1606D | 82 | n/a | 5/24/2019 | 75.7 | No | 8 | 72.45 | 3.97 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1606I | 76.05 | n/a | 5/21/2019 | 79.5 | Yes | 8 | 64.69 | 4.721 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1606S | 59.86 | n/a | 5/21/2019 | 48.9 | No | 8 | 49.18 | 4.437 | 0 | None | No | No | 0.0005016 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1600D | 7.887 | 6.208 | 5/20/2019 | 7.17 | No | 8 | 7.048 | 0.3486 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1600I | 7.679 | 6.598 | 5/21/2019 | 7.29 | No | 6 | 7.138 | 0.1789 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1600S | 7.034 | 6.22 | 5/21/2019 | 6.94 | No | 7 | 6.627 | 0.15 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1601D | 7.811 | 6.369 | 5/24/2019 | 7.06 | No | 8 | 7.09 | 0.2994 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1601I | 7.736 | 6.418 | 8/15/2018 | 7.25 | No | 7 | 7.077 | 0.2428 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1601S | 7.834 | 6.294 | 5/24/2019 | 7.15 | No | 8 | 7.064 | 0.3199 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1002 | 7.307 | 6.048 | 5/24/2019 | 7.38 | Yes | 8 | 6.678 | 0.2616 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1602D | 9.295 | 4.918 | 5/24/2019 | 7.43 | No | 8 | 7.106 | 0.9093 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1602I | 7.615 | 6.715 | 5/24/2019 | 7.42 | No | 8 | 7.165 | 0.187 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1603D | 7.531 | 6.659 | 5/21/2019 | 7.19 | No | 8 | 7.095 | 0.181 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1603I | 7.61 | 7.15 | 5/21/2019 | 7.25 | No | 7 | n/a | n/a | 0 | n/a | n/a | n/a | 0.01734 | NP Intra (normality) 1 of 3 |
| pH, field (SU) | MW-1603S | 7.948 | 5.975 | 5/21/2019 | 6.59 | No | 7 | 6.961 | 0.3635 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1604D | 7.481 | 6.859 | 5/21/2019 | 7.24 | No | 8 | 7.17 | 0.1292 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1604I | 7.733 | 7.019 | 5/21/2019 | 7.33 | No | 8 | 7.376 | 0.1483 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1604S | 7.669 | 7.086 | 5/20/2019 | 7.48 | No | 8 | 7.378 | 0.1209 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1605D | 7.457 | 6.78 | 5/24/2019 | 6.92 | No | 7 | 7.119 | 0.1248 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1605I | 7.521 | 6.782 | 5/24/2019 | 7.3 | No | 8 | 7.151 | 0.1535 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1605S | 7.331 | 6.999 | 5/24/2019 | 7.26 | No | 8 | 7.165 | 0.06887 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1606D | 8.793 | 5.495 | 5/24/2019 | 7.15 | No | 8 | 7.144 | 0.6851 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1606I | 8.009 | 4.524 | 5/21/2019 | 8.56 | Yes | 8 | 17422 | 6451 | 0 | None | x*5 | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1606S | 7.312 | 6.61 | 5/21/2019 | 7.85 | Yes | 8 | 6.961 | 0.1457 | 0 | None | No | No | 0.0002508 | Param Intra 1 of 3 |

Within Limit

Prediction Limit
Intrawell Parametric

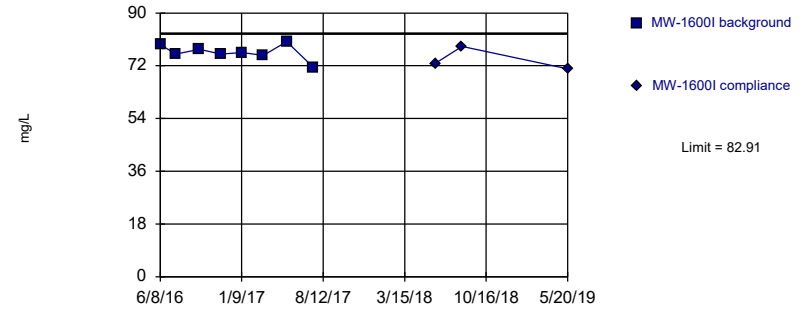


Background Data Summary: Mean=82.81, Std. Dev.=5.664, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8699, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

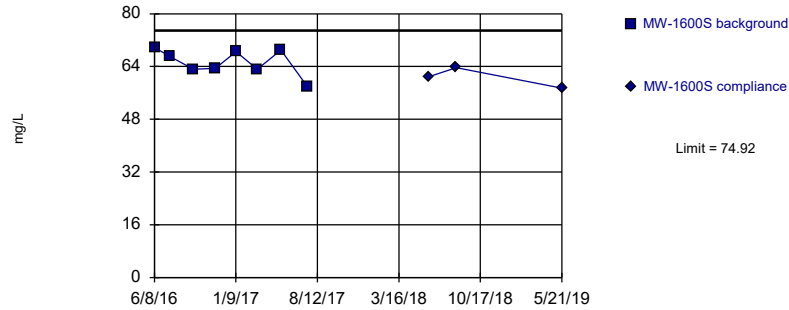


Background Data Summary: Mean=76.56, Std. Dev.=2.637, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9344, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

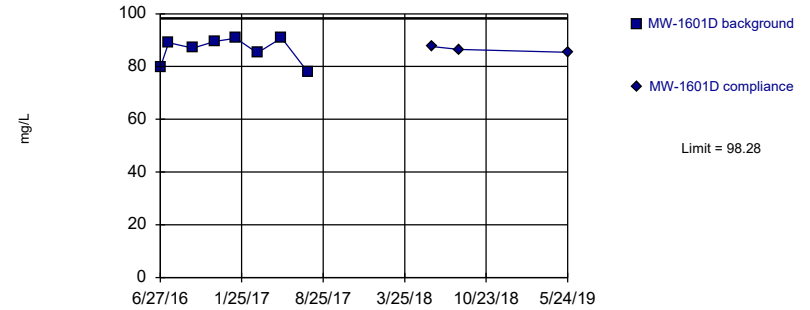


Background Data Summary: Mean=65.28, Std. Dev.=4.007, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9068, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

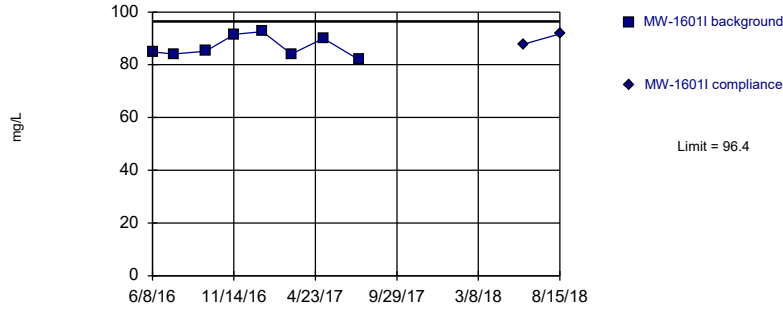


Background Data Summary: Mean=86.2, Std. Dev.=5.018, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8541, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

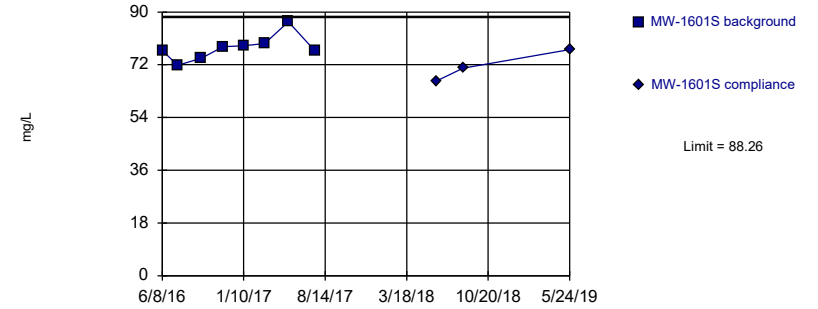


Background Data Summary: Mean=86.8, Std. Dev.=3.987, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8747, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

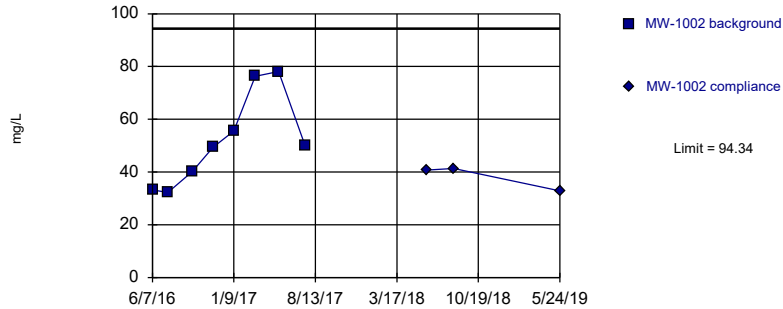


Background Data Summary: Mean=77.79, Std. Dev.=4.352, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9074, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

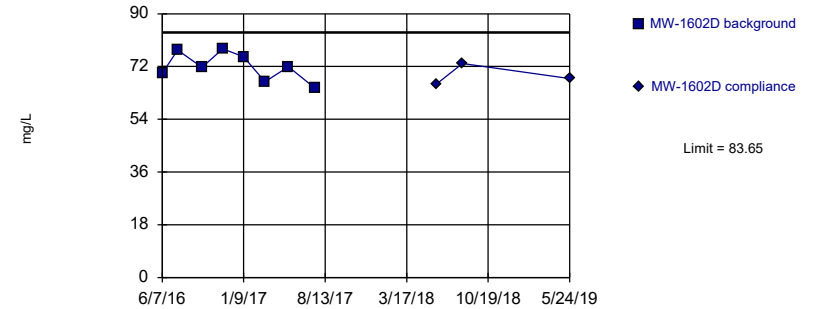


Background Data Summary: Mean=51.88, Std. Dev.=17.64, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8924, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

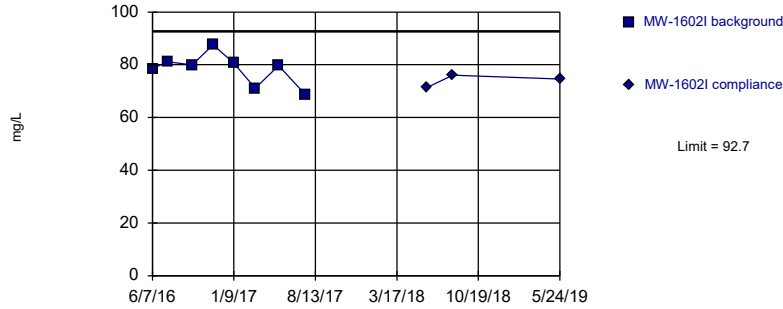


Background Data Summary: Mean=71.95, Std. Dev.=4.861, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9467, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

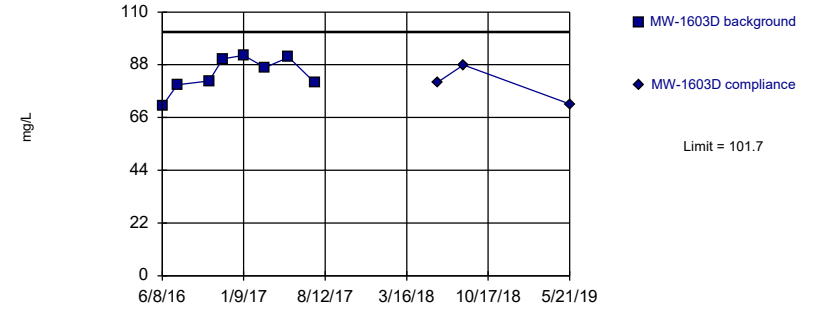


Background Data Summary: Mean=78.43, Std. Dev.=5.93, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.902, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

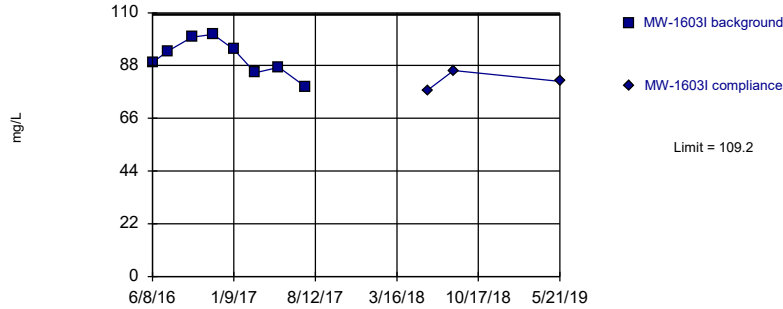


Background Data Summary: Mean=84.04, Std. Dev.=7.342, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9054, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

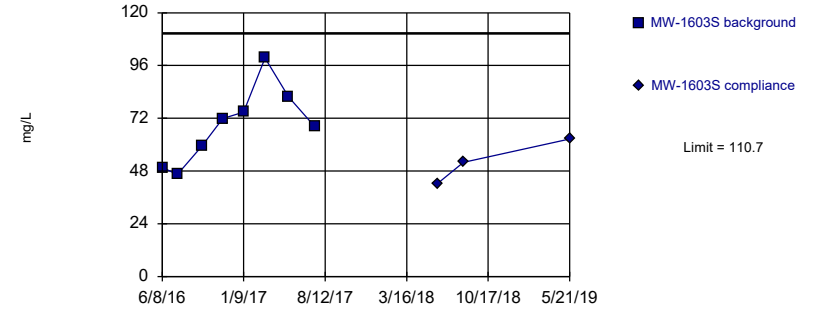


Background Data Summary: Mean=91.26, Std. Dev.=7.46, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9648, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

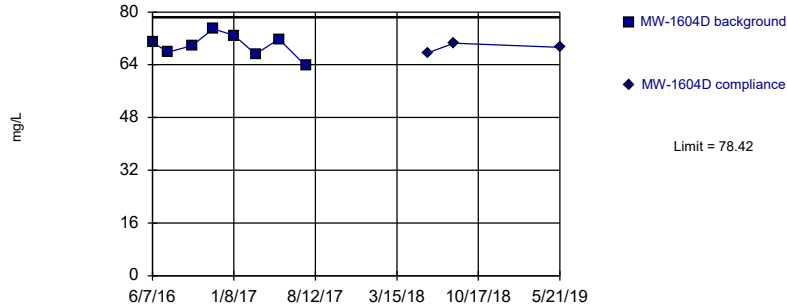
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=68.9, Std. Dev.=17.36, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

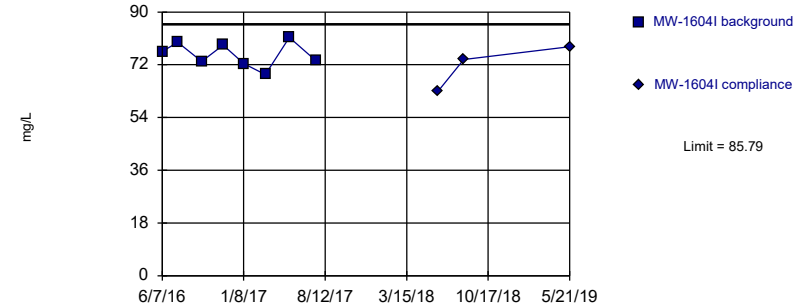
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=69.86, Std. Dev.=3.557, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.984, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

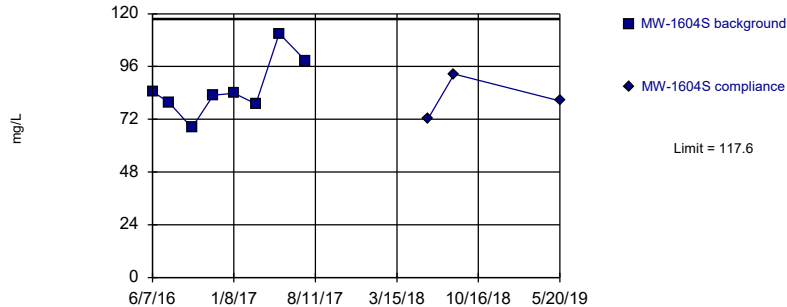
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=75.49, Std. Dev.=4.278, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

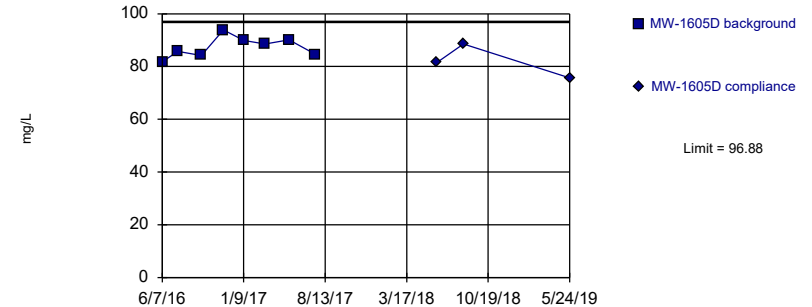
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=85.99, Std. Dev.=13.13, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit Prediction Limit
Intrawell Parametric

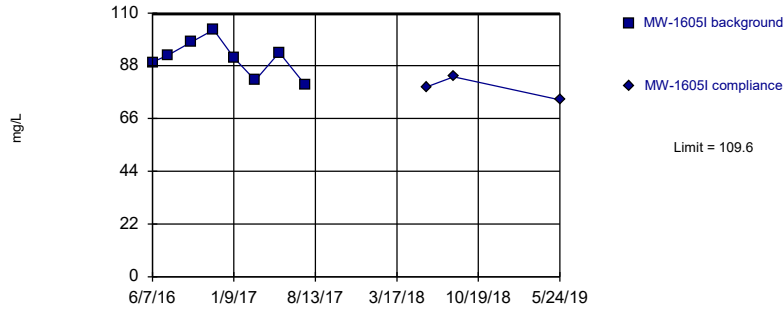


Background Data Summary: Mean=87.33, Std. Dev.=3.972, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9666, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

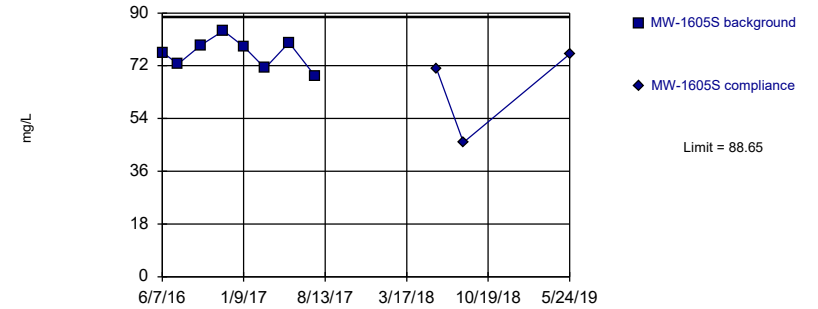


Background Data Summary: Mean=91.19, Std. Dev.=7.636, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9611, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

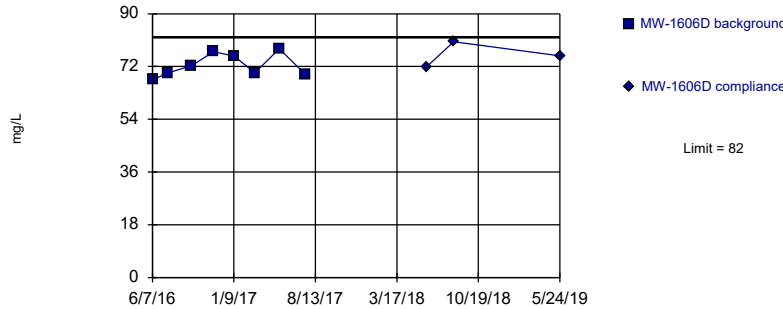


Background Data Summary: Mean=76.31, Std. Dev.=5.127, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

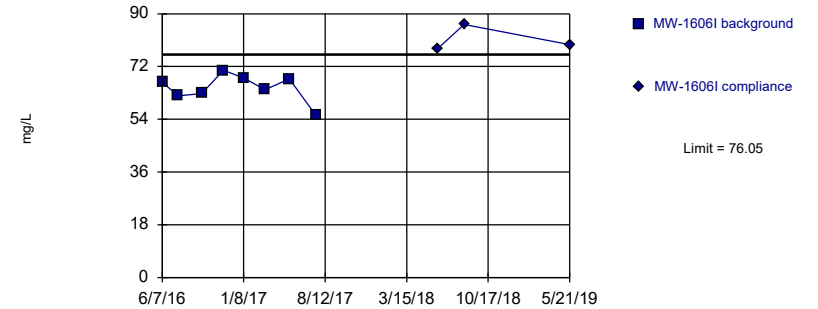


Background Data Summary: Mean=72.45, Std. Dev.=3.97, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9055, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limit

Prediction Limit
Intrawell Parametric

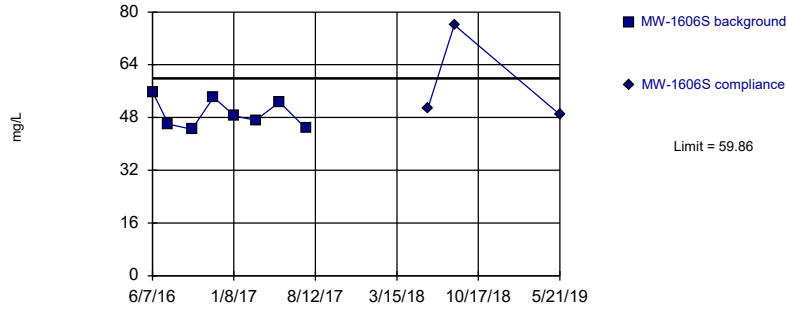


Background Data Summary: Mean=64.69, Std. Dev.=4.721, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limit

Prediction Limit
Intrawell Parametric

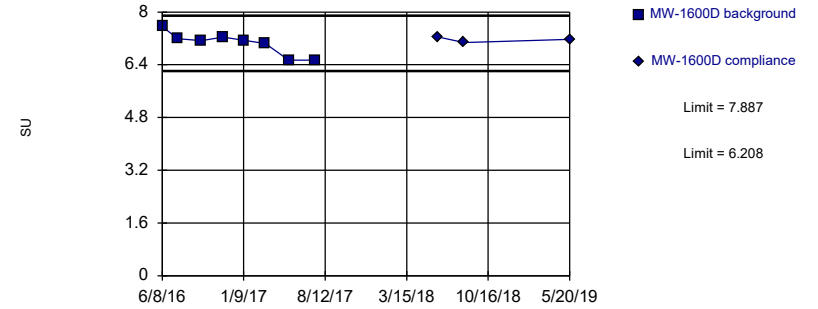


Background Data Summary: Mean=49.18, Std. Dev.=4.437, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8962, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Calcium, total Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

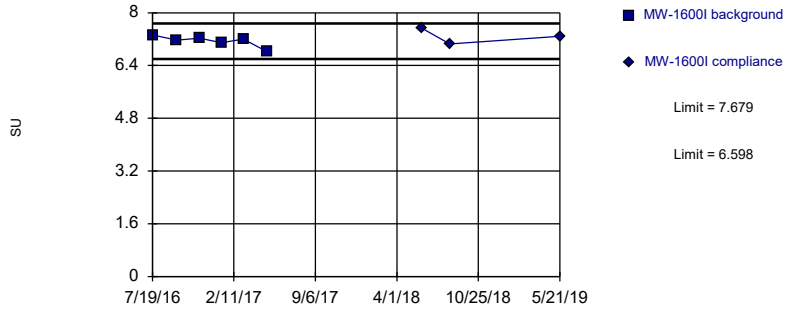


Background Data Summary: Mean=7.048, Std. Dev.=0.3486, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8807, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

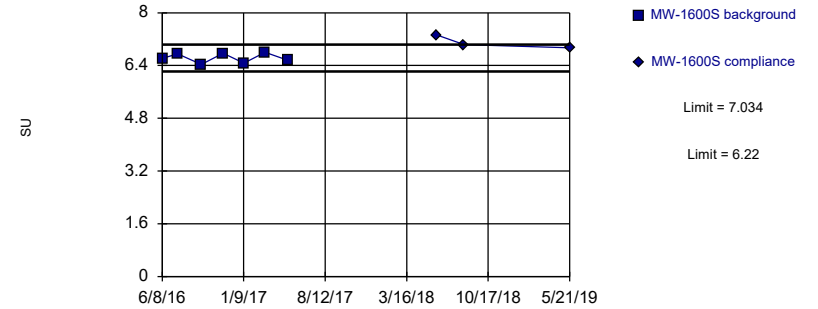


Background Data Summary: Mean=7.138, Std. Dev.=0.1789, n=6. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8846, critical = 0.713. Kappa = 3.019 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

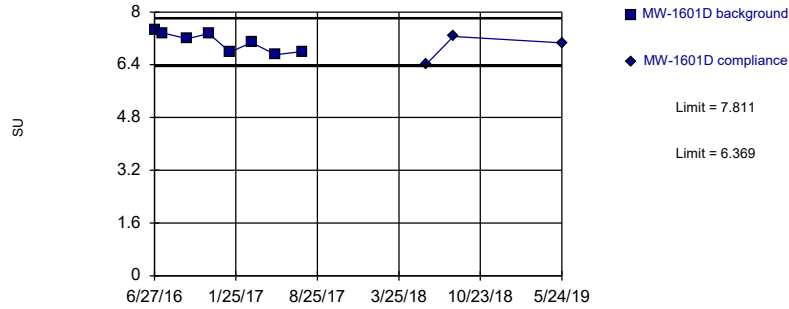


Background Data Summary: Mean=6.627, Std. Dev.=0.15, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9056, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

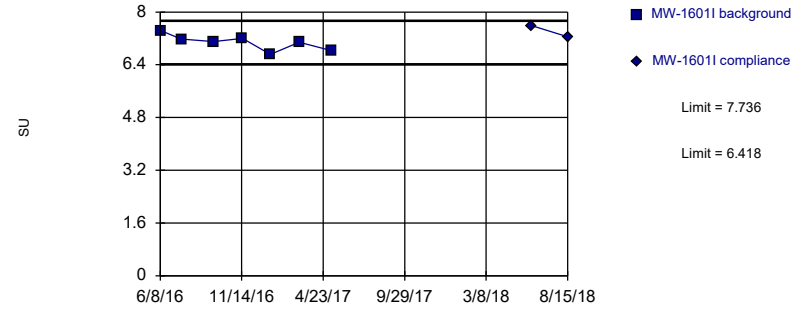


Background Data Summary: Mean=7.09, Std. Dev.=0.2994, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9013, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

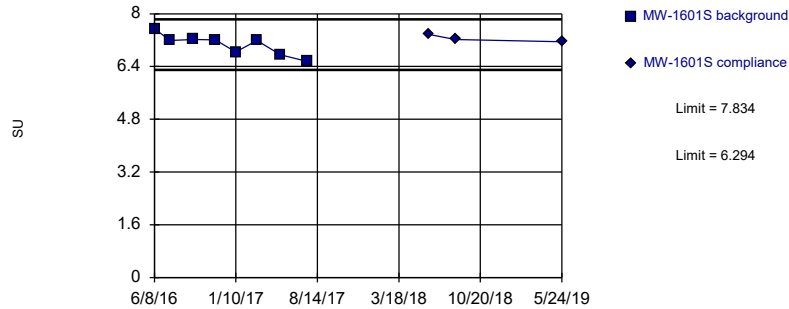


Background Data Summary: Mean=7.077, Std. Dev.=0.2428, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

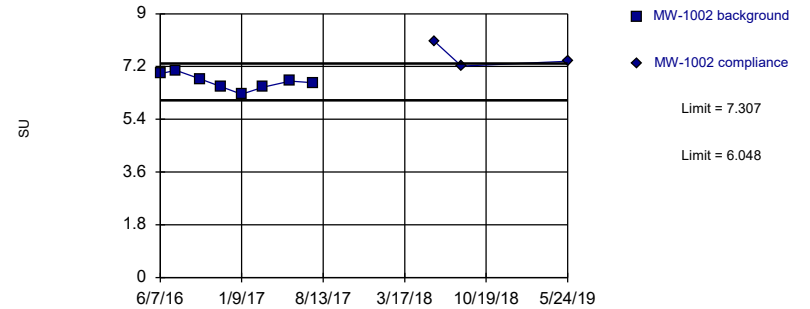


Background Data Summary: Mean=7.064, Std. Dev.=0.3199, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9212, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limits

Prediction Limit
Intrawell Parametric

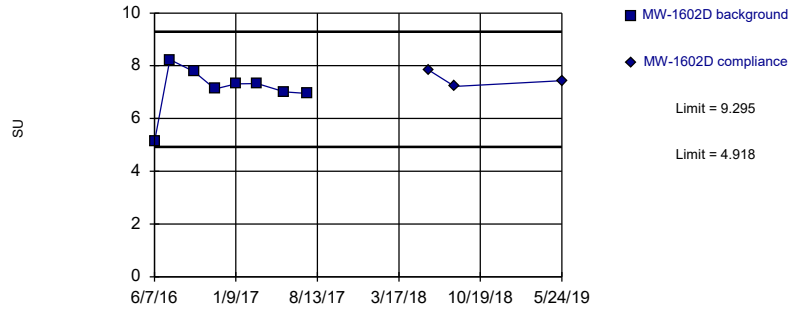


Background Data Summary: Mean=6.678, Std. Dev.=0.2616, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9843, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

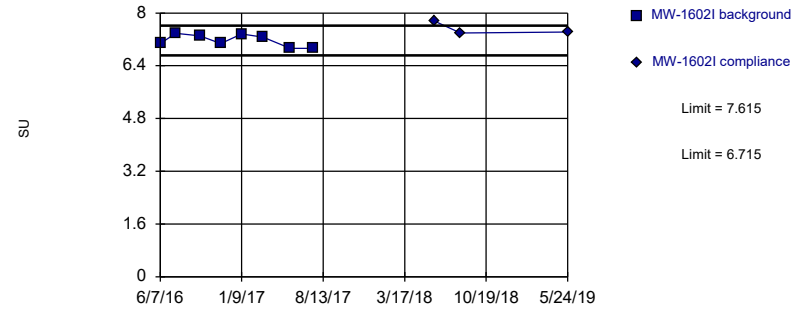


Background Data Summary: Mean=7.106, Std. Dev.=0.9093, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

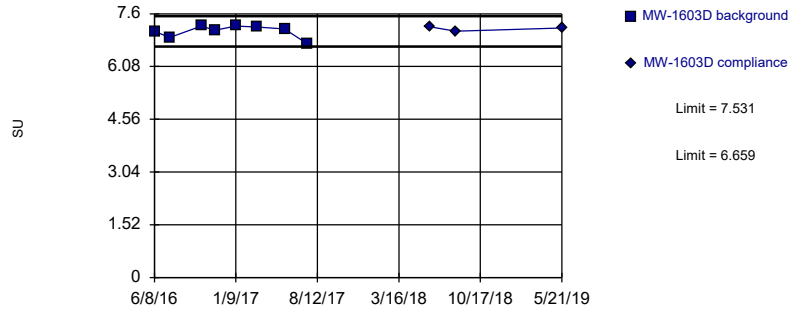


Background Data Summary: Mean=7.165, Std. Dev.=0.187, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8698, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

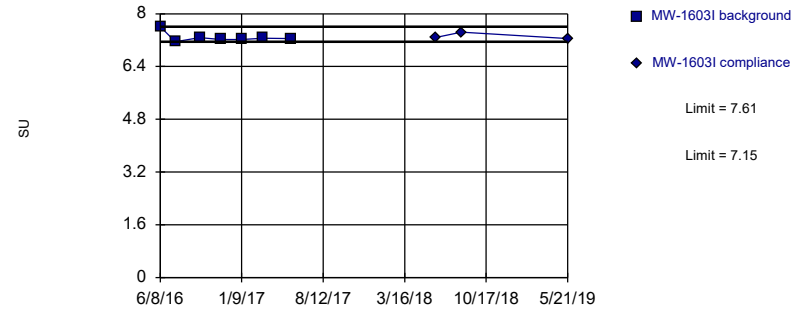


Background Data Summary: Mean=7.095, Std. Dev.=0.181, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8394, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Non-parametric

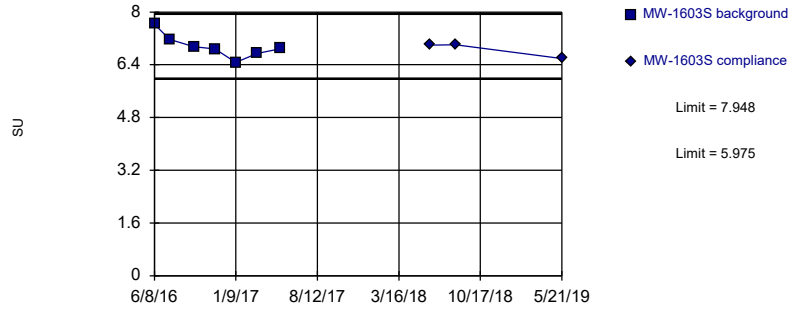


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 7 background values. Well-constituent pair annual alpha = 0.03452. Individual comparison alpha = 0.01734 (1 of 3).

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

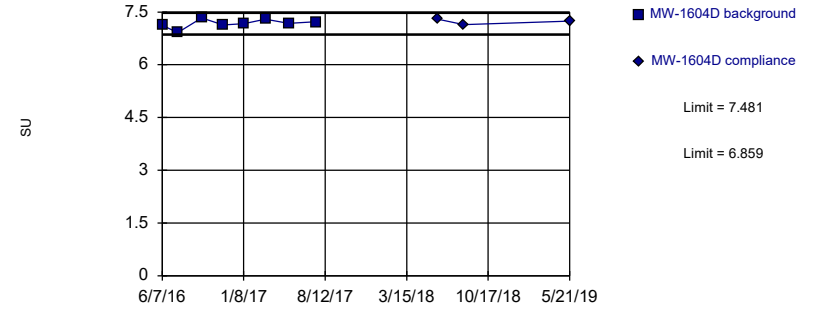


Background Data Summary: Mean=6.961, Std. Dev.=0.3635, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9397, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

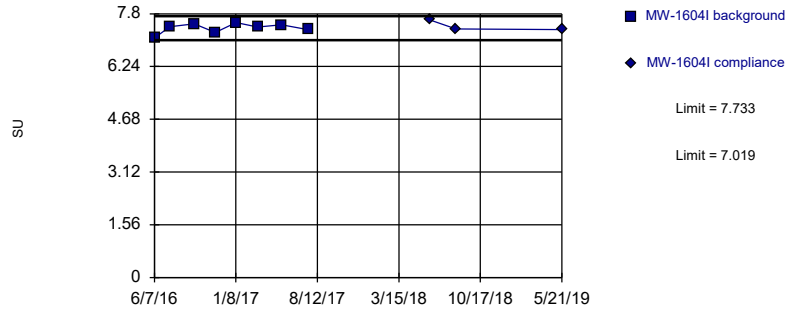


Background Data Summary: Mean=7.17, Std. Dev.=0.1292, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9176, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

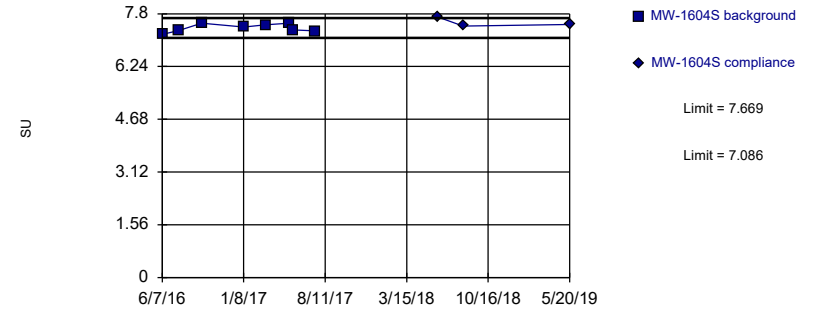


Background Data Summary: Mean=7.376, Std. Dev.=0.1483, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9201, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

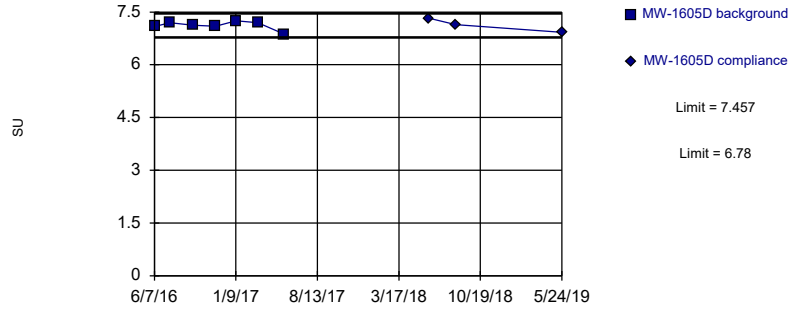


Background Data Summary: Mean=7.378, Std. Dev.=0.1209, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

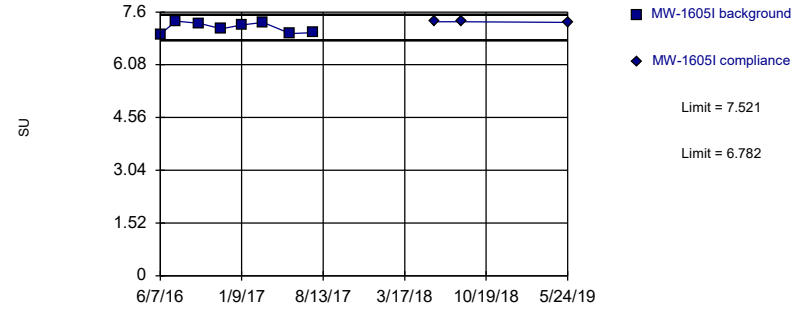


Background Data Summary: Mean=7.119, Std. Dev.=0.1248, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.864, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

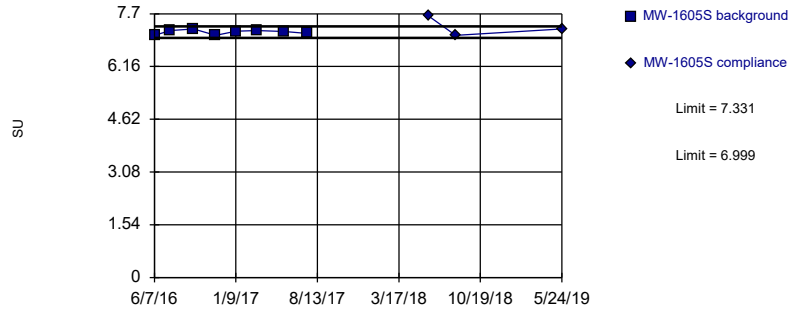


Background Data Summary: Mean=7.151, Std. Dev.=0.1535, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8883, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

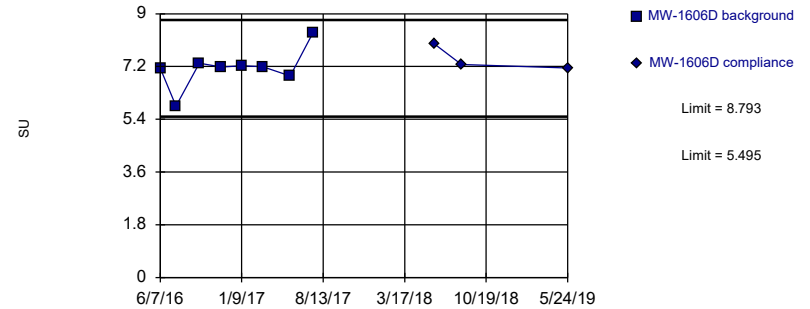


Background Data Summary: Mean=7.165, Std. Dev.=0.06887, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9097, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Within Limits

Prediction Limit
Intrawell Parametric

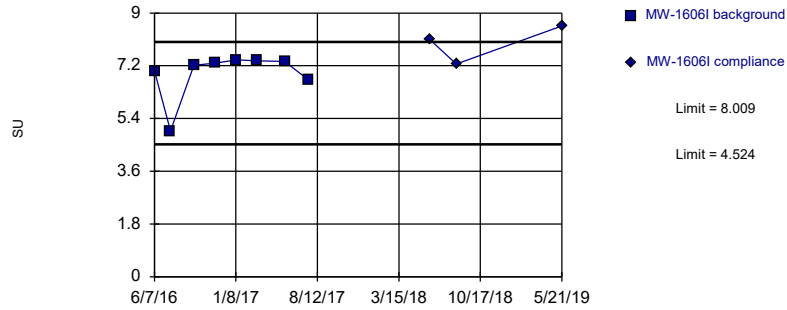


Background Data Summary: Mean=7.144, Std. Dev.=0.6851, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8564, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limits

Prediction Limit
Intrawell Parametric

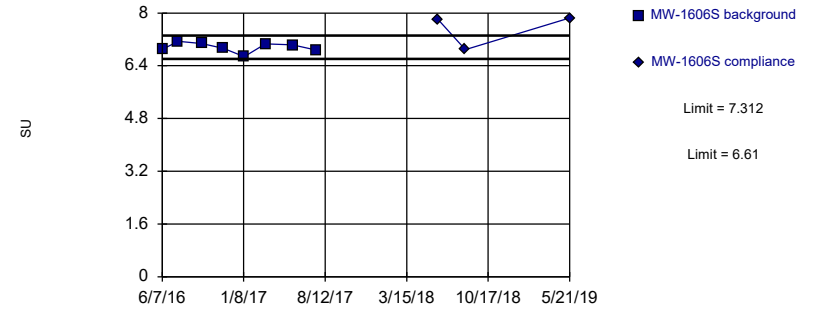


Background Data Summary (based on x^5 transformation): Mean=17422, Std. Dev.=6451, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7638, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Exceeds Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.961, Std. Dev.=0.1457, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9307, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH, field Analysis Run 8/10/2019 9:32 AM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Trend Test Summary Table - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:09 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Chloride, total (mg/L) | MW-1601S (bg) | -4.928 | -45 | -34 | Yes | 11 | 0 | n/a | n/a | 0.01 | NP |

Trend Test Summary Table - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:09 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|----------------------|---------------|------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron, total (mg/L) | MW-1600D (bg) | 0.02295 | 32 | 34 | No | 11 | 18.18 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1600I (bg) | 0.01492 | 25 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1600S (bg) | 0.01547 | 20 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1601D (bg) | 0.02128 | 19 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1601I (bg) | 0.01406 | 23 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1601S (bg) | -0.01272 | -9 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1002 | -0.05402 | -12 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1603S | -0.1056 | -16 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1604I | 0.02645 | 13 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1604S | -0.06609 | -21 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1605S | -0.02503 | -15 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1701S (bg) | 0.01877 | 7 | 18 | No | 7 | 14.29 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1702D (bg) | -0.05065 | -7 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1702I (bg) | 0.01761 | 3 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1702S (bg) | -0.009419 | -3 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1701D (bg) | -0.01171 | -3 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1701I (bg) | -0.02761 | -7 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1600D (bg) | 0.2584 | 2 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1600I (bg) | -2.043 | -20 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1600S (bg) | -2.79 | -24 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1601D (bg) | -0.5984 | -3 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1601I (bg) | 1.456 | 7 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1601S (bg) | 0.1014 | 1 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1606I | 5.808 | 23 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1701S (bg) | 3.307 | 3 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1702D (bg) | 7.617 | 13 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1702I (bg) | 3.434 | 6 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1702S (bg) | -5.942 | -5 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1701D (bg) | -1.36 | -3 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Calcium, total (mg/L) | MW-1701I (bg) | -3.211 | -3 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1600D (bg) | 0.1862 | 10 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1600I (bg) | -0.4585 | -8 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1600S (bg) | 1.315 | 5 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1601D (bg) | 0.6192 | 8 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1601I (bg) | -0.2483 | -6 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1601S (bg) | -4.928 | -45 | -34 | Yes | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1002 | -0.6852 | -5 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1602D | -27.62 | -27 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1603S | 0.3719 | 3 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1604I | -1.432 | -7 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1604S | 3.671 | 9 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1701S (bg) | 0.646 | 14 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1702D (bg) | 0.3925 | 4 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1702I (bg) | 2.221 | 13 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1702S (bg) | 0.7935 | 12 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1701D (bg) | -2.517 | -7 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1701I (bg) | 0.6404 | 4 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1600D (bg) | 0.007157 | 11 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1600I (bg) | 0.005028 | 6 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1600S (bg) | 0.0765 | 30 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1601D (bg) | 0 | -7 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1601I (bg) | 0 | 5 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1601S (bg) | 0.0266 | 8 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1002 | -0.005313 | -7 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1604S | 0.0338 | 9 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |

Trend Test Summary Table - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:09 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------------|---------------|----------|-------|----------|------|----|------|-----------|-------|-------|--------|
| Fluoride, total (mg/L) | MW-1701S (bg) | 0.047 | 15 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1702D (bg) | 0 | -1 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1702I (bg) | 0.006966 | 3 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1702S (bg) | 0.09865 | 7 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1701D (bg) | 0.02776 | 4 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1701I (bg) | 0.02755 | 8 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1600D (bg) | -0.1043 | -16 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1600I (bg) | -0.04412 | -4 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1600S (bg) | 0.1596 | 21 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1601D (bg) | -0.27 | -27 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1601I (bg) | -0.06518 | -2 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1601S (bg) | -0.06577 | -15 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1002 | 0.2071 | 11 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1606I | 0.5034 | 25 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1606S | -0.01798 | -3 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1701S (bg) | -0.3278 | -15 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1702D (bg) | -0.1463 | -5 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1702I (bg) | -0.2577 | -3 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1702S (bg) | -0.5829 | -5 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1701D (bg) | 0 | 0 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| pH, field (SU) | MW-1701I (bg) | 0.1177 | 3 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1600D (bg) | 0 | 0 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1600I (bg) | 0.9374 | 9 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1600S (bg) | -11.24 | -27 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1601D (bg) | 1.598 | 13 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1601I (bg) | 0 | 2 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1601S (bg) | -1.076 | -3 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1002 | 8.975 | 17 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1603S | 9.522 | 12 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1604I | -3.131 | -2 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1604S | 0.4834 | 2 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1605I | -12.79 | -31 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1605S | -8.343 | -17 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1701S (bg) | -1.253 | -15 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1702D (bg) | -2.682 | -12 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1702I (bg) | -3.699 | -6 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1702S (bg) | -2.544 | -13 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1701D (bg) | 1.78 | 1 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1701I (bg) | -4.193 | -8 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600D (bg) | -6.7 | -13 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600I (bg) | -7.276 | -9 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600S (bg) | -13.97 | -19 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1601D (bg) | -10.11 | -12 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1601I (bg) | -2.407 | -10 | -30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1601S (bg) | -21.36 | -8 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1603I | -26.97 | -33 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1603S | 14.97 | 25 | 30 | No | 10 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1604I | -8.941 | -7 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1604S | 16.24 | 17 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1605S | -1.17 | -2 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1701S (bg) | -10.97 | -3 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1702D (bg) | 27.86 | 17 | 18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1702I (bg) | 8.975 | 4 | 14 | No | 6 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1702S (bg) | -7.065 | -4 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1701D (bg) | -18.19 | -7 | -14 | No | 6 | 0 | n/a | n/a | 0.01 | NP |

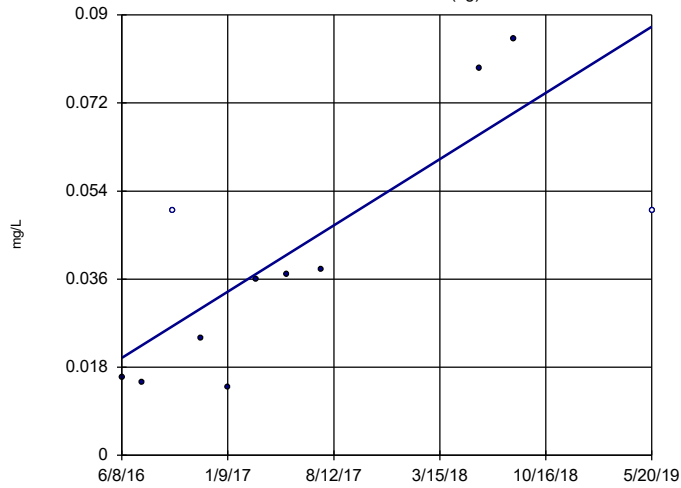
Trend Test Summary Table - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:09 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Total Dissolved Solids [TDS] (mg/L) | MW-17011 (bg) | -1.534 | -2 | -18 | No | 7 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

MW-1600D (bg)

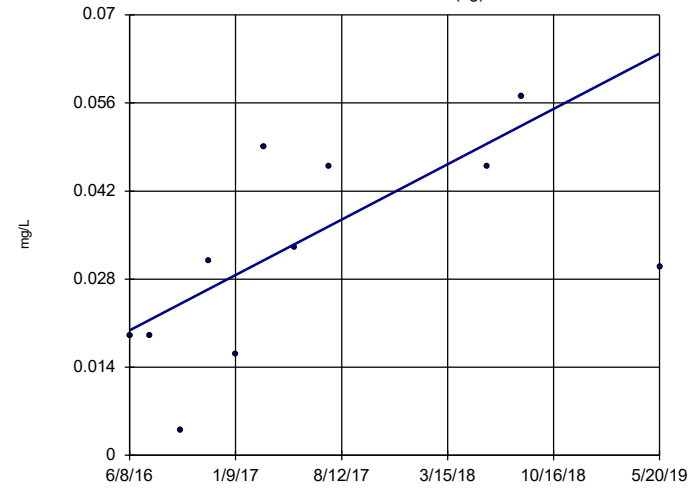


n = 11
Slope = 0.02295
units per year.
Mann-Kendall
statistic = 32
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600I (bg)

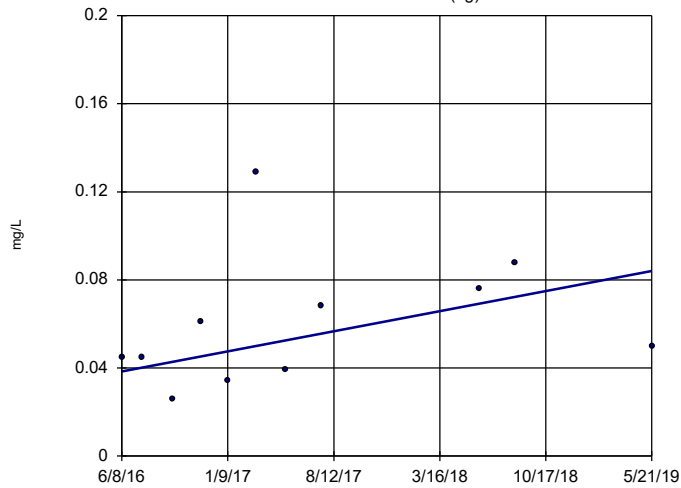


n = 11
Slope = 0.01492
units per year.
Mann-Kendall
statistic = 25
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600S (bg)

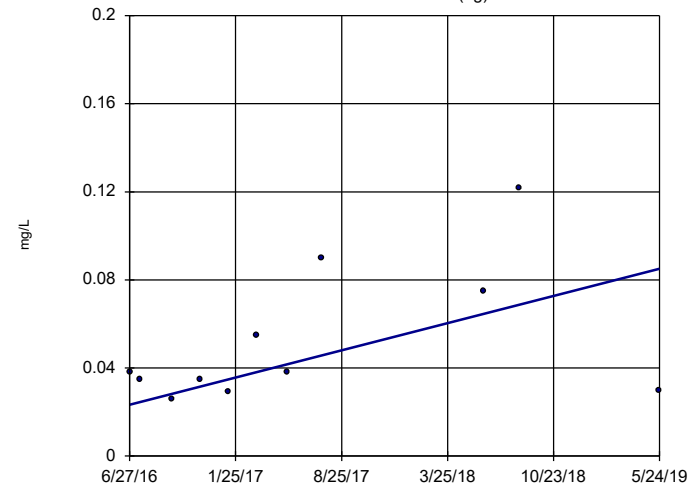


n = 11
Slope = 0.01547
units per year.
Mann-Kendall
statistic = 20
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601D (bg)

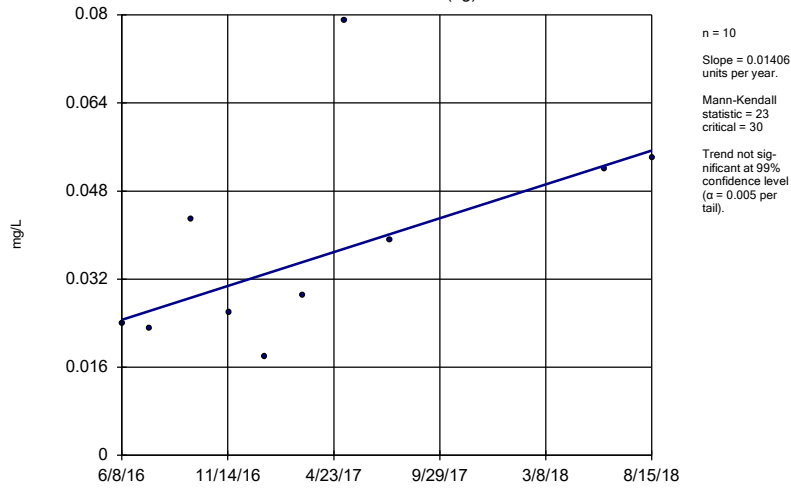


n = 11
Slope = 0.02128
units per year.
Mann-Kendall
statistic = 19
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

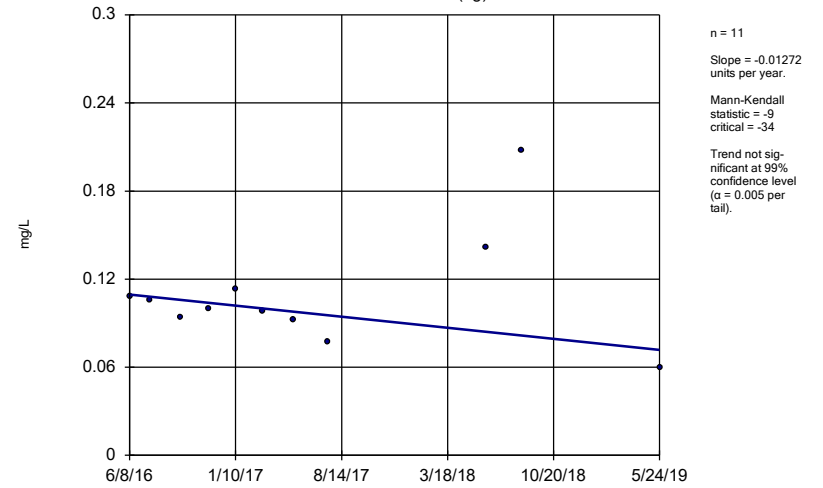
MW-16011 (bg)



Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

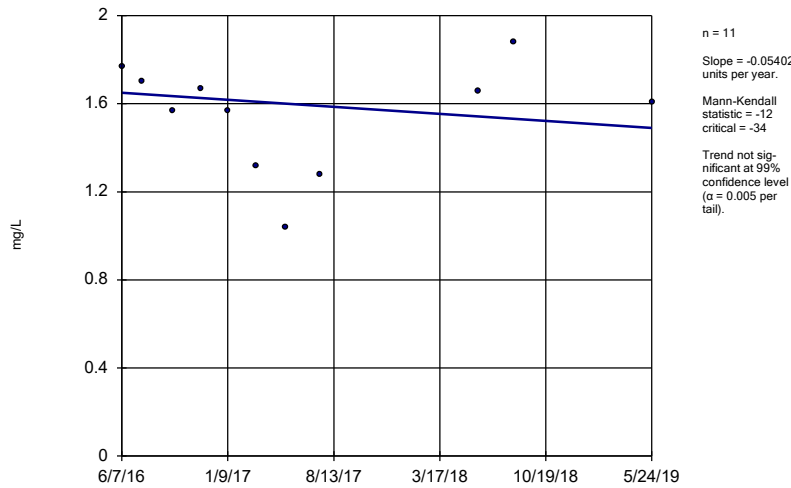
MW-1601S (bg)



Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

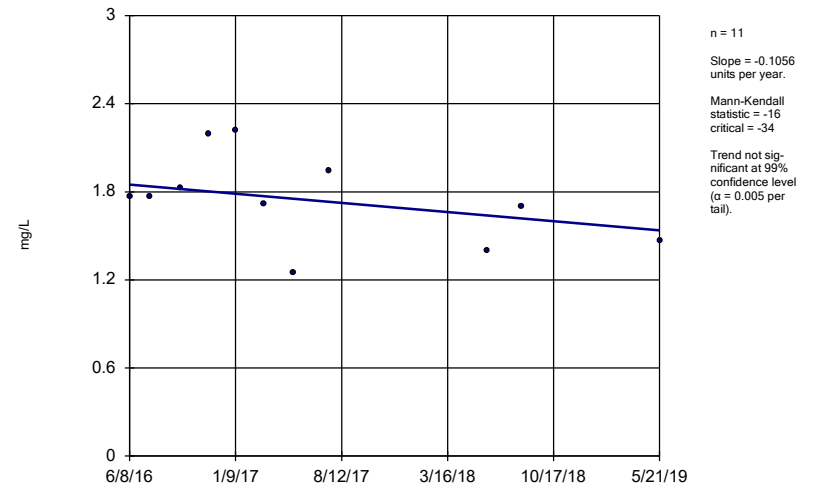
MW-1002



Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

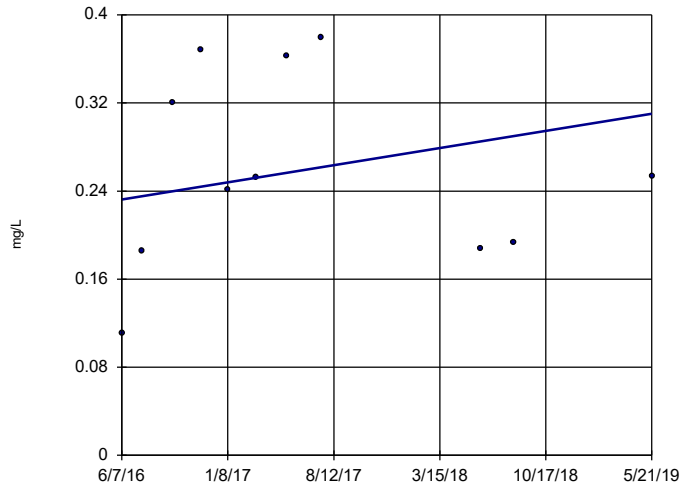
MW-1603S



Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1604I

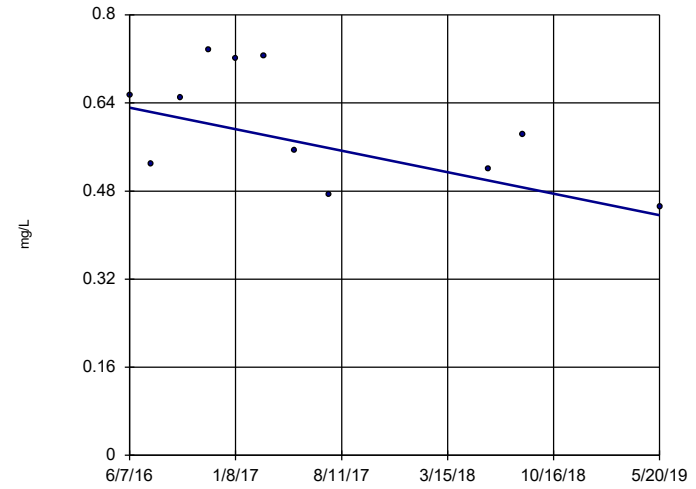


n = 11
 Slope = 0.02645 units per year.
 Mann-Kendall statistic = 13
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1604S

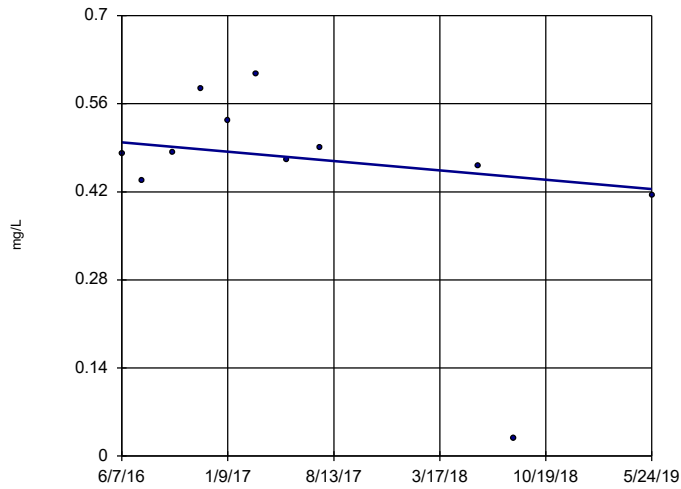


n = 11
 Slope = -0.06609 units per year.
 Mann-Kendall statistic = -21
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1605S



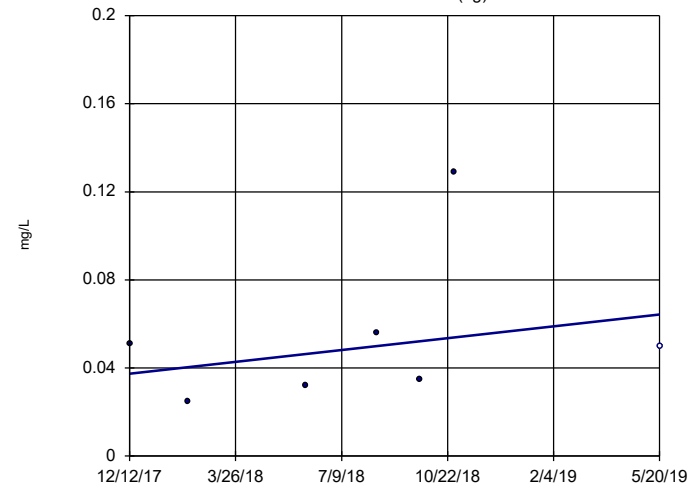
n = 11
 Slope = -0.02503 units per year.
 Mann-Kendall statistic = -15
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-1701S (bg)

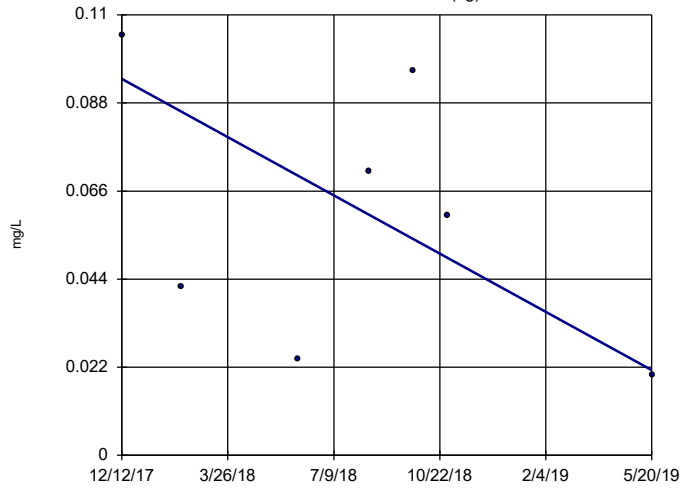


n = 7
 Slope = 0.01877 units per year.
 Mann-Kendall statistic = 7
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702D (bg)

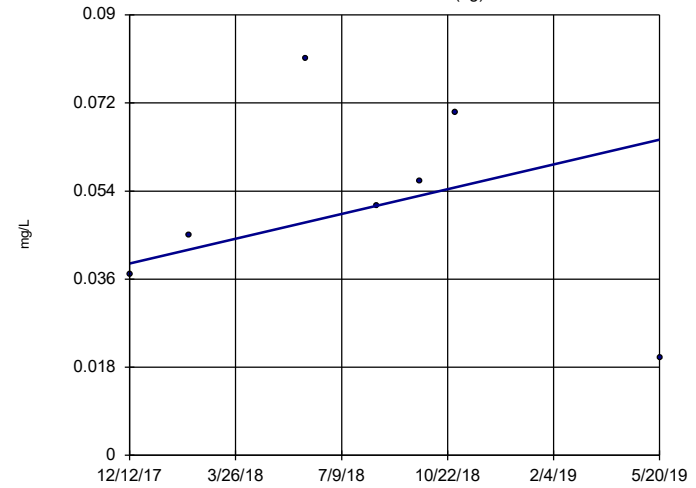


n = 7
 Slope = -0.05065 units per year.
 Mann-Kendall statistic = -7
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702I (bg)

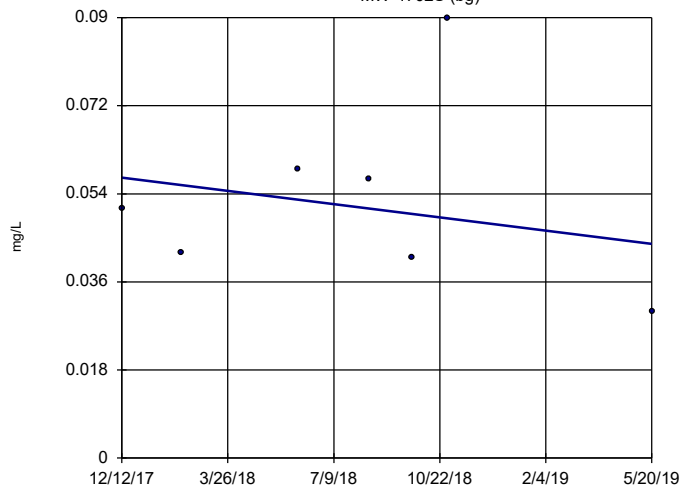


n = 7
 Slope = 0.01761 units per year.
 Mann-Kendall statistic = 3
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702S (bg)

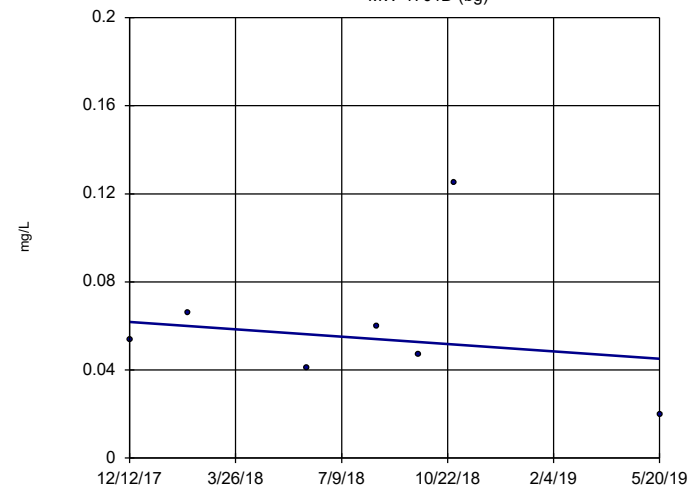


n = 7
 Slope = -0.009419 units per year.
 Mann-Kendall statistic = -3
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701D (bg)

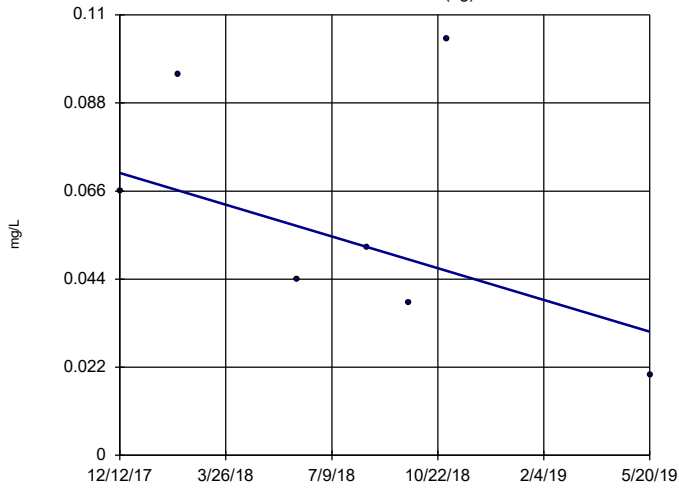


n = 7
 Slope = -0.01171 units per year.
 Mann-Kendall statistic = -3
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-17011 (bg)

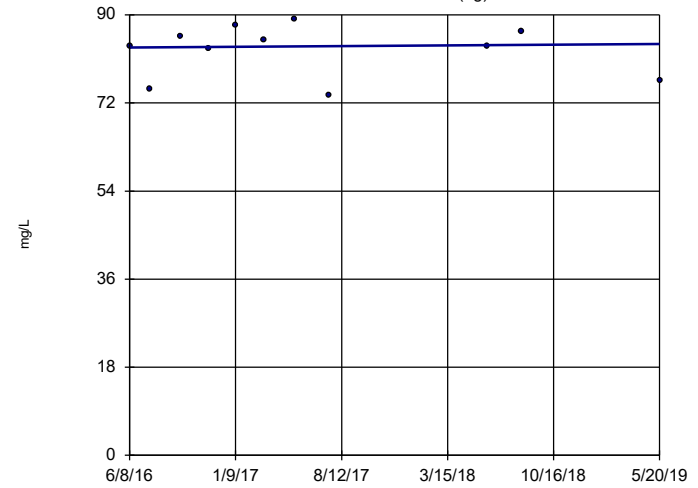


n = 7
 Slope = -0.02761 units per year.
 Mann-Kendall statistic = -7
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600D (bg)

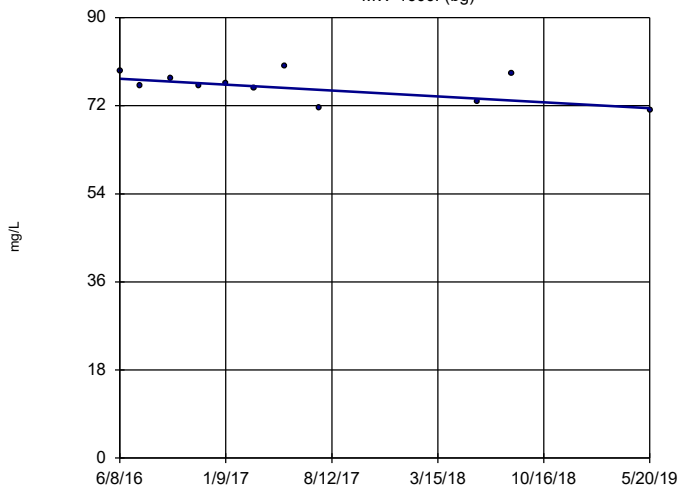


n = 11
 Slope = 0.2584 units per year.
 Mann-Kendall statistic = 2
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600I (bg)

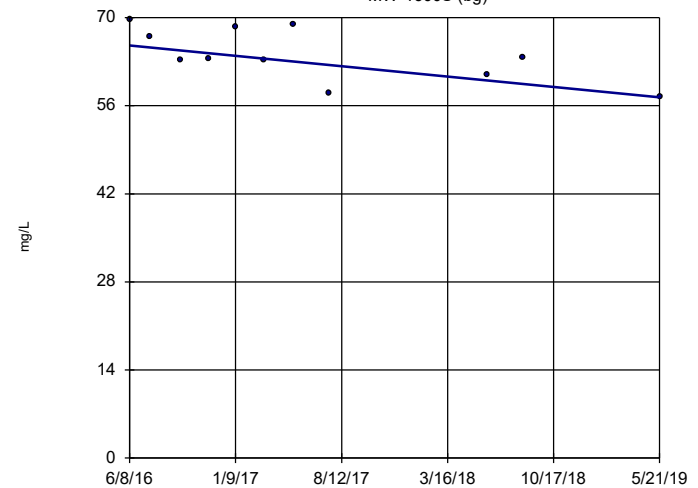


n = 11
 Slope = -2.043 units per year.
 Mann-Kendall statistic = -20
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600S (bg)

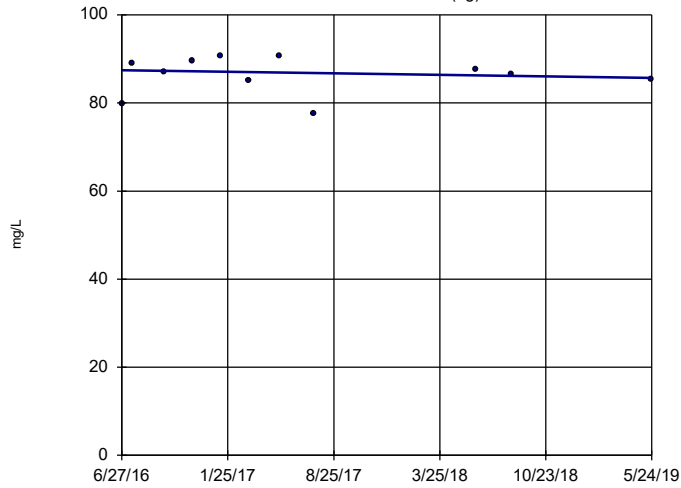


n = 11
 Slope = -2.79 units per year.
 Mann-Kendall statistic = -24
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601D (bg)

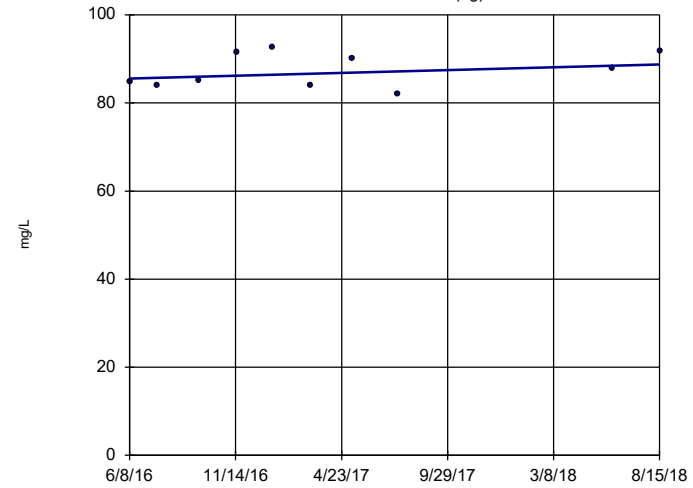


n = 11
 Slope = -0.5984 units per year.
 Mann-Kendall statistic = -3
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601I (bg)

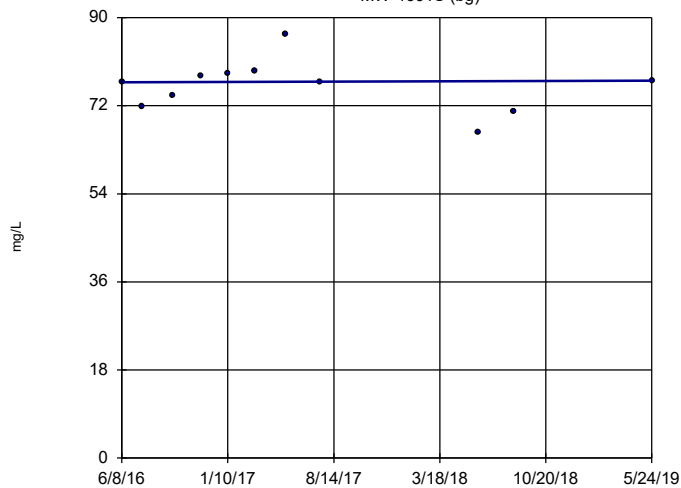


n = 10
 Slope = 1.456 units per year.
 Mann-Kendall statistic = 7
 critical = 30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601S (bg)

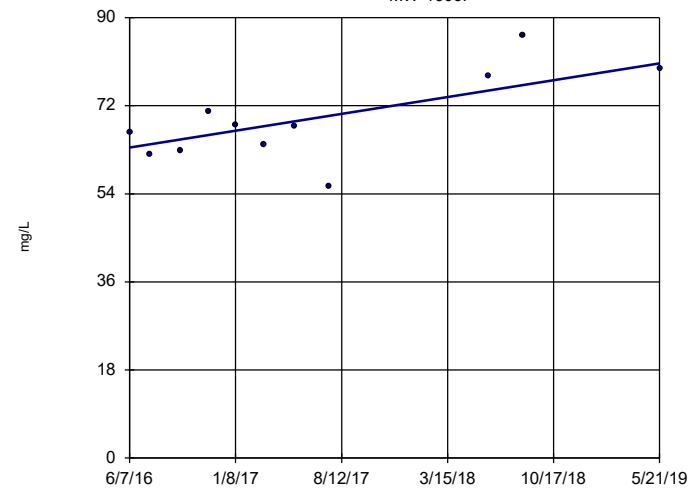


n = 11
 Slope = 0.1014 units per year.
 Mann-Kendall statistic = 1
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1606I

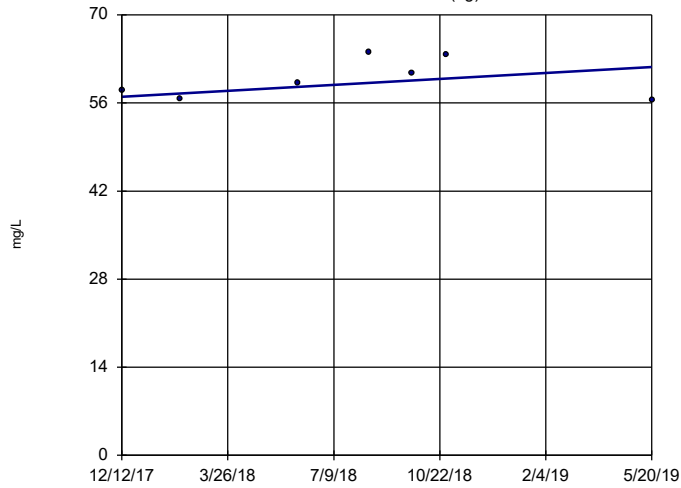


n = 11
 Slope = 5.808 units per year.
 Mann-Kendall statistic = 23
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701S (bg)

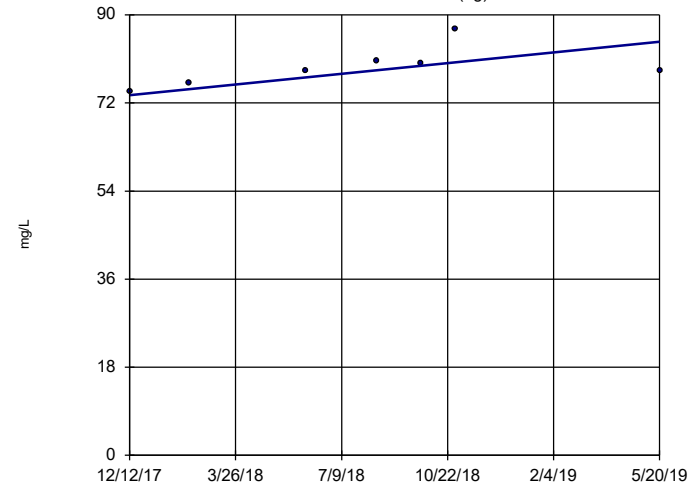


n = 7
 Slope = 3.307 units per year.
 Mann-Kendall statistic = 3
 critical = 18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702D (bg)

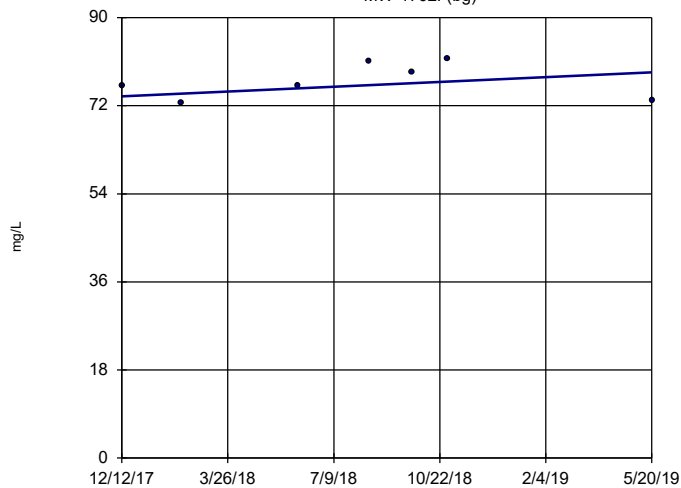


n = 7
 Slope = 7.617 units per year.
 Mann-Kendall statistic = 13
 critical = 18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702I (bg)

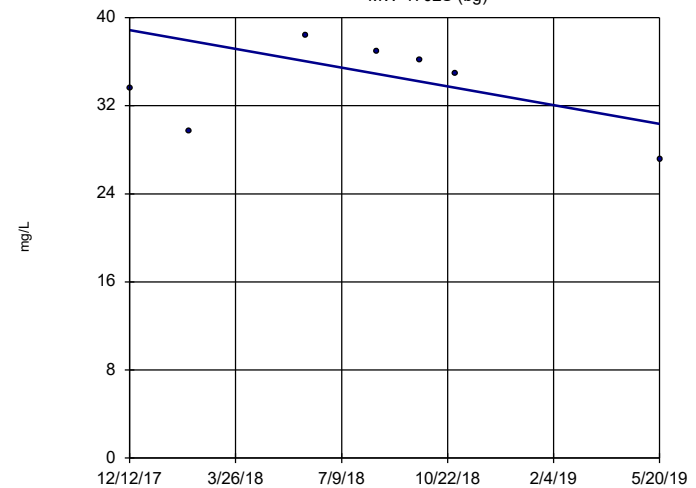


n = 7
 Slope = 3.434 units per year.
 Mann-Kendall statistic = 6
 critical = 18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702S (bg)

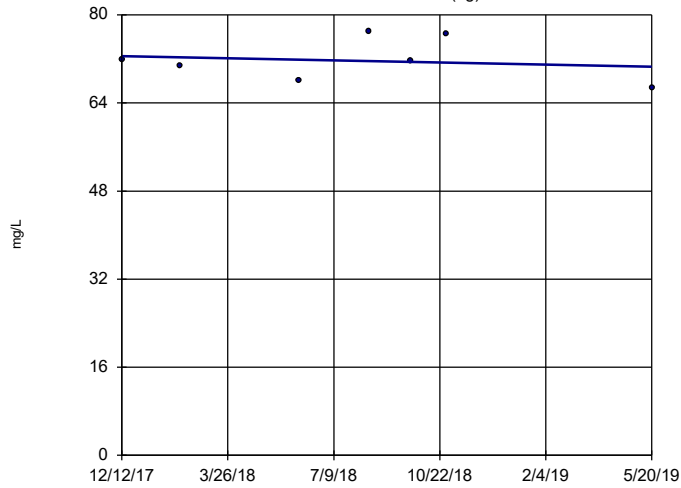


n = 7
 Slope = -5.942 units per year.
 Mann-Kendall statistic = -5
 critical = -18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701D (bg)

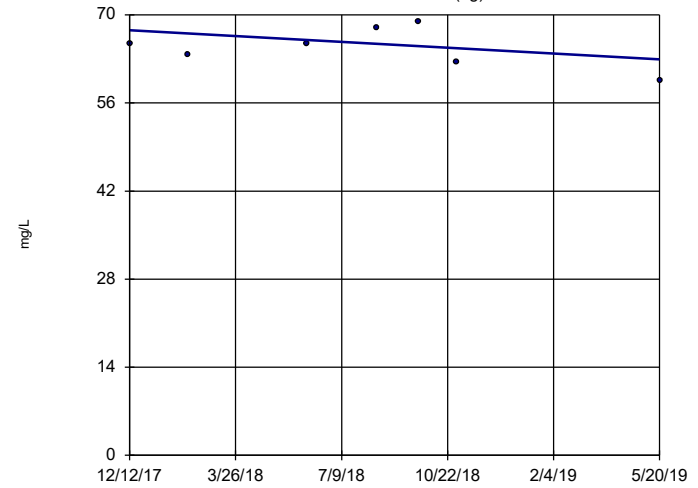


n = 7
 Slope = -1.36 units per year.
 Mann-Kendall statistic = -3
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701I (bg)

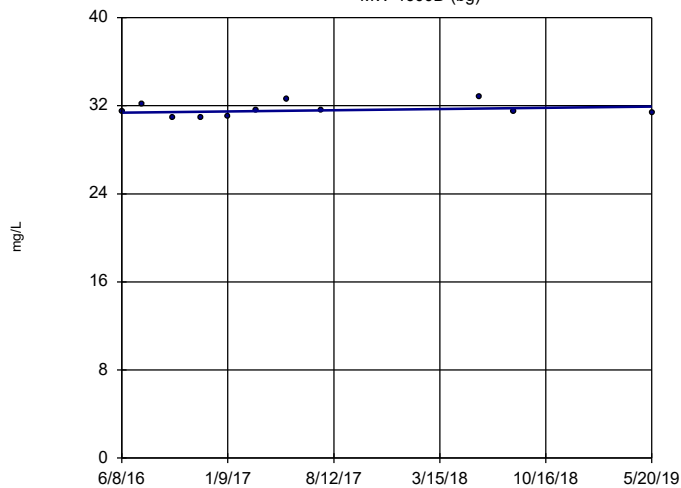


n = 7
 Slope = -3.211 units per year.
 Mann-Kendall statistic = -3
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600D (bg)

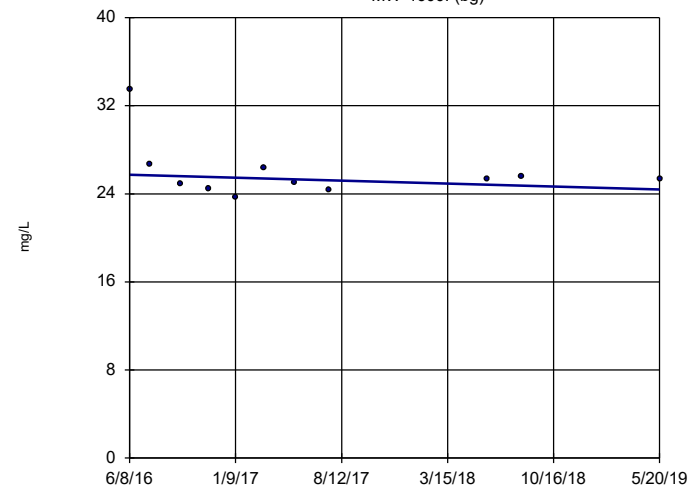


n = 11
 Slope = 0.1862 units per year.
 Mann-Kendall statistic = 10
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600I (bg)

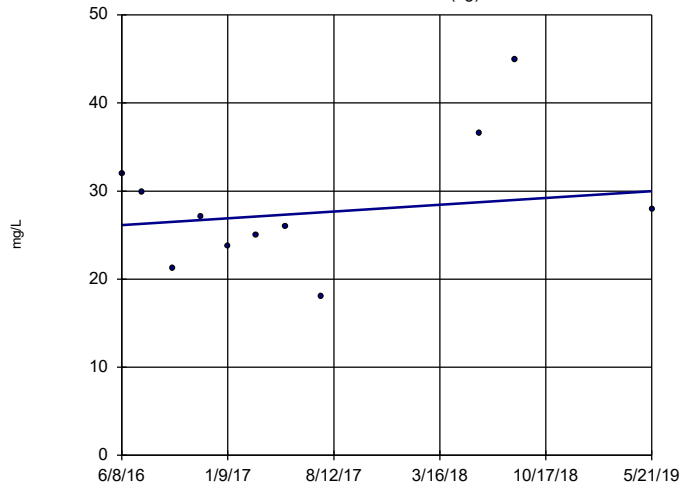


n = 11
 Slope = -0.4585 units per year.
 Mann-Kendall statistic = -8
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:05 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600S (bg)

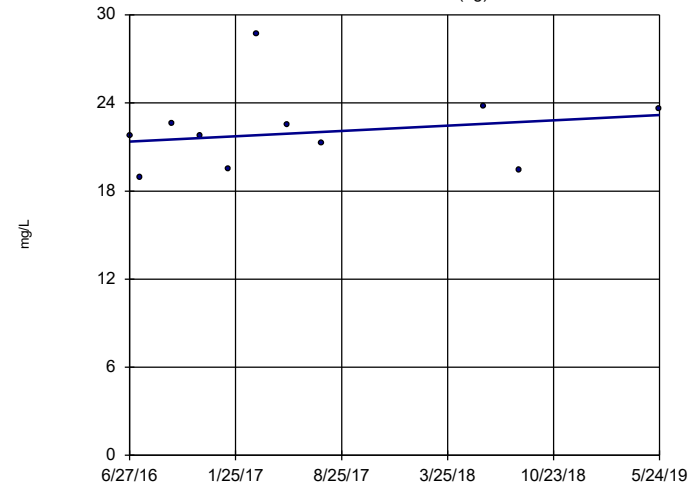


n = 11
 Slope = 1.315 units per year.
 Mann-Kendall statistic = 5
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601D (bg)

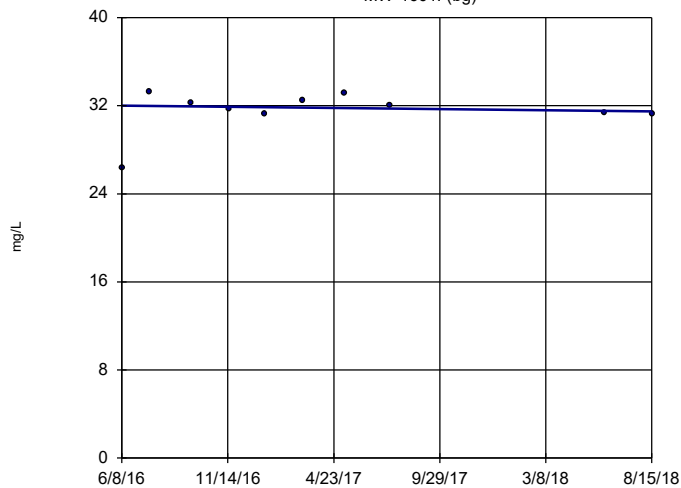


n = 11
 Slope = 0.6192 units per year.
 Mann-Kendall statistic = 8
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601I (bg)

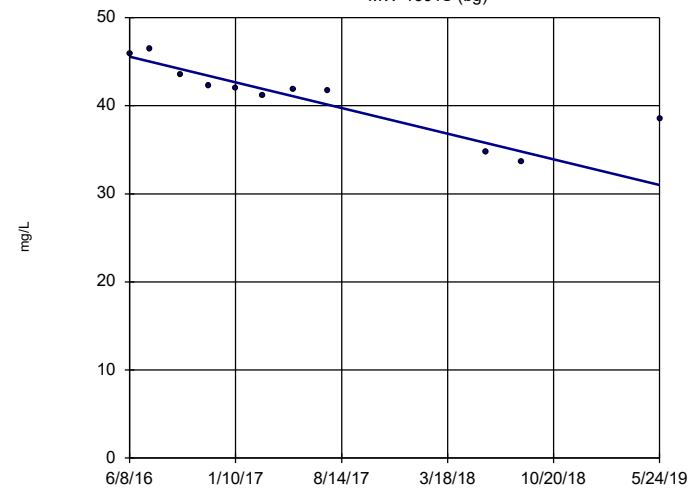


n = 10
 Slope = -0.2483 units per year.
 Mann-Kendall statistic = -6
 critical = -30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601S (bg)

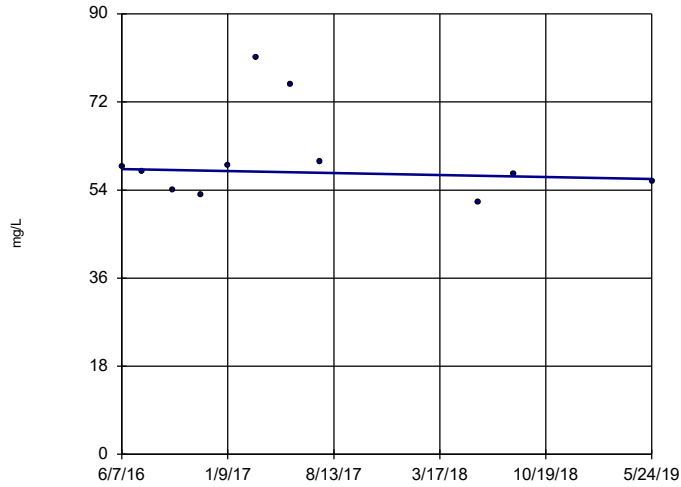


n = 11
 Slope = -4.928 units per year.
 Mann-Kendall statistic = -45
 critical = -34
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1002

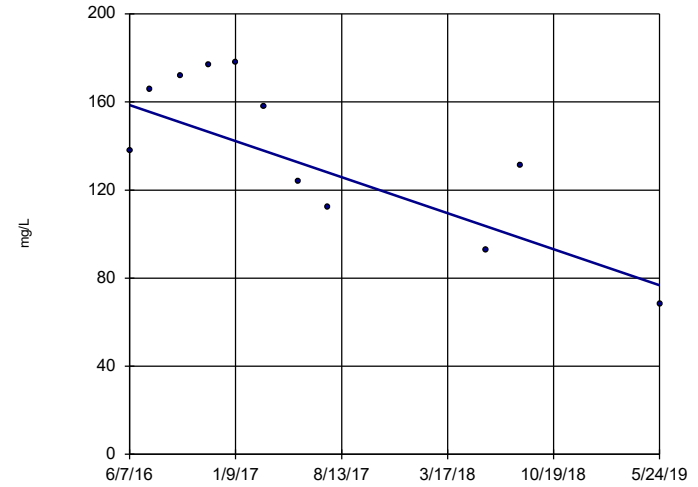


n = 11
 Slope = -0.6852 units per year.
 Mann-Kendall statistic = -5
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1602D

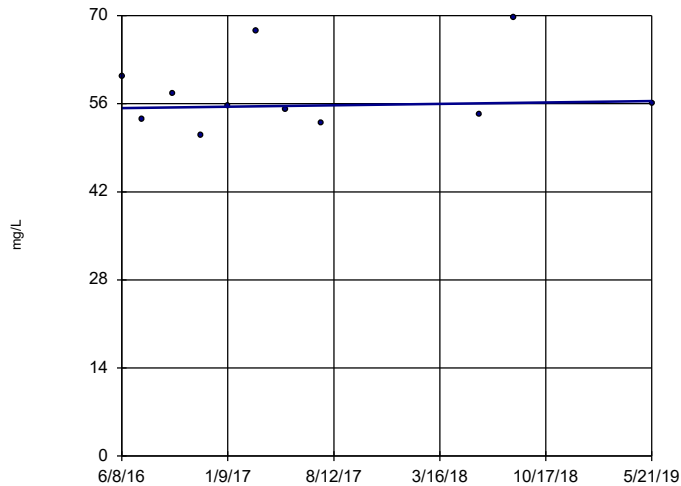


n = 11
 Slope = -27.62 units per year.
 Mann-Kendall statistic = -27
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1603S

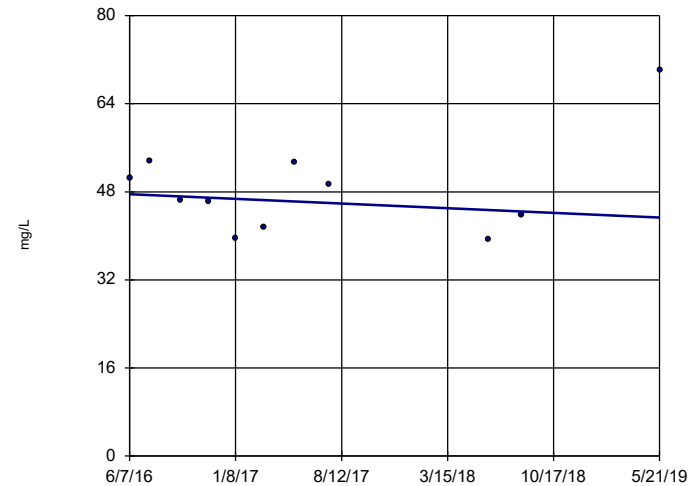


n = 11
 Slope = 0.3719 units per year.
 Mann-Kendall statistic = 3
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1604I

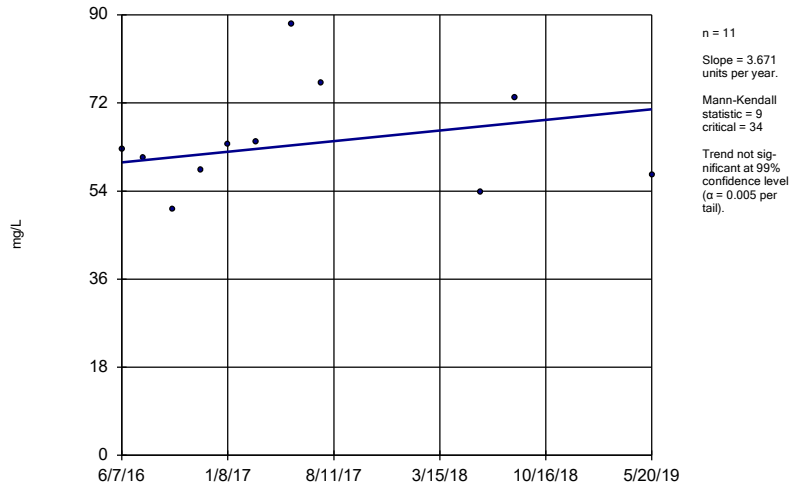


n = 11
 Slope = -1.432 units per year.
 Mann-Kendall statistic = -7
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

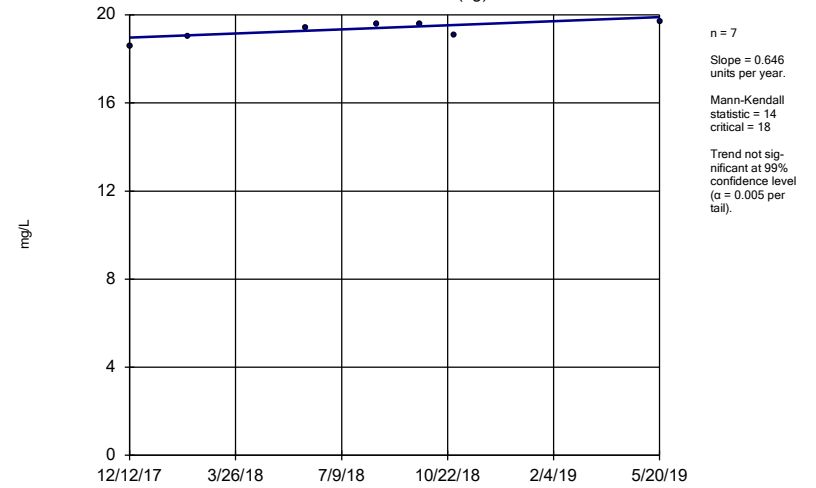
MW-1604S



Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

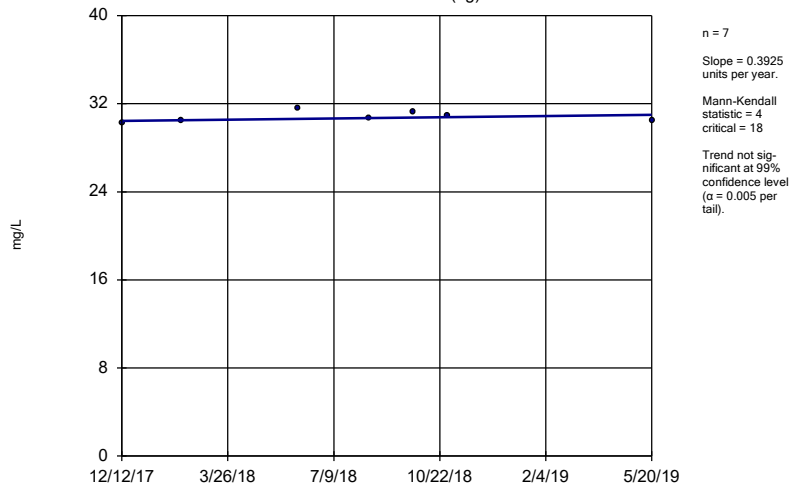
MW-1701S (bg)



Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

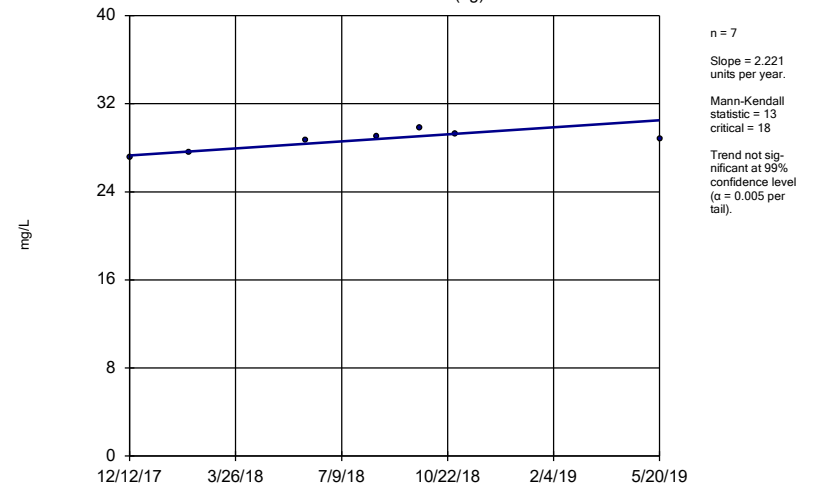
MW-1702D (bg)



Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

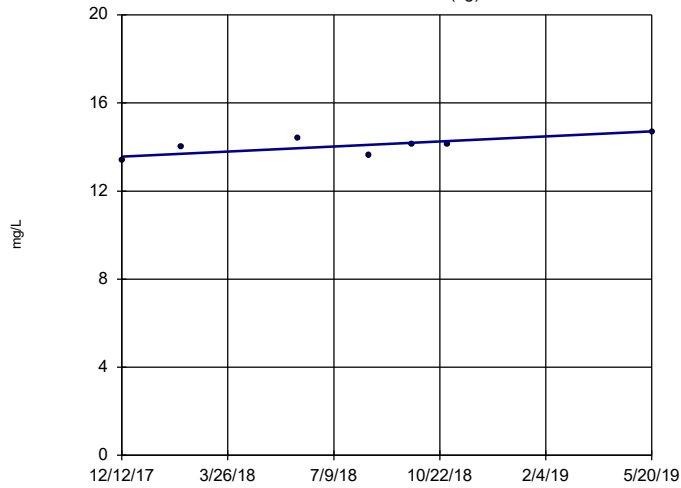
MW-1702I (bg)



Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702S (bg)

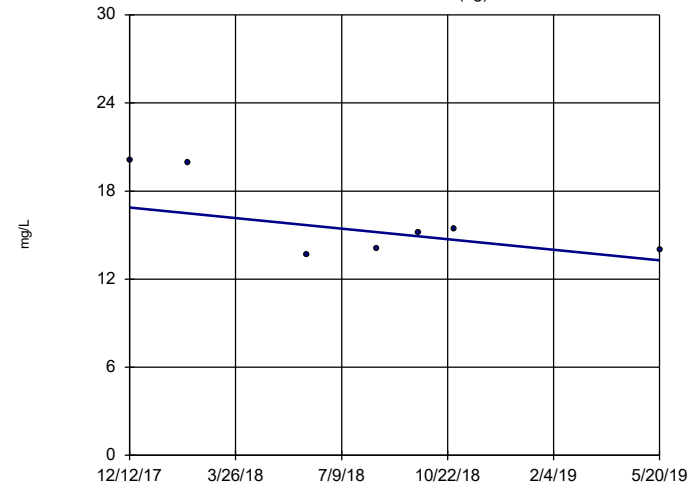


n = 7
 Slope = 0.7935 units per year.
 Mann-Kendall statistic = 12
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701D (bg)

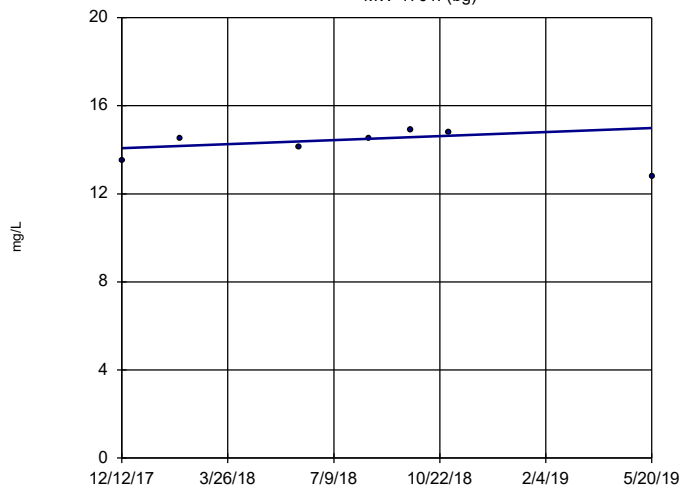


n = 7
 Slope = -2.517 units per year.
 Mann-Kendall statistic = -7
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701I (bg)

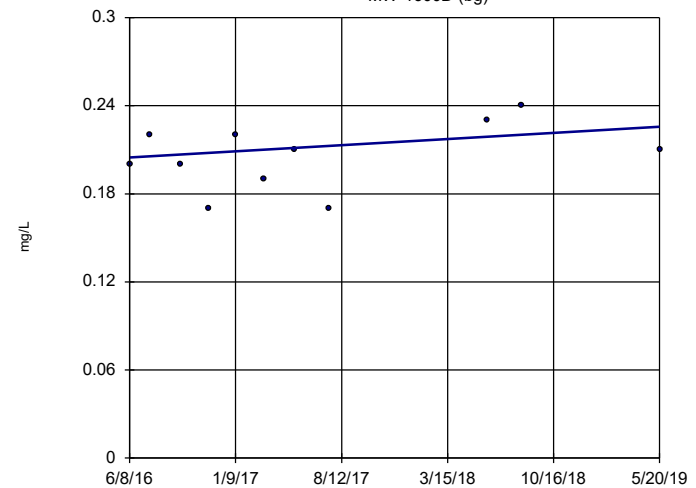


n = 7
 Slope = 0.6404 units per year.
 Mann-Kendall statistic = 4
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600D (bg)

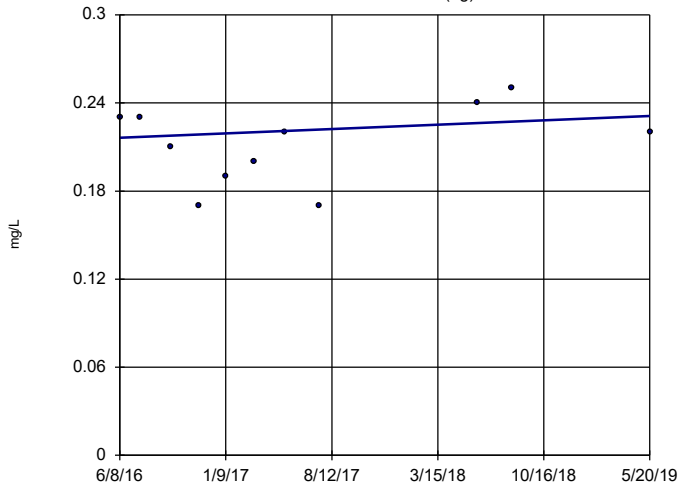


n = 11
 Slope = 0.007157 units per year.
 Mann-Kendall statistic = 11
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600I (bg)

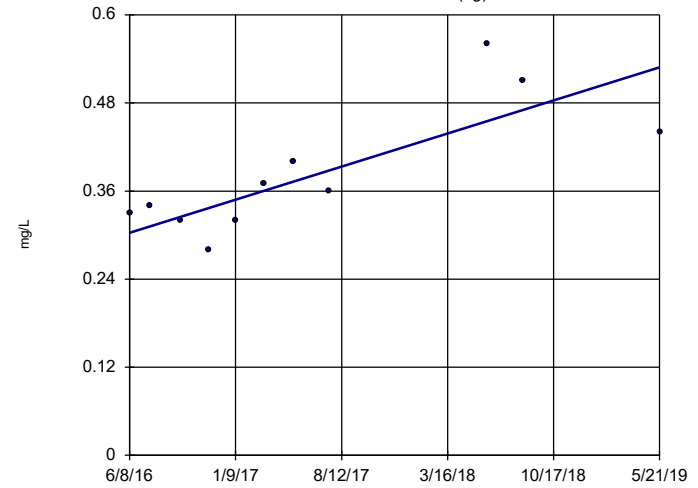


n = 11
Slope = 0.005028
units per year.
Mann-Kendall
statistic = 6
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600S (bg)

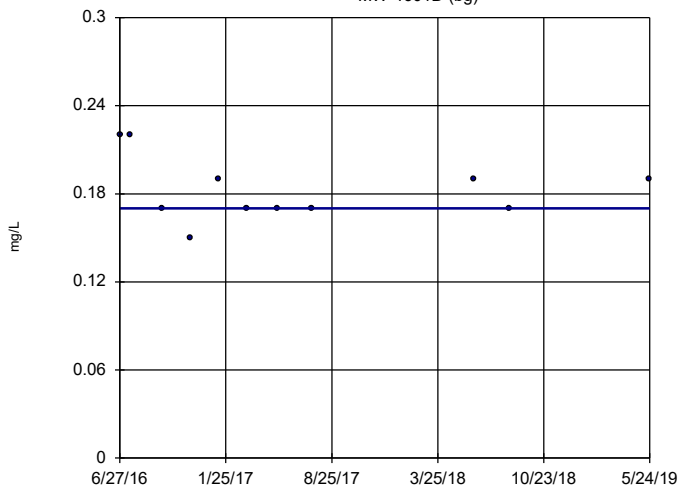


n = 11
Slope = 0.0765
units per year.
Mann-Kendall
statistic = 30
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601D (bg)

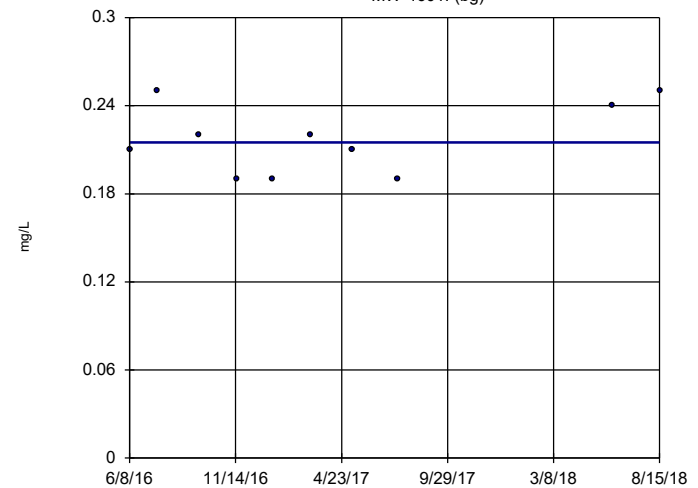


n = 11
Slope = 0
units per year.
Mann-Kendall
statistic = -7
critical = -34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601I (bg)

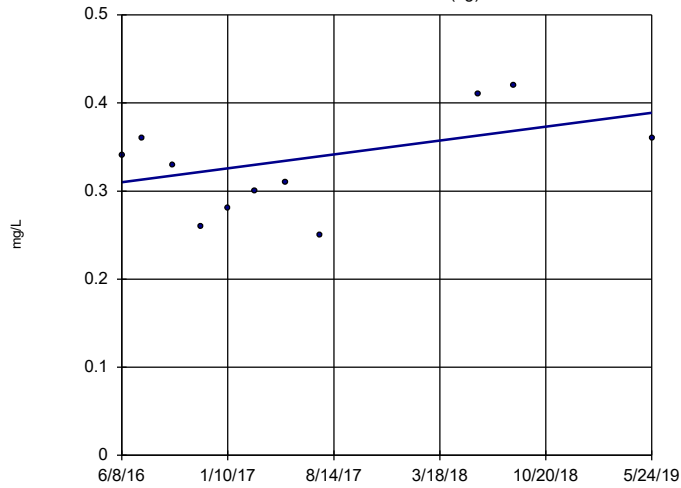


n = 10
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 30
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601S (bg)

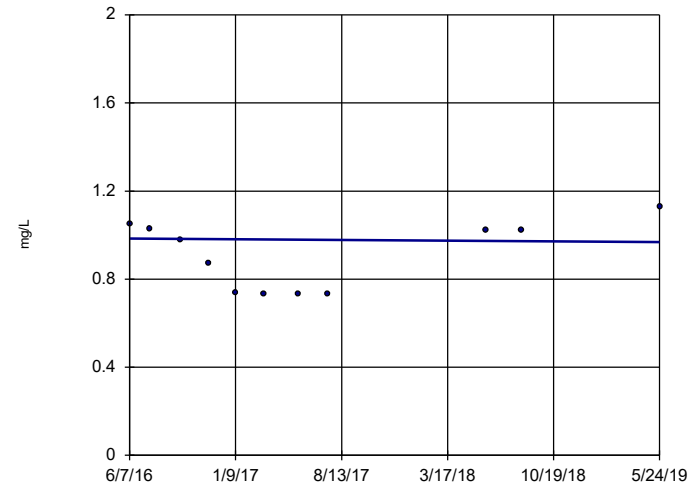


n = 11
 Slope = 0.0266 units per year.
 Mann-Kendall statistic = 8
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1002

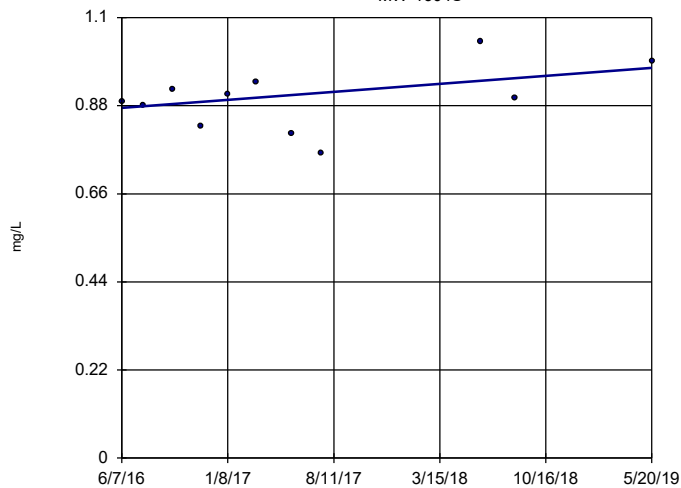


n = 11
 Slope = -0.005313 units per year.
 Mann-Kendall statistic = -7
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1604S

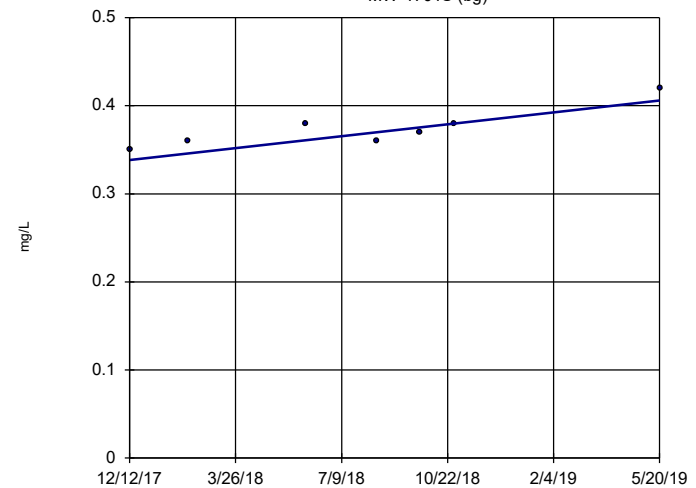


n = 11
 Slope = 0.0338 units per year.
 Mann-Kendall statistic = 9
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701S (bg)

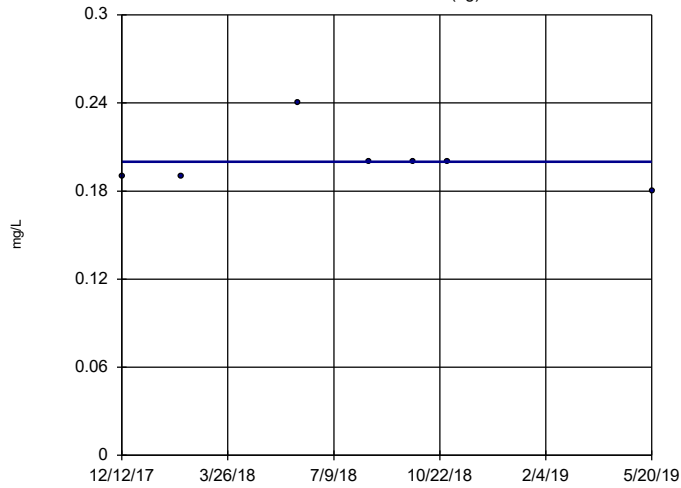


n = 7
 Slope = 0.047 units per year.
 Mann-Kendall statistic = 15
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702D (bg)

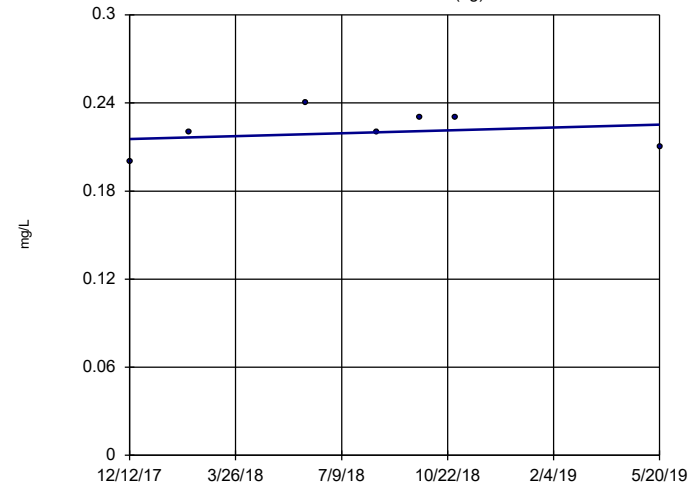


n = 7
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702I (bg)

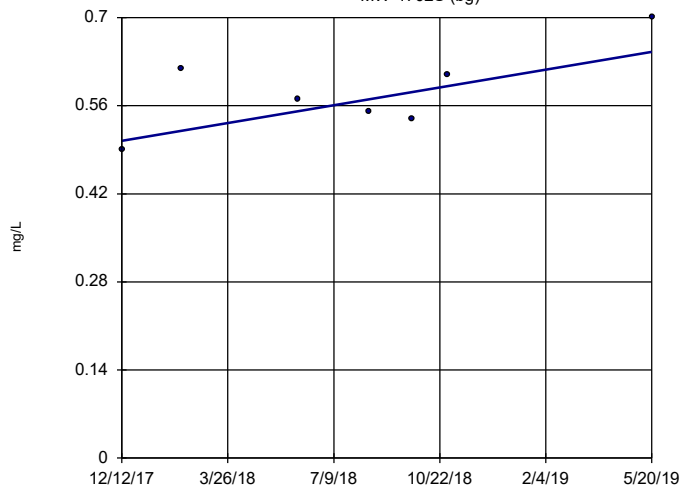


n = 7
 Slope = 0.006966
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702S (bg)

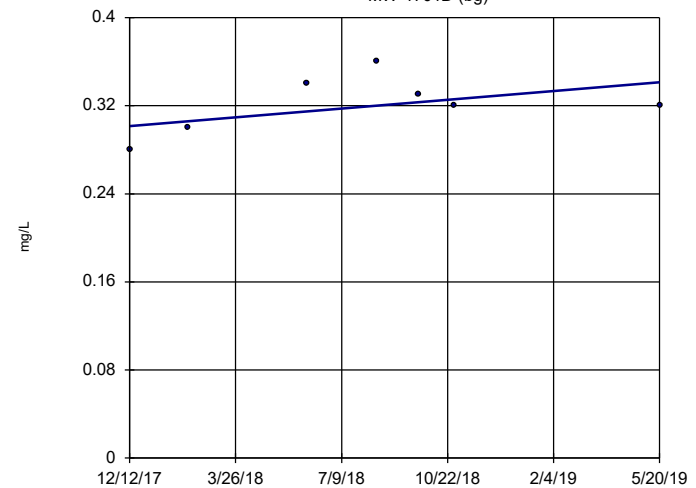


n = 7
 Slope = 0.09865
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701D (bg)

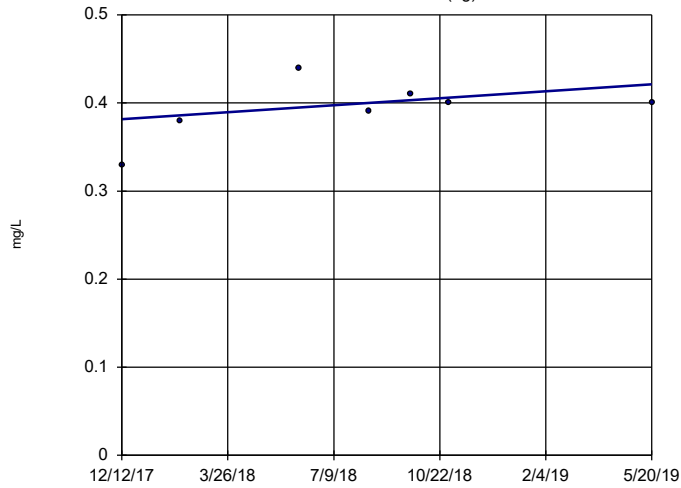


n = 7
 Slope = 0.02776
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-17011 (bg)

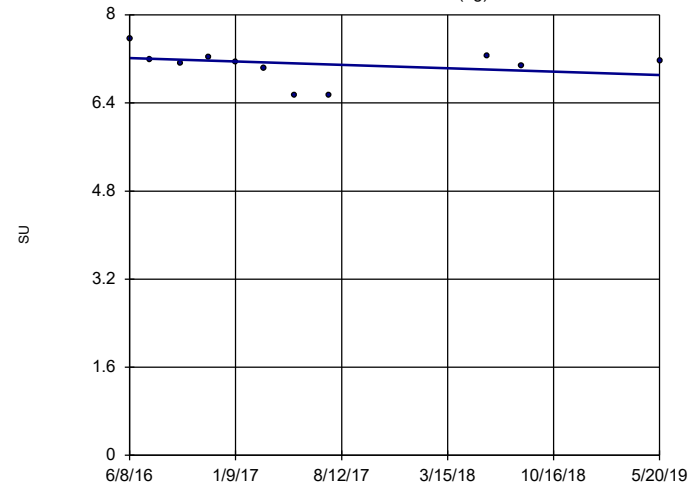


n = 7
 Slope = 0.02755 units per year.
 Mann-Kendall statistic = 8
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600D (bg)

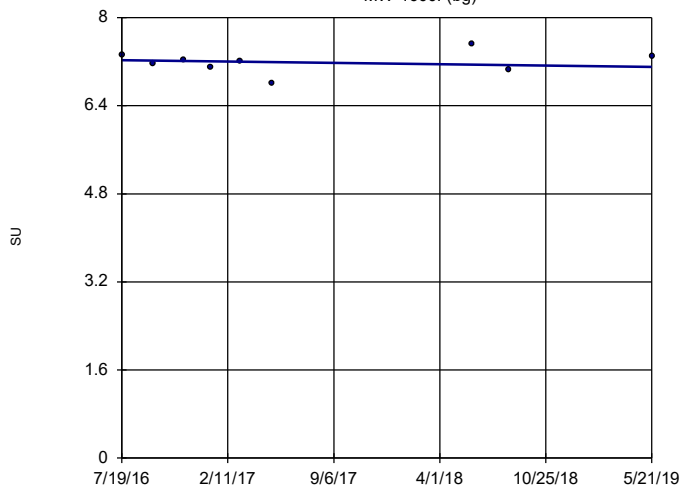


n = 11
 Slope = -0.1043 units per year.
 Mann-Kendall statistic = -16
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600I (bg)

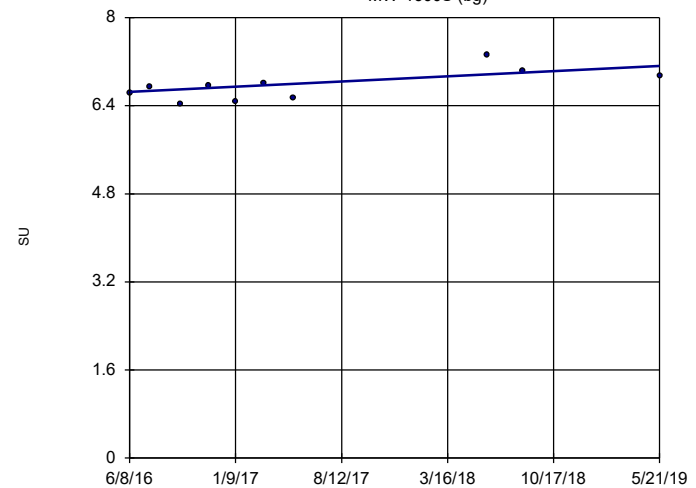


n = 9
 Slope = -0.04412 units per year.
 Mann-Kendall statistic = -4
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600S (bg)

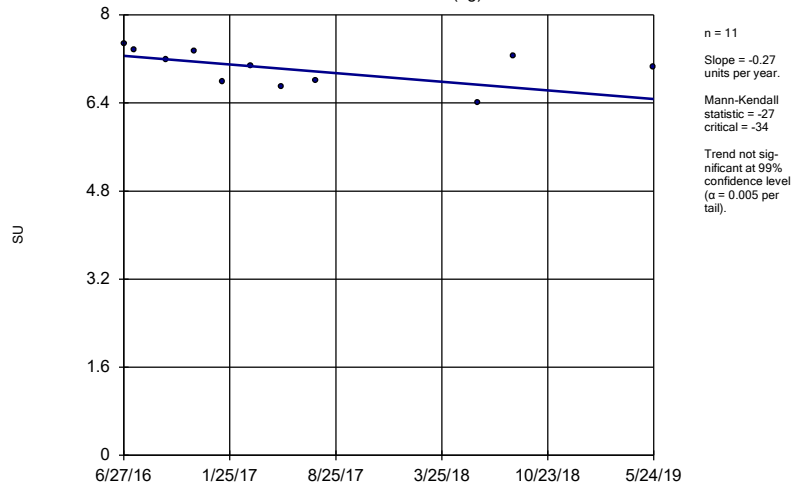


n = 10
 Slope = 0.1596 units per year.
 Mann-Kendall statistic = 21
 critical = 30
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

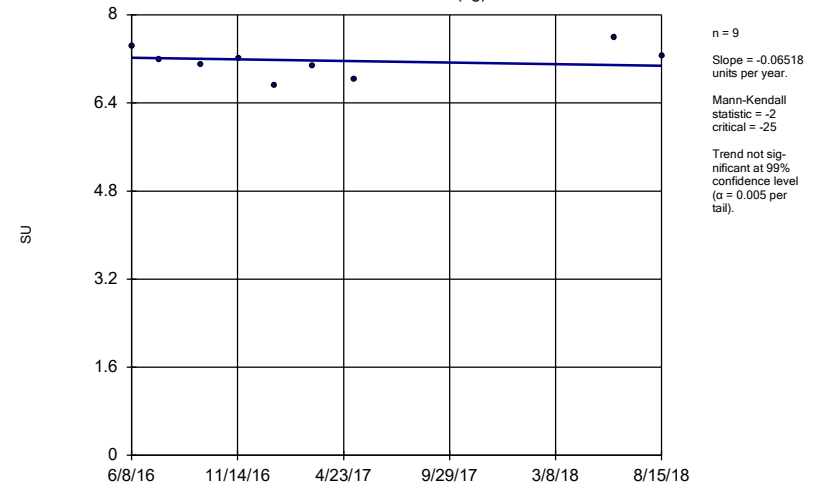
MW-1601D (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

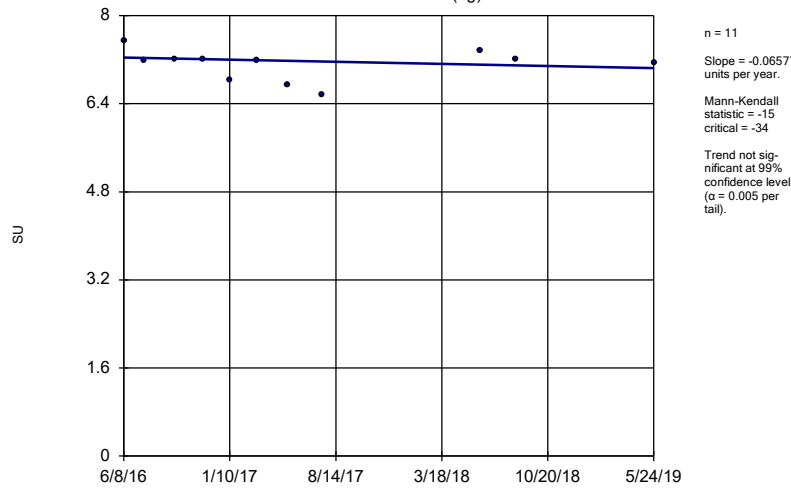
MW-1601I (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

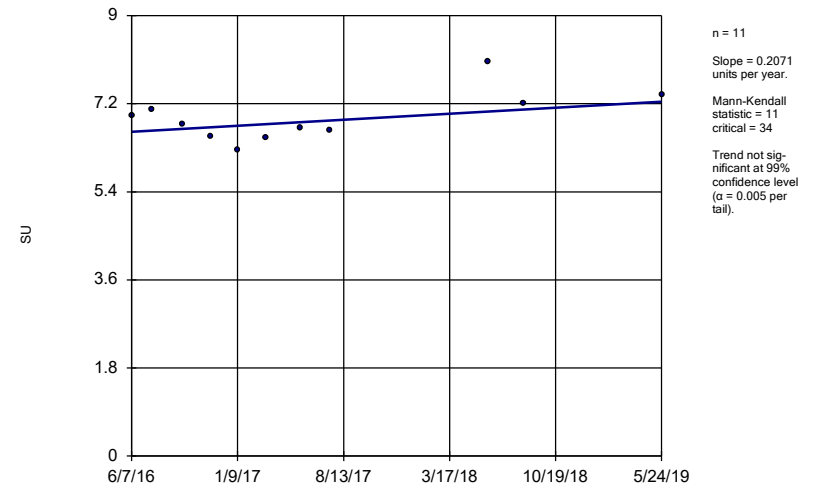
MW-1601S (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

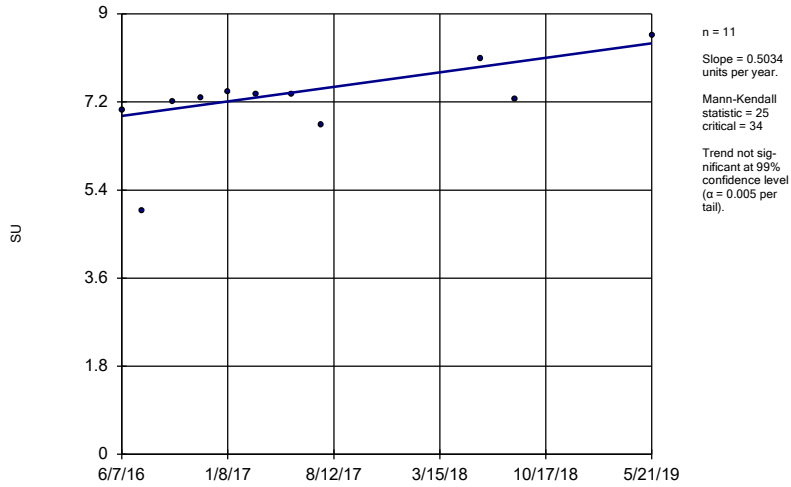
MW-1002



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1606I



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

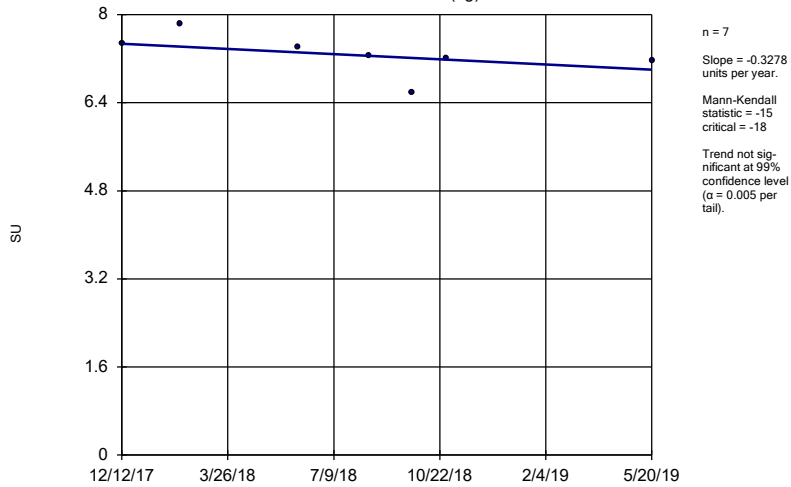
MW-1606S



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

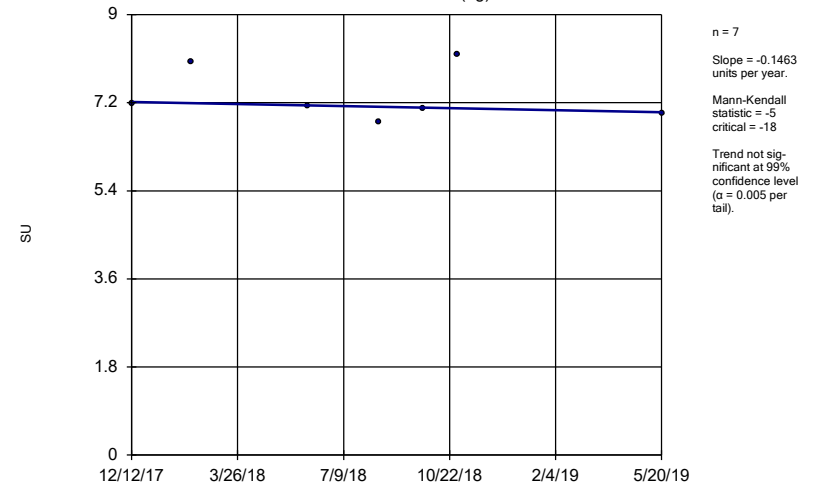
MW-1701S (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

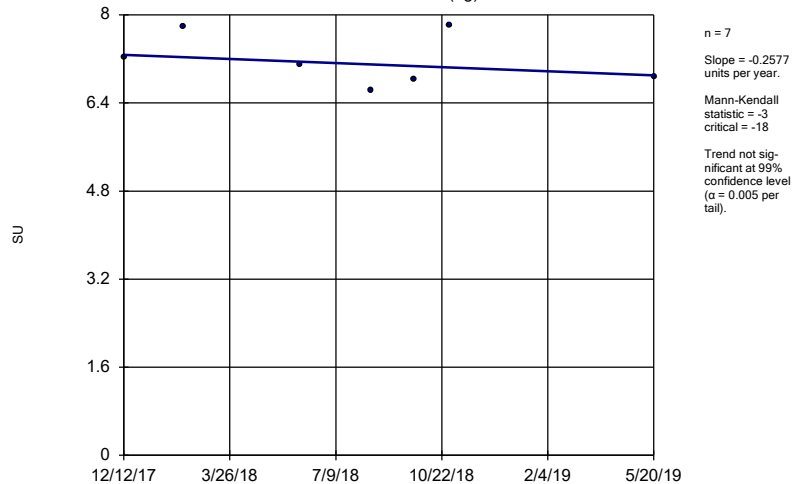
MW-1702D (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

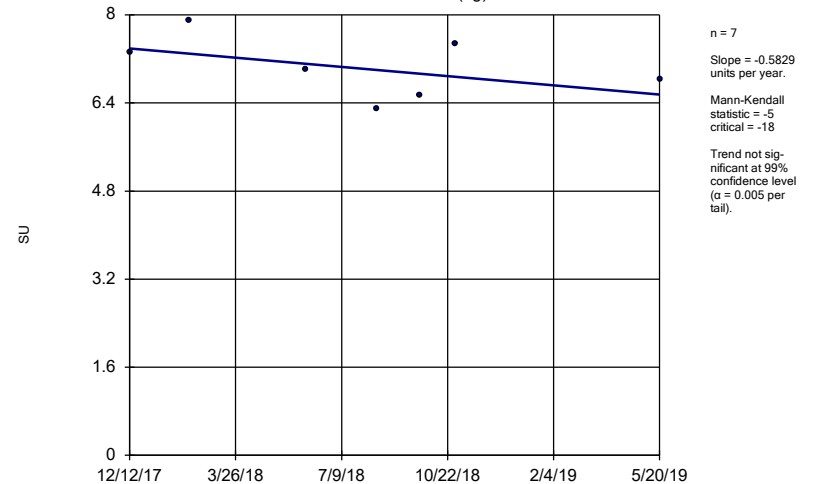
MW-1702I (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

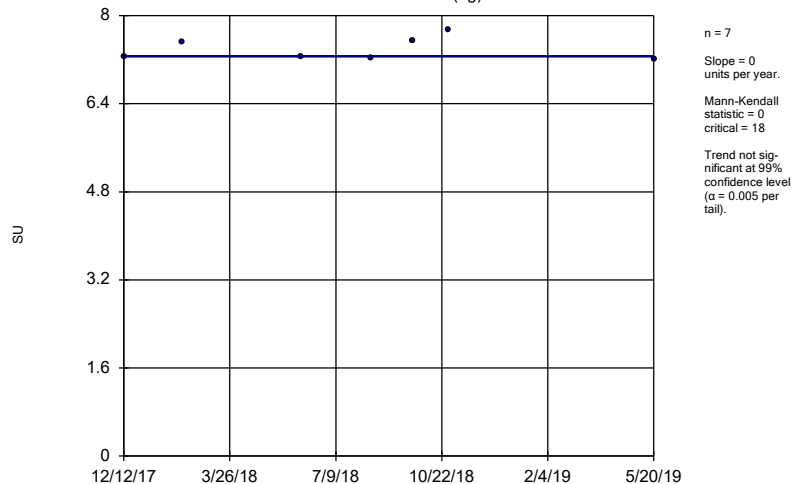
MW-1702S (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

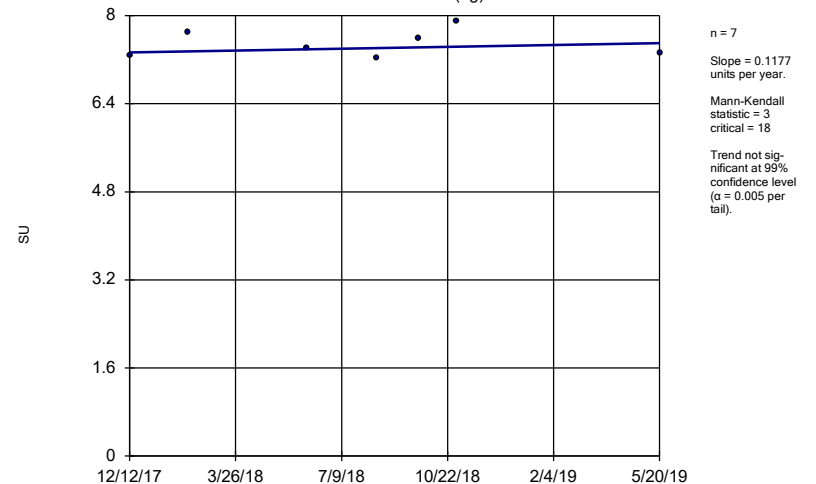
MW-1701D (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

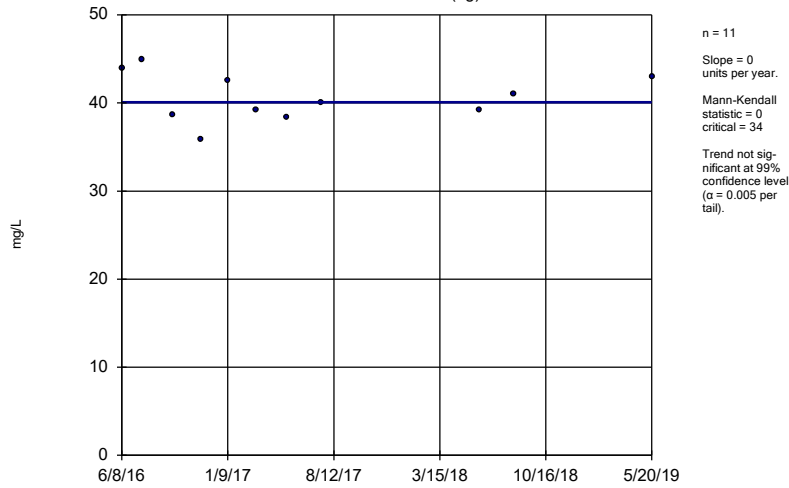
MW-1701I (bg)



Constituent: pH, field Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

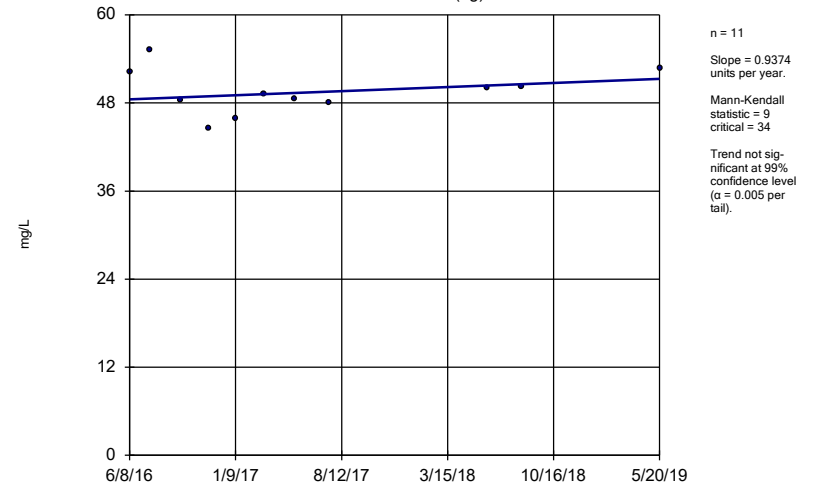
MW-1600D (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

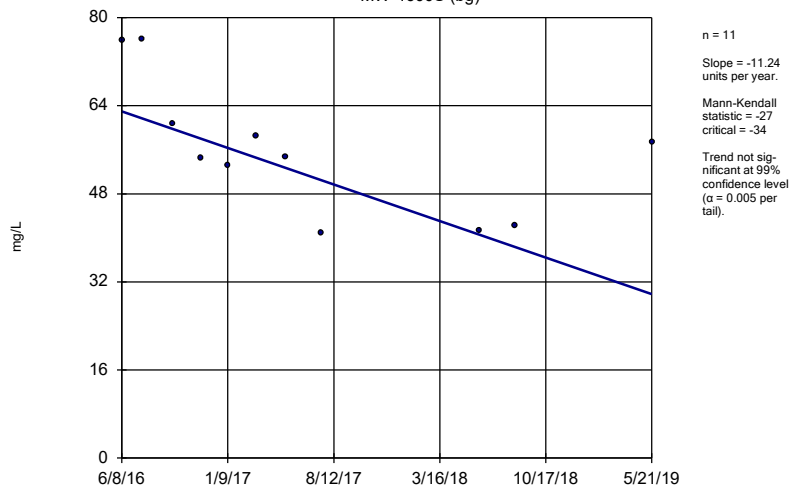
MW-1600I (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

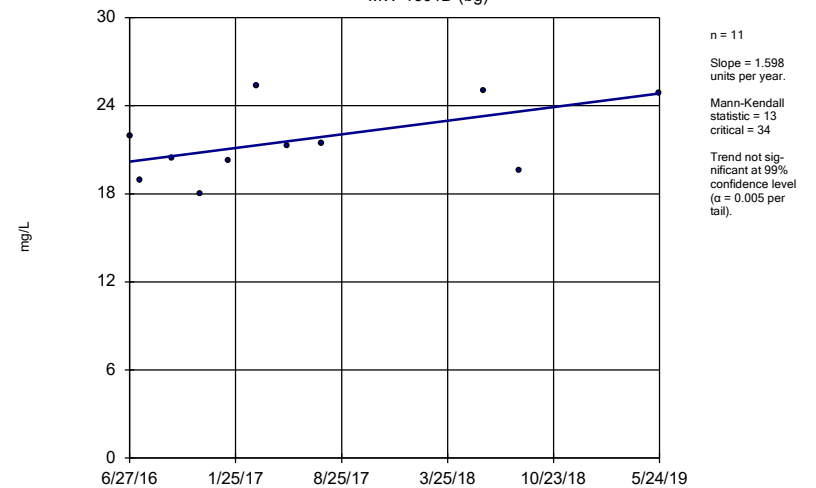
MW-1600S (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

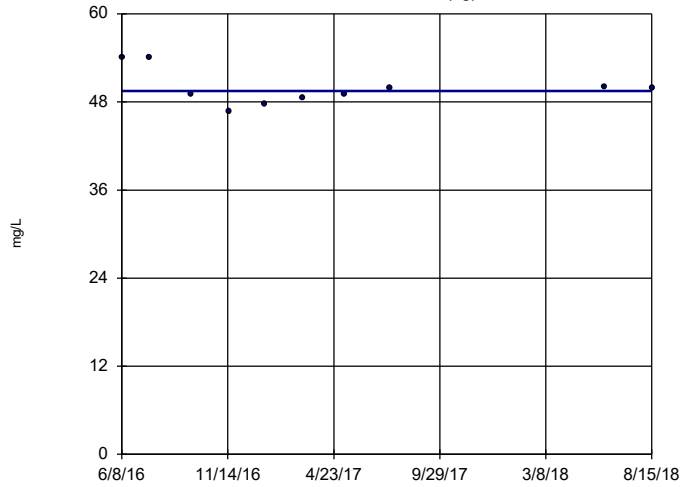
MW-1601D (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-16011 (bg)

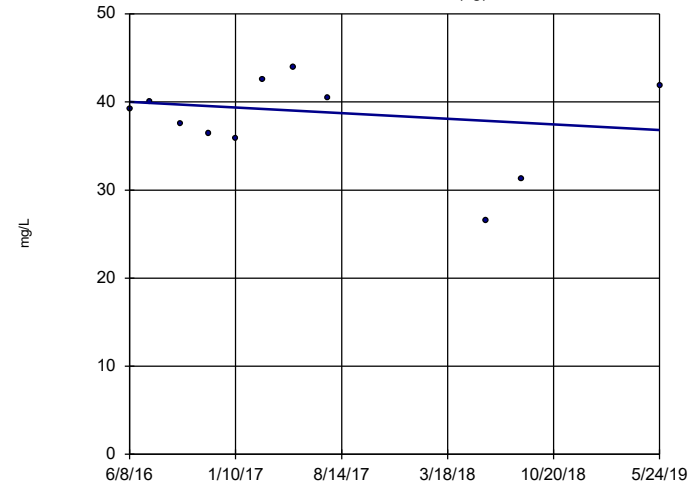


n = 10
Slope = 0
units per year.
Mann-Kendall
statistic = 2
critical = 30
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1601S (bg)

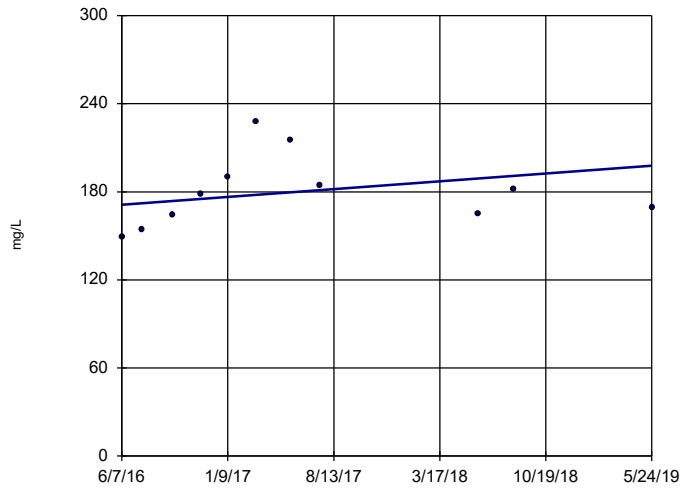


n = 11
Slope = -1.076
units per year.
Mann-Kendall
statistic = -3
critical = -34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1002

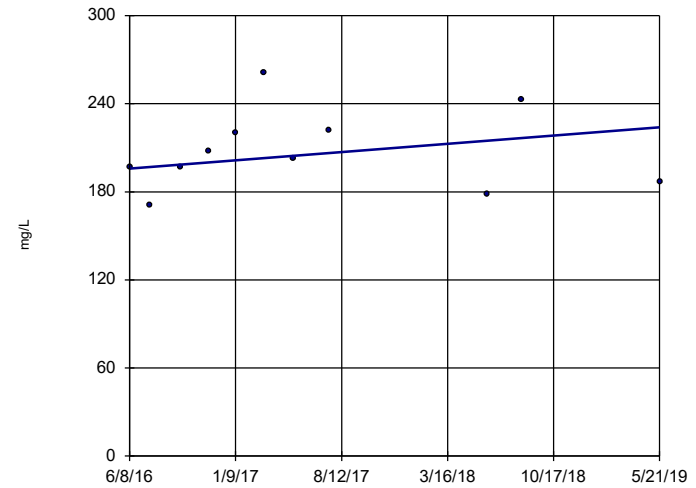


n = 11
Slope = 8.975
units per year.
Mann-Kendall
statistic = 17
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1603S

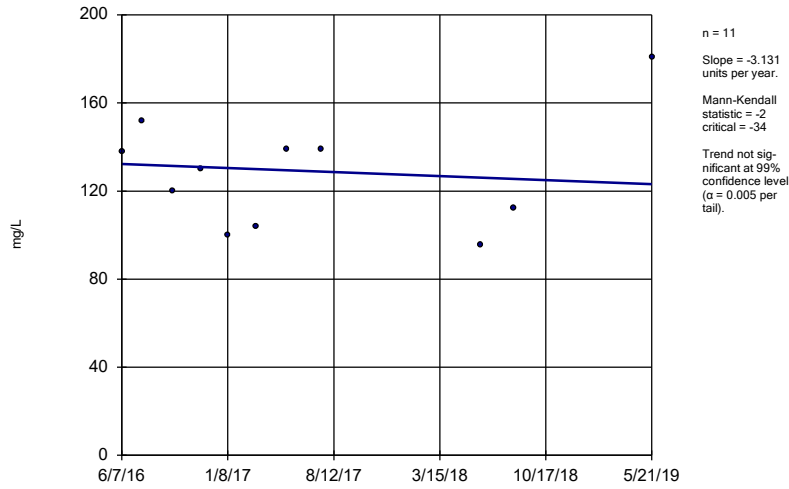


n = 11
Slope = 9.522
units per year.
Mann-Kendall
statistic = 12
critical = 34
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

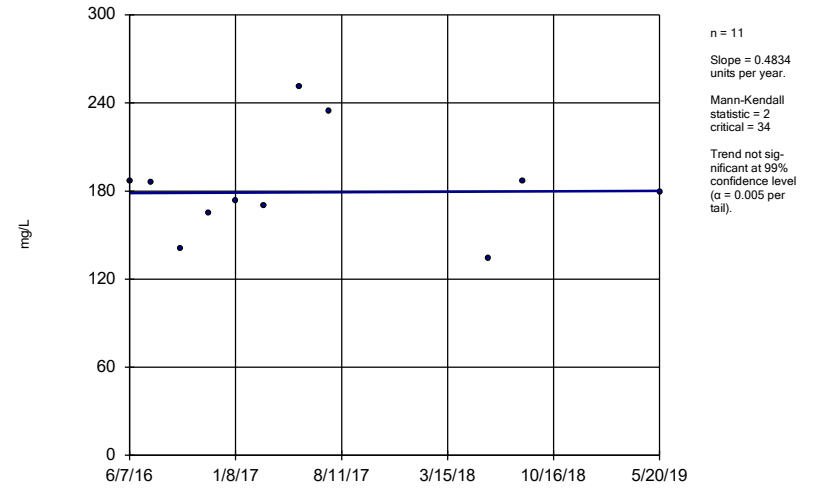
MW-1604I



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

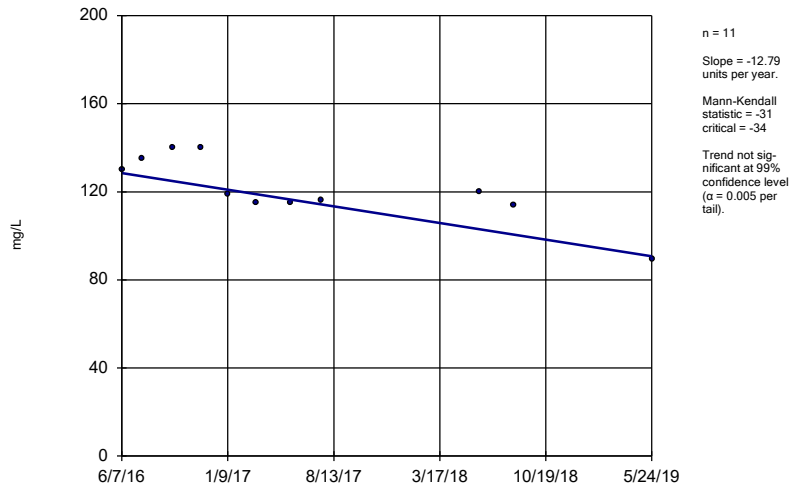
MW-1604S



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

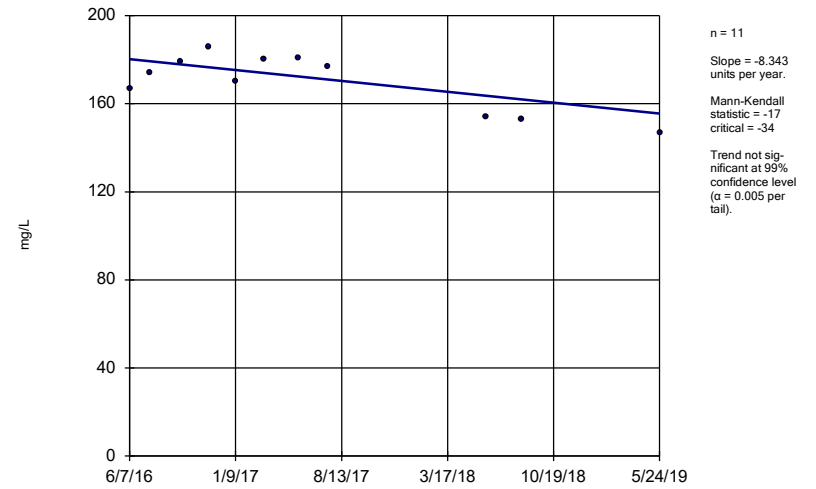
MW-1605I



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

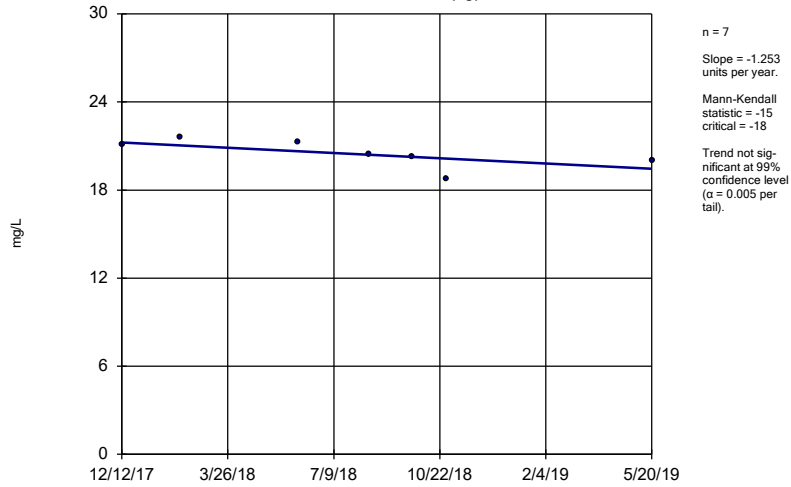
MW-1605S



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

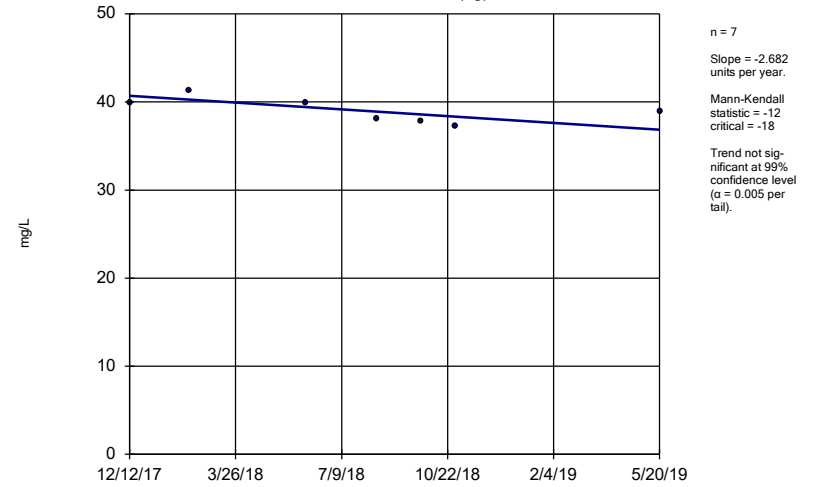
MW-1701S (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

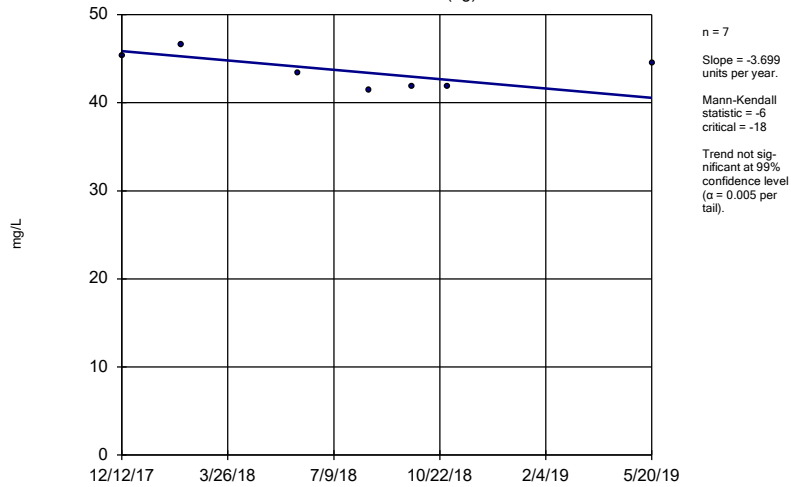
MW-1702D (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

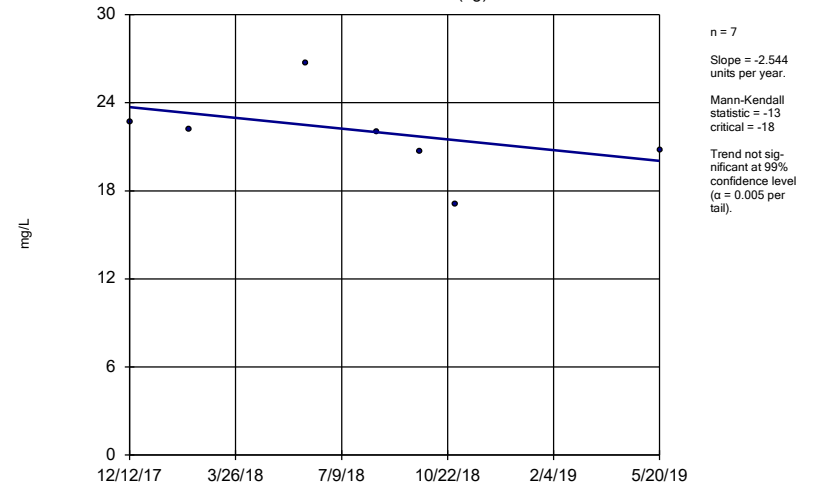
MW-1702I (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:06 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

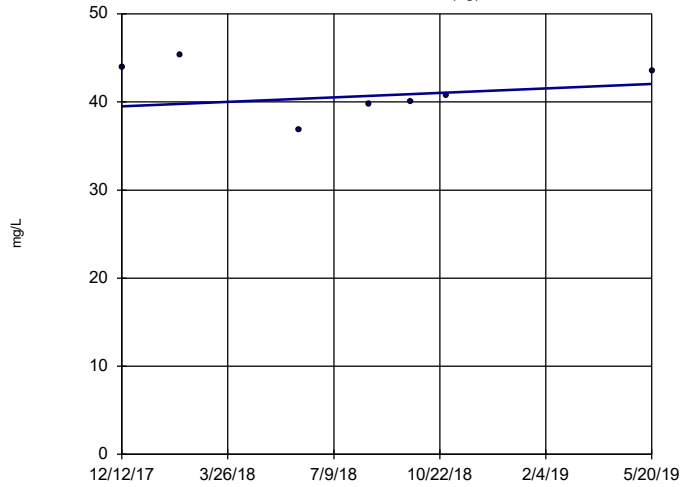
MW-1702S (bg)



Constituent: Sulfate, total Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701D (bg)

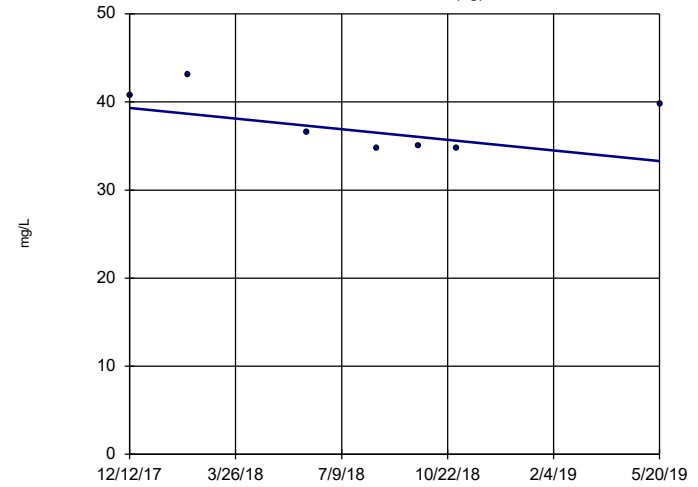


n = 7
 Slope = 1.78 units per year.
 Mann-Kendall statistic = 1
 critical = 18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701I (bg)

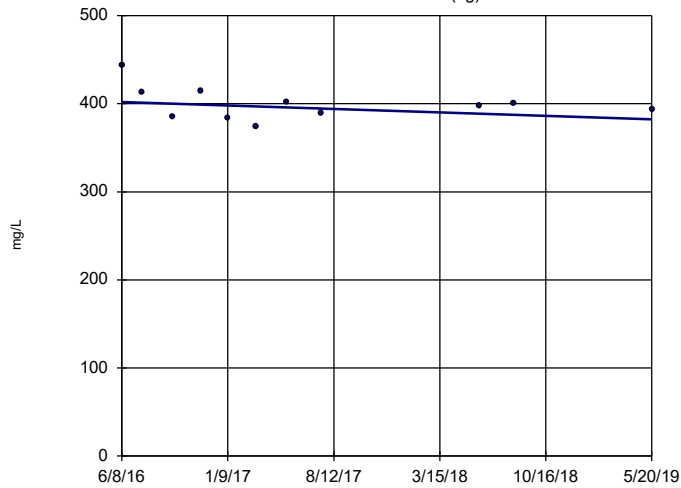


n = 7
 Slope = -4.193 units per year.
 Mann-Kendall statistic = -8
 critical = -18
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate, total Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600D (bg)

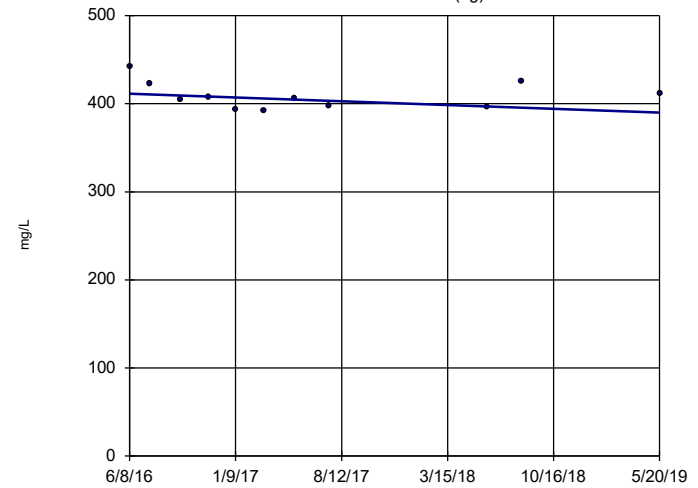


n = 11
 Slope = -6.7 units per year.
 Mann-Kendall statistic = -13
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600I (bg)

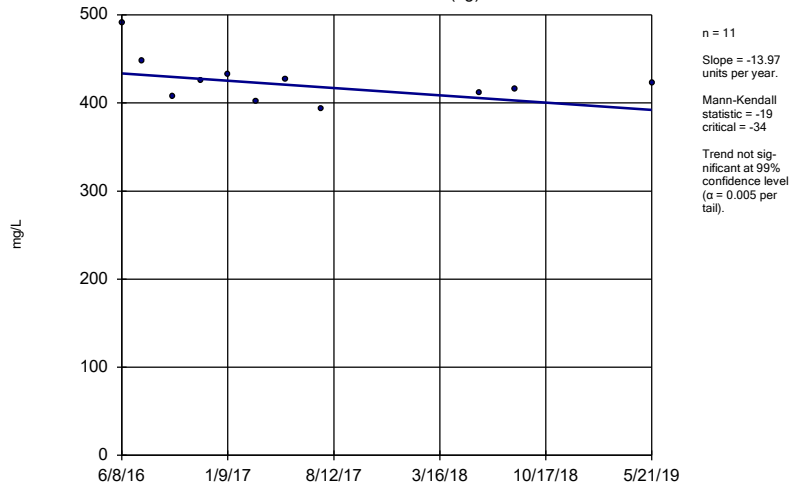


n = 11
 Slope = -7.276 units per year.
 Mann-Kendall statistic = -9
 critical = -34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

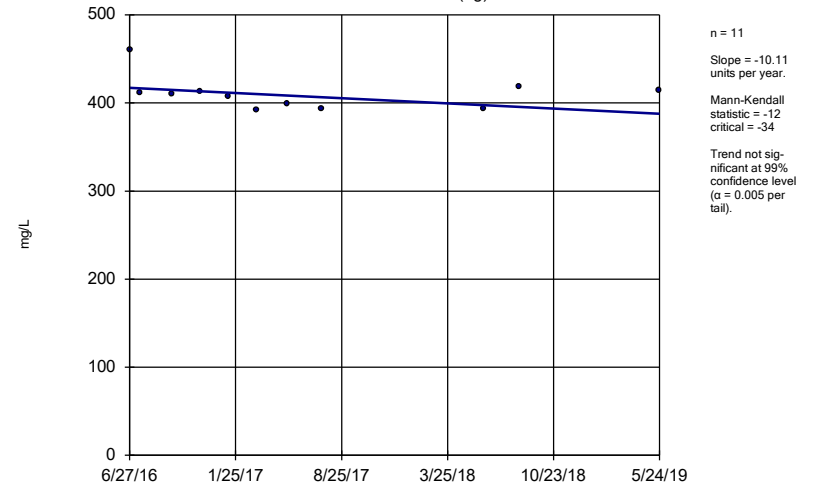
MW-1600S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

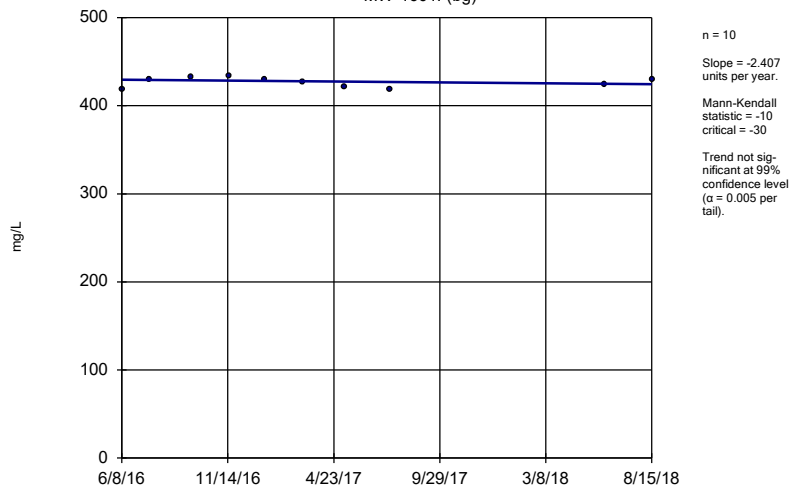
MW-1601D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

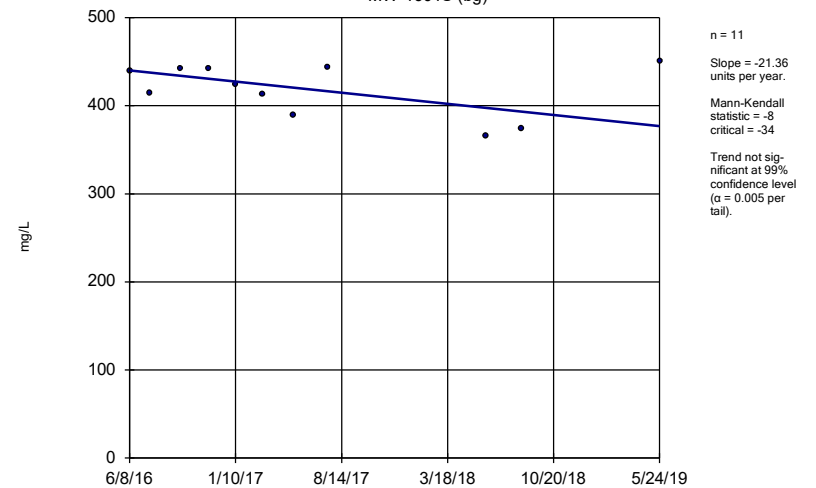
MW-1601I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

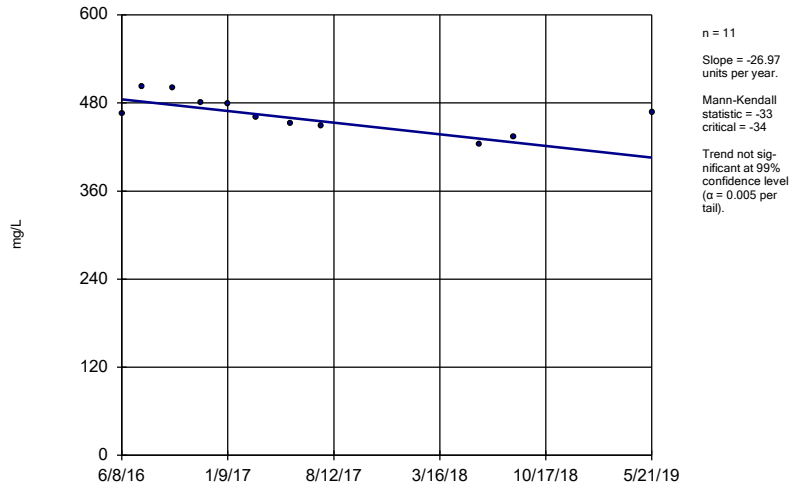
MW-1601S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

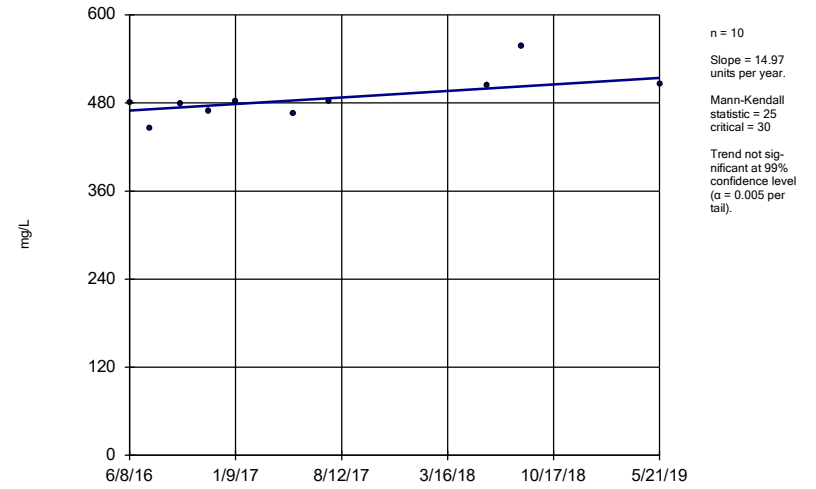
MW-1603I



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

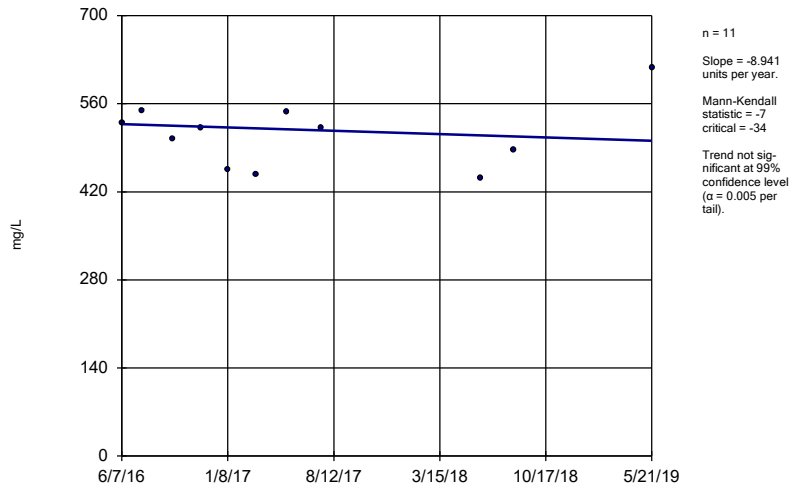
MW-1603S



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

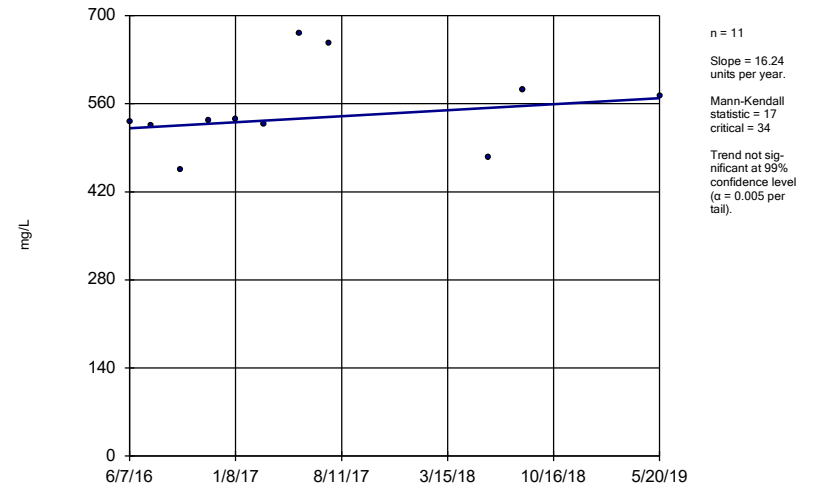
MW-1604I



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

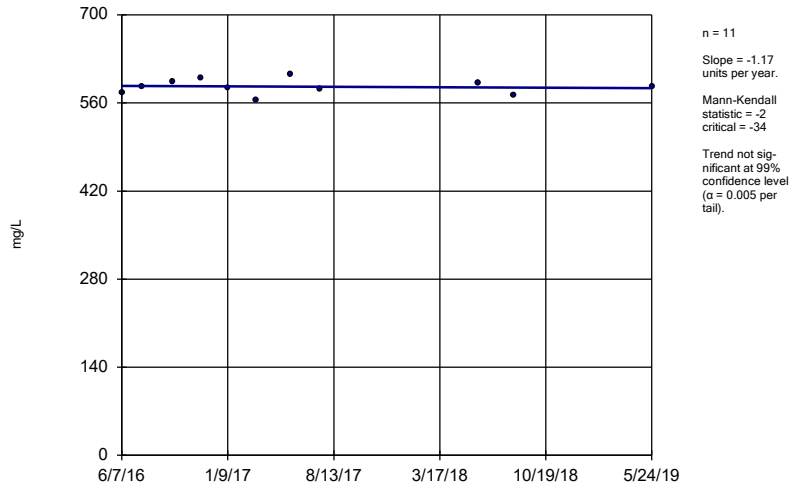
MW-1604S



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

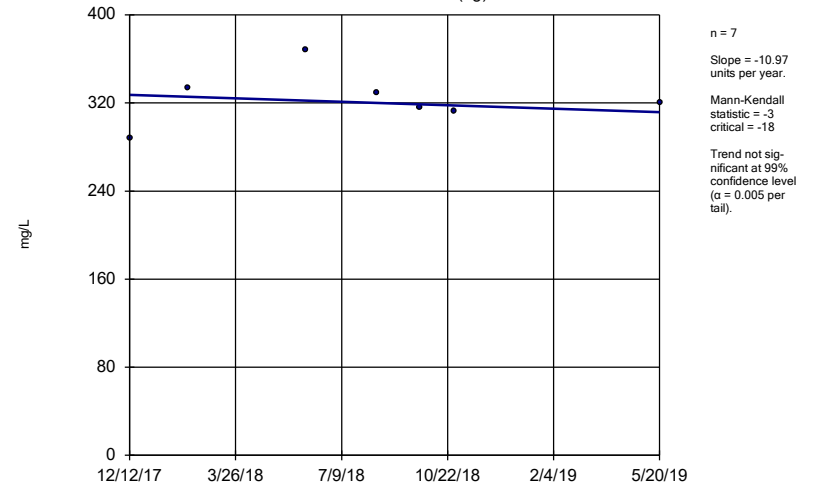
MW-1605S



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

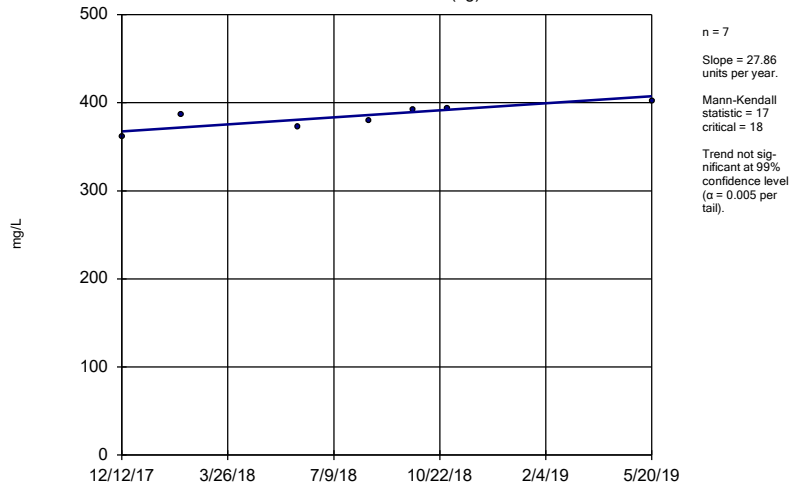
MW-1701S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

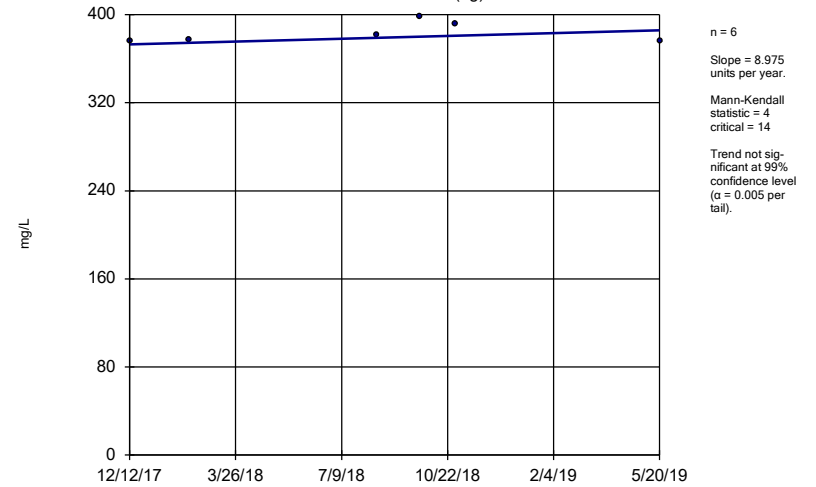
MW-1702D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

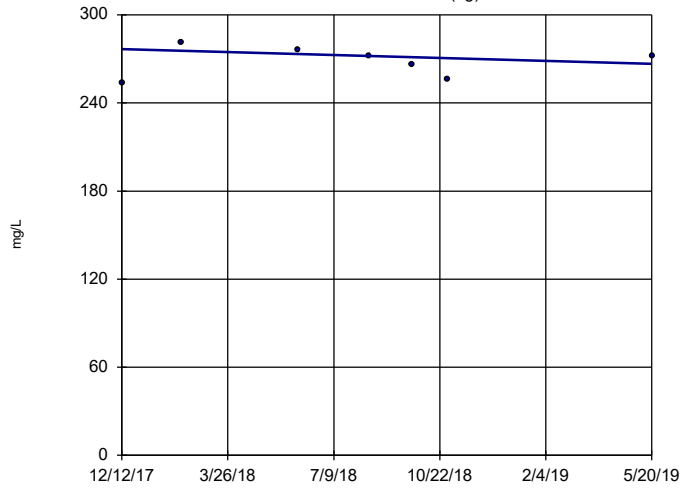
MW-1702I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1702S (bg)

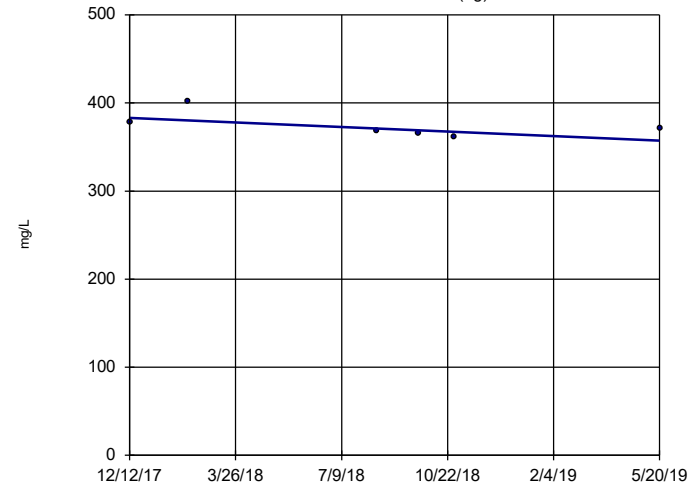


n = 7
 Slope = -7.065 units per year.
 Mann-Kendall statistic = -4
 critical = -18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701D (bg)

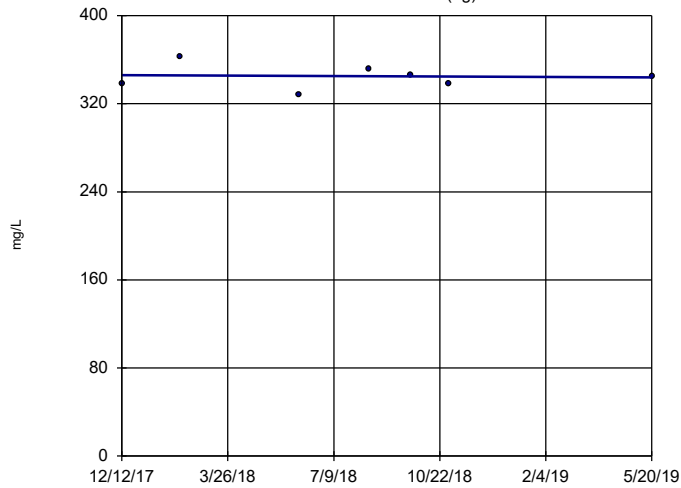


n = 6
 Slope = -18.19 units per year.
 Mann-Kendall statistic = -7
 critical = -14
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1701I (bg)



n = 7
 Slope = -1.534 units per year.
 Mann-Kendall statistic = -2
 critical = -18
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/8/2019 5:07 PM View: Trend Tests
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tolerance Limit Summary Table

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 1:03 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony, total (mg/L) | n/a | 0.00044 | 107 | n/a | n/a | 13.08 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Arsenic, total (mg/L) | n/a | 0.0495 | 110 | n/a | n/a | 0 | n/a | n/a | 0.003545 | NP Inter(normality) |
| Barium, total (mg/L) | n/a | 0.997 | 107 | n/a | n/a | 0 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Beryllium, total (mg/L) | n/a | 0.0001 | 107 | n/a | n/a | 66.36 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Cadmium, total (mg/L) | n/a | 0.00028 | 107 | n/a | n/a | 27.1 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Chromium, total (mg/L) | n/a | 0.001088 | 107 | -8.529 | 0.8908 | 0 | None | ln(x) | 0.05 | Inter |
| Cobalt, total (mg/L) | n/a | 0.00334 | 107 | n/a | n/a | 0 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 3.301 | 107 | 1.028 | 0.412 | 0 | None | sqrt(x) | 0.05 | Inter |
| Fluoride, total (mg/L) | n/a | 0.7 | 107 | n/a | n/a | 0 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Lead, total (mg/L) | n/a | 0.00154 | 107 | n/a | n/a | 2.804 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Lithium, total (mg/L) | n/a | 0.038 | 107 | n/a | n/a | 19.63 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Mercury, total (mg/L) | n/a | 0.000005 | 83 | n/a | n/a | 83.13 | n/a | n/a | 0.01416 | NP Inter(NDs) |
| Molybdenum, total (mg/L) | n/a | 0.004418 | 107 | 0.04251 | 0.01251 | 0 | None | sqrt(x) | 0.05 | Inter |
| Selenium, total (mg/L) | n/a | 0.0038 | 107 | n/a | n/a | 35.51 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Thallium, total (mg/L) | n/a | 0.0005 | 101 | n/a | n/a | 34.65 | n/a | n/a | 0.005625 | NP Inter(normality) |

Confidence Interval Summary Table - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | %NDs | Transform | Alpha | Method |
|-------------------------|----------|------------|-------------|------------|--------------|------|----|-------|-----------|-------|----------------|
| Antimony, total (mg/L) | MW-1002 | 0.00006 | 0.00004 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1602D | 0.00005 | 0.00001 | 0.006 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1602I | 0.00007607 | 0.00002144 | 0.006 | n/a | No | 11 | 0 | x^(1/3) | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1603D | 0.00004625 | 0.00001203 | 0.006 | n/a | No | 11 | 9.091 | sqrt(x) | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1603I | 0.00005 | 0.00003 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1603S | 0.00005492 | 0.00003781 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1604D | 0.00003685 | 0.00001313 | 0.006 | n/a | No | 11 | 9.091 | sqrt(x) | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1604I | 0.00006 | 0.00002 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1604S | 0.00007 | 0.00005 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1605D | 0.00005 | 0.00001 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1605I | 0.00004324 | 0.00002767 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1605S | 0.0001 | 0.00004 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1606D | 0.00007329 | 0.000009279 | 0.006 | n/a | No | 11 | 18.18 | No | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1606I | 0.00005 | 0.00002 | 0.006 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Antimony, total (mg/L) | MW-1606S | 0.00008 | 0.00004 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Arsenic, total (mg/L) | MW-1002 | 0.0003182 | 0.0002148 | 0.05 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1602D | 0.009226 | 0.007969 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1602I | 0.02907 | 0.01731 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1603D | 0.01217 | 0.0107 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1603I | 0.0129 | 0.01239 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1603S | 0.00036 | 0.00018 | 0.05 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Arsenic, total (mg/L) | MW-1604D | 0.01908 | 0.01594 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1604I | 0.02035 | 0.01885 | 0.05 | n/a | No | 10 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1604S | 0.00041 | 0.0002 | 0.05 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Arsenic, total (mg/L) | MW-1605D | 0.0193 | 0.0168 | 0.05 | n/a | No | 11 | 0 | x^2 | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1605I | 0.0253 | 0.0173 | 0.05 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Arsenic, total (mg/L) | MW-1605S | 0.0006 | 0.00036 | 0.05 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Arsenic, total (mg/L) | MW-1606D | 0.01576 | 0.01305 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1606I | 0.006753 | 0.003933 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1606S | 0.0003663 | 0.000201 | 0.05 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Barium, total (mg/L) | MW-1002 | 0.02627 | 0.01355 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1602D | 0.5093 | 0.4145 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1602I | 0.1345 | 0.1195 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1603D | 0.1164 | 0.1069 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1603I | 0.0879 | 0.08013 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1603S | 0.01808 | 0.01256 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1604D | 0.2545 | 0.2289 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1604I | 0.1333 | 0.1132 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1604S | 0.01987 | 0.01553 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1605D | 0.4653 | 0.4041 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1605I | 0.1689 | 0.1467 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1605S | 0.0109 | 0.00776 | 2 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Barium, total (mg/L) | MW-1606D | 0.418 | 0.3627 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1606I | 0.0745 | 0.0481 | 2 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Barium, total (mg/L) | MW-1606S | 0.01448 | 0.01005 | 2 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Beryllium, total (mg/L) | MW-1002 | 0.0001 | 0.000006 | 0.004 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1602D | 0.0001 | 0.000006 | 0.004 | n/a | No | 11 | 54.55 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1602I | 0.0001 | 0.000006 | 0.004 | n/a | No | 11 | 54.55 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1603D | 0.0001 | 0.00002 | 0.004 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1603I | 0.0001 | 0.00002 | 0.004 | n/a | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1603S | 0.0001 | 0.00001 | 0.004 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1604D | 0.0001 | 0.00002 | 0.004 | n/a | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1604I | 0.0001 | 0.00002 | 0.004 | n/a | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1604S | 0.0001 | 0.000007 | 0.004 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1605D | 0.0001 | 0.00002 | 0.004 | n/a | No | 11 | 81.82 | No | 0.006 | NP (NDs) |

Confidence Interval Summary Table - All Results (No Significant) Page 2

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | %NDs | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|--------------|------|----|-------|-----------|-------|----------------|
| Beryllium, total (mg/L) | MW-1605I | 0.0001 | 0.000004 | 0.004 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1605S | 0.0001 | 0.00002 | 0.004 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1606D | 0.0001 | 0.000006 | 0.004 | n/a | No | 11 | 54.55 | No | 0.006 | NP (normality) |
| Beryllium, total (mg/L) | MW-1606I | 0.0001 | 0.00002 | 0.004 | n/a | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1606S | 0.0001 | 0.000005 | 0.004 | n/a | No | 11 | 45.45 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1002 | 0.00007 | 0.00003 | 0.005 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1602D | 0.00005 | 0.00002 | 0.005 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1602I | 0.00005 | 0.000006 | 0.005 | n/a | No | 11 | 27.27 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1603D | 0.00005 | 0.000009 | 0.005 | n/a | No | 11 | 54.55 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1603I | 0.00005 | 0.000007 | 0.005 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1603S | 0.00003 | 0.00002 | 0.005 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1604D | 0.00005 | 0.000008 | 0.005 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1604I | 0.00005 | 0.000009 | 0.005 | n/a | No | 10 | 70 | No | 0.011 | NP (normality) |
| Cadmium, total (mg/L) | MW-1604S | 0.00003 | 0.00001 | 0.005 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1605D | 0.00005 | 0.00002 | 0.005 | n/a | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Cadmium, total (mg/L) | MW-1605I | 0.00005 | 0.000008 | 0.005 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1605S | 0.00004 | 0.00003 | 0.005 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1606D | 0.00005 | 0.00002 | 0.005 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1606I | 0.00005 | 0.000005 | 0.005 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Cadmium, total (mg/L) | MW-1606S | 0.00004236 | 0.00001764 | 0.005 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1002 | 0.0003302 | 0.00006919 | 0.1 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1602D | 0.0003617 | 0.0001621 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1602I | 0.0003589 | 0.0001321 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1603D | 0.000244 | 0.00009422 | 0.1 | n/a | No | 10 | 0 | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1603I | 0.0004897 | 0.00008994 | 0.1 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1603S | 0.0004163 | 0.0001064 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1604D | 0.0001945 | 0.00007314 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1604I | 0.000322 | 0.00007026 | 0.1 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1604S | 0.0004327 | 0.00009056 | 0.1 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1605D | 0.0002782 | 0.000116 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1605I | 0.0002919 | 0.00006915 | 0.1 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1605S | 0.0004596 | 0.00009993 | 0.1 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1606D | 0.0003471 | 0.00008179 | 0.1 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1606I | 0.0002646 | 0.0000738 | 0.1 | n/a | No | 11 | 9.091 | x^(1/3) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1606S | 0.0005712 | 0.0001235 | 0.1 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1002 | 0.0008177 | 0.0006218 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1602D | 0.0001912 | 0.00009884 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1602I | 0.001671 | 0.001367 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1603D | 0.001136 | 0.0004195 | 0.006 | n/a | No | 11 | 0 | x^(1/3) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1603I | 0.001373 | 0.001209 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1603S | 0.0006096 | 0.0002063 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1604D | 0.00009601 | 0.00005326 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1604I | 0.0009302 | 0.0007278 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1604S | 0.000548 | 0.000321 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Cobalt, total (mg/L) | MW-1605D | 0.0001974 | 0.00009093 | 0.006 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1605I | 0.001668 | 0.001385 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1605S | 0.000856 | 0.000307 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Cobalt, total (mg/L) | MW-1606D | 0.000178 | 0.00007 | 0.006 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Cobalt, total (mg/L) | MW-1606I | 0.001454 | 0.0007958 | 0.006 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1606S | 0.0003797 | 0.0000514 | 0.006 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1002 | 1.353 | 0.2606 | 5 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1602D | 2.161 | 0.7086 | 5 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1602I | 1.234 | 0.8102 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1603D | 1.35 | 0.674 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1603I | 1.958 | 0.8227 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |

Confidence Interval Summary Table - All Results (No Significant) Page 3

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | %NDs | Transform | Alpha | Method |
|-----------------------------------|----------|------------|------------|------------|--------------|------|----|-------|-----------|-------|------------------|
| Combined Radium 226 + 228 (pCi/L) | MW-1603S | 1.539 | 0.3557 | 5 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1604D | 1.198 | 0.4669 | 5 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1604I | 1.405 | 0.6796 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1604S | 1.093 | 0.377 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1605D | 1.624 | 0.8329 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1605I | 2.131 | 1.311 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1605S | 0.9138 | 0.2031 | 5 | n/a | No | 11 | 0 | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1606D | 1.609 | 0.5776 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1606I | 1.679 | 0.6058 | 5 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1606S | 1.368 | 0.3911 | 5 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1002 | 1.042 | 0.788 | 4 | n/a | No | 11 | 0 | x^2 | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1602D | 0.345 | 0.2986 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1602I | 0.3045 | 0.2628 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1603D | 0.3108 | 0.2656 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1603I | 0.4361 | 0.3821 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1603S | 0.5322 | 0.3514 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1604D | 0.2811 | 0.2407 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1604I | 0.3454 | 0.3 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1604S | 0.9633 | 0.8312 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1605D | 0.2291 | 0.1818 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1605I | 0.2193 | 0.157 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1605S | 0.5793 | 0.4807 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1606D | 0.2056 | 0.169 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1606I | 0.209 | 0.1764 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1606S | 0.4563 | 0.3728 | 4 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lead, total (mg/L) | MW-1002 | 0.00005474 | 0.00001718 | 0.015 | n/a | No | 11 | 9.091 | ln(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1602D | 0.00009997 | 0.00002205 | 0.015 | n/a | No | 11 | 9.091 | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1602I | 0.0002644 | 0.00005141 | 0.015 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lead, total (mg/L) | MW-1603D | 0.00007637 | 0.00001059 | 0.015 | n/a | No | 10 | 0 | x^(1/3) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1603I | 0.0001481 | 0.00001871 | 0.015 | n/a | No | 11 | 9.091 | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1603S | 0.0001537 | 0.00003026 | 0.015 | n/a | No | 11 | 9.091 | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1604D | 0.00005885 | 0.00001261 | 0.015 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lead, total (mg/L) | MW-1604I | 0.00004832 | 0.00001198 | 0.015 | n/a | No | 11 | 9.091 | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1604S | 0.0001598 | 0.00001906 | 0.015 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1605D | 0.000051 | 0.000009 | 0.015 | n/a | No | 11 | 18.18 | No | 0.006 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1605I | 0.0001348 | 0.00004141 | 0.015 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lead, total (mg/L) | MW-1605S | 0.000223 | 0.00002 | 0.015 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Lead, total (mg/L) | MW-1606D | 0.000141 | 0.00001 | 0.015 | n/a | No | 11 | 27.27 | No | 0.006 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1606I | 0.000071 | 0.000022 | 0.015 | n/a | No | 11 | 18.18 | No | 0.006 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1606S | 0.0003511 | 0.00001595 | 0.015 | n/a | No | 11 | 9.091 | x^(1/3) | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1002 | 0.02225 | 0.003231 | 0.04 | n/a | No | 11 | 18.18 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1602D | 0.01228 | 0.002444 | 0.04 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1602I | 0.01124 | 0.004037 | 0.04 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1603D | 0.01099 | 0.005373 | 0.04 | n/a | No | 11 | 9.091 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1603I | 0.02296 | 0.005964 | 0.04 | n/a | No | 11 | 18.18 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1603S | 0.02206 | 0.002892 | 0.04 | n/a | No | 11 | 18.18 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1604D | 0.02684 | 0.00138 | 0.04 | n/a | No | 11 | 27.27 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1604I | 0.01217 | 0.005651 | 0.04 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1604S | 0.01516 | 0.009384 | 0.04 | n/a | No | 11 | 9.091 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1605D | 0.007618 | 0.003603 | 0.04 | n/a | No | 11 | 9.091 | ln(x) | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1605I | 0.01152 | 0.005022 | 0.04 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1605S | 0.01858 | 0.01251 | 0.04 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1606D | 0.015 | 0.002 | 0.04 | n/a | No | 11 | 18.18 | No | 0.006 | NP (Cohens/xfrm) |
| Lithium, total (mg/L) | MW-1606I | 0.01089 | 0.005473 | 0.04 | n/a | No | 11 | 9.091 | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1606S | 0.01415 | 0.00931 | 0.04 | n/a | No | 11 | 9.091 | No | 0.01 | Param. |

Confidence Interval Summary Table - All Results (No Significant) Page 4

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | %NDs | Transform | Alpha | Method |
|--------------------------|----------|------------|------------|------------|--------------|------|----|-------|-----------|-------|------------------|
| Mercury, total (mg/L) | MW-1002 | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1602D | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1602I | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1603D | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1603I | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1603S | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1604D | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 80 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1604I | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1604S | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1605D | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1605I | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1605S | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1606D | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1606I | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Mercury, total (mg/L) | MW-1606S | 0.000005 | 0.000005 | 0.002 | n/a | No | 10 | 90 | No | 0.011 | NP (NDs) |
| Molybdenum, total (mg/L) | MW-1002 | 0.005438 | 0.002343 | 0.1 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1602D | 0.004043 | 0.003286 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1602I | 0.002446 | 0.002065 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1603D | 0.006024 | 0.004432 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1603I | 0.009483 | 0.007699 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1603S | 0.001404 | 0.0002648 | 0.1 | n/a | No | 11 | 9.091 | sqrt(x) | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1604D | 0.003403 | 0.00264 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1604I | 0.002935 | 0.002548 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1604S | 0.002575 | 0.002155 | 0.1 | n/a | No | 10 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1605D | 0.00319 | 0.00197 | 0.1 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Molybdenum, total (mg/L) | MW-1605I | 0.001346 | 0.001089 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1605S | 0.002159 | 0.001591 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1606D | 0.00246 | 0.00177 | 0.1 | n/a | No | 11 | 0 | No | 0.006 | NP (normality) |
| Molybdenum, total (mg/L) | MW-1606I | 0.001778 | 0.00112 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1606S | 0.001581 | 0.000983 | 0.1 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1002 | 0.00009466 | 0.00006352 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1602D | 0.0002 | 0.00003 | 0.05 | n/a | No | 11 | 36.36 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1602I | 0.0002 | 0.00004 | 0.05 | n/a | No | 11 | 36.36 | No | 0.006 | NP (Cohens/xfrm) |
| Selenium, total (mg/L) | MW-1603D | 0.0002289 | 0.00009296 | 0.05 | n/a | No | 11 | 54.55 | No | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1603I | 0.0002 | 0.00005 | 0.05 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1603S | 0.0002414 | 0.00005584 | 0.05 | n/a | No | 11 | 9.091 | ln(x) | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1604D | 0.0002 | 0.00004 | 0.05 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1604I | 0.0002 | 0.00003 | 0.05 | n/a | No | 11 | 45.45 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1604S | 0.0001208 | 0.00004676 | 0.05 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1605D | 0.0002 | 0.00003 | 0.05 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1605I | 0.0002 | 0.00004 | 0.05 | n/a | No | 11 | 45.45 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1605S | 0.001788 | 0.00054 | 0.05 | n/a | No | 11 | 0 | ln(x) | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1606D | 0.0002 | 0.00005 | 0.05 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1606I | 0.0002 | 0.00005 | 0.05 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |
| Selenium, total (mg/L) | MW-1606S | 0.004999 | 0.002837 | 0.05 | n/a | No | 11 | 0 | No | 0.01 | Param. |
| Thallium, total (mg/L) | MW-1002 | 0.00005 | 0.00002 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1602D | 0.0005 | 0.00002 | 0.002 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1602I | 0.0005 | 0.00001 | 0.002 | n/a | No | 11 | 18.18 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1603D | 0.0005 | 0.00002 | 0.002 | n/a | No | 11 | 45.45 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1603I | 0.00005 | 0.00003 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1603S | 0.000091 | 0.00002 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1604D | 0.0005 | 0.00002 | 0.002 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1604I | 0.000078 | 0.00001 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1604S | 0.000096 | 0.00002 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1605D | 0.0005 | 0.00003 | 0.002 | n/a | No | 11 | 72.73 | No | 0.006 | NP (normality) |

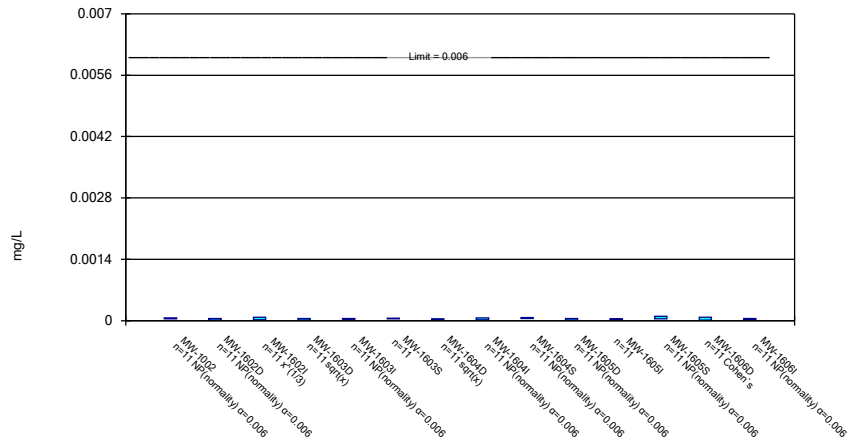
Confidence Interval Summary Table - All Results (No Significant) ^{Page 5}

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 8/8/2019, 5:04 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Lower Compl. | Sig. | N | %NDs | Transform | Alpha | Method |
|------------------------|----------|------------|------------|------------|--------------|------|----|-------|-----------|-------|----------------|
| Thallium, total (mg/L) | MW-1605I | 0.000183 | 0.00002 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1605S | 0.00006 | 0.00002 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1606D | 0.0005 | 0.00003 | 0.002 | n/a | No | 11 | 63.64 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1606I | 0.000083 | 0.00003 | 0.002 | n/a | No | 11 | 9.091 | No | 0.006 | NP (normality) |
| Thallium, total (mg/L) | MW-1606S | 0.0005 | 0.00001 | 0.002 | n/a | No | 11 | 18.18 | No | 0.006 | NP (normality) |

Parametric and Non-Parametric (NP) Confidence Interval

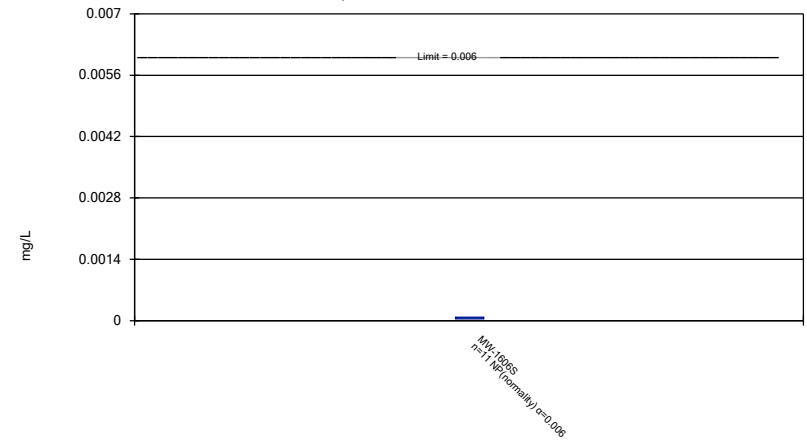
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

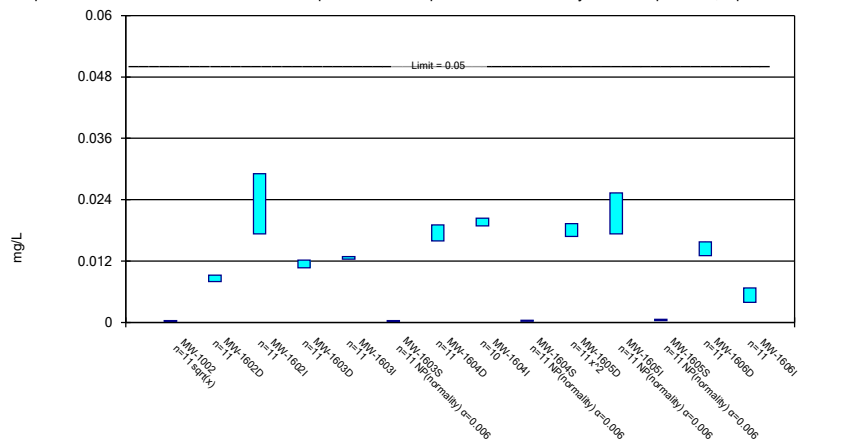
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Constituent: Antimony, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

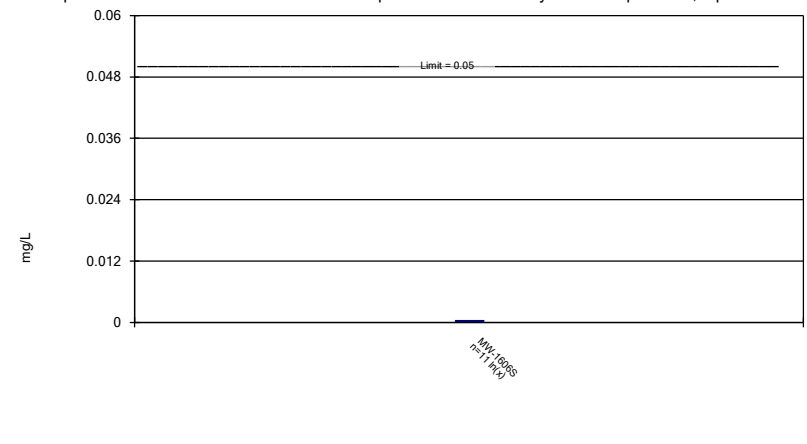
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Constituent: Arsenic, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

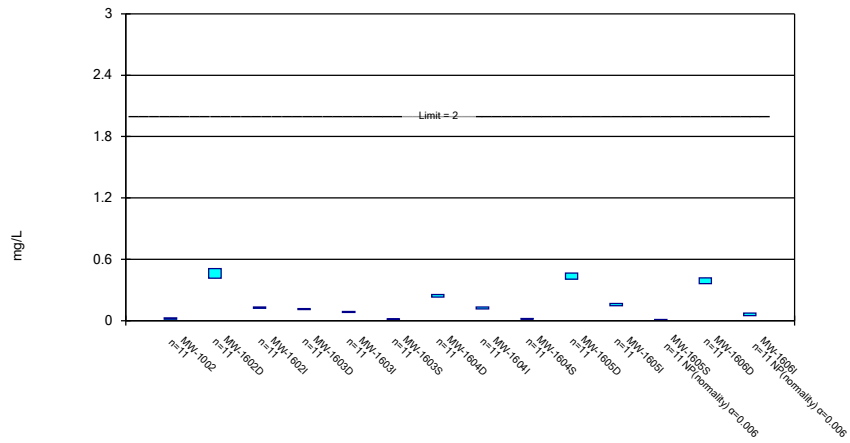
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Constituent: Arsenic, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

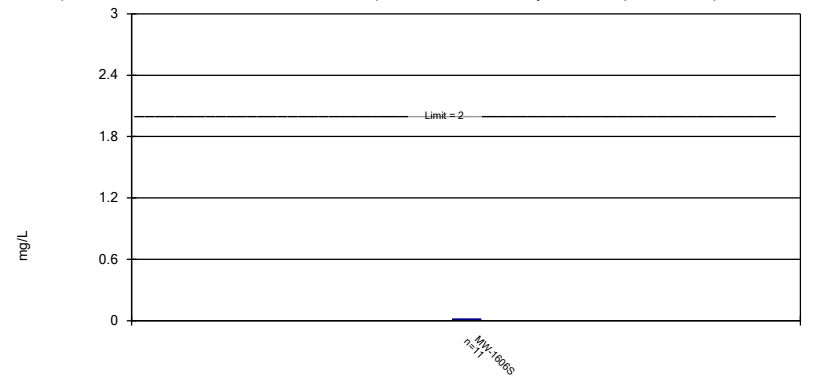
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Constituent: Barium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

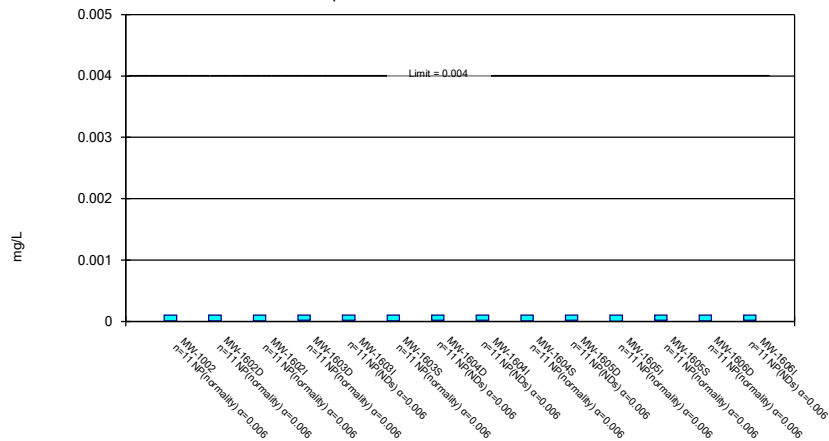
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Constituent: Barium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

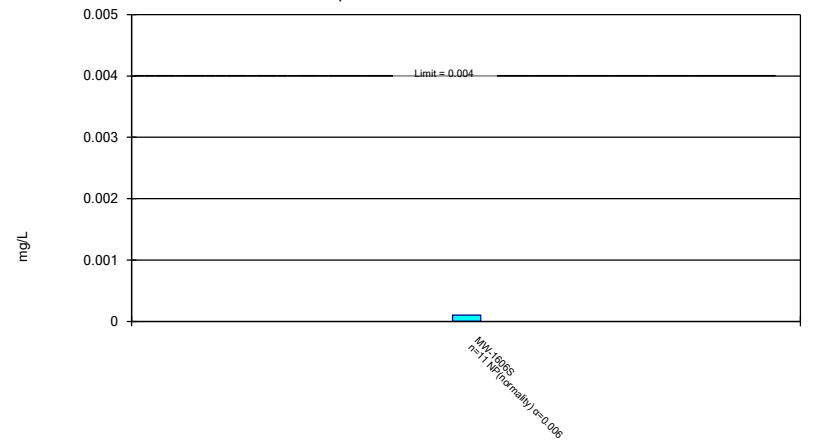
Compliance Limit is not exceeded.



Constituent: Beryllium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

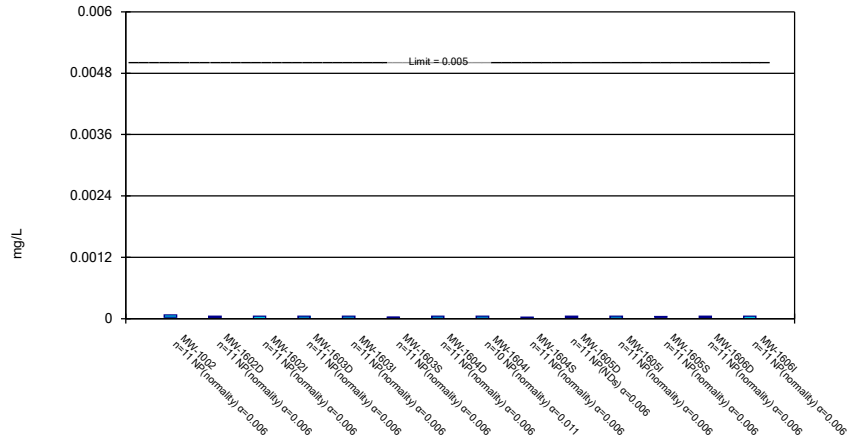
Compliance Limit is not exceeded.



Constituent: Beryllium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

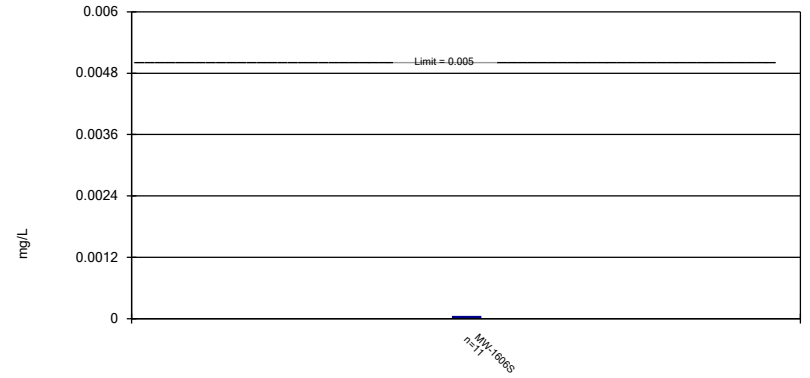
Compliance Limit is not exceeded.



Constituent: Cadmium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

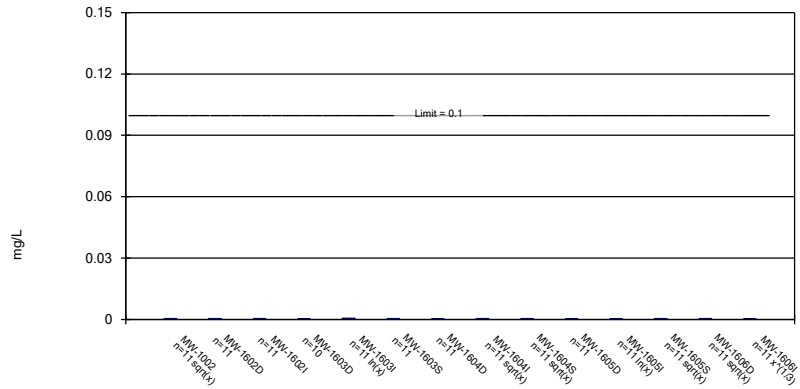
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

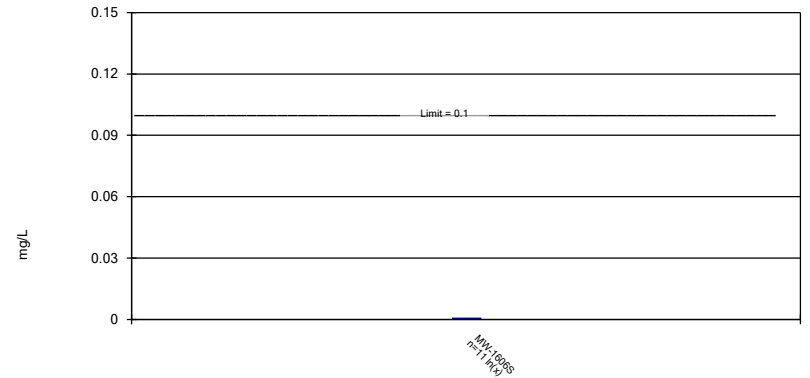
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

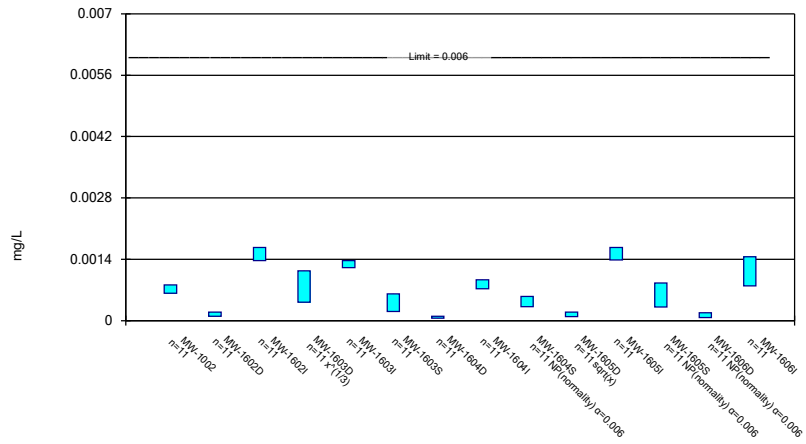
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

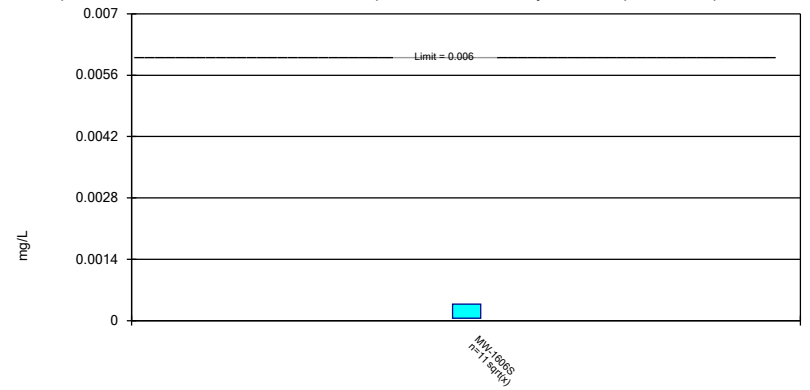
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

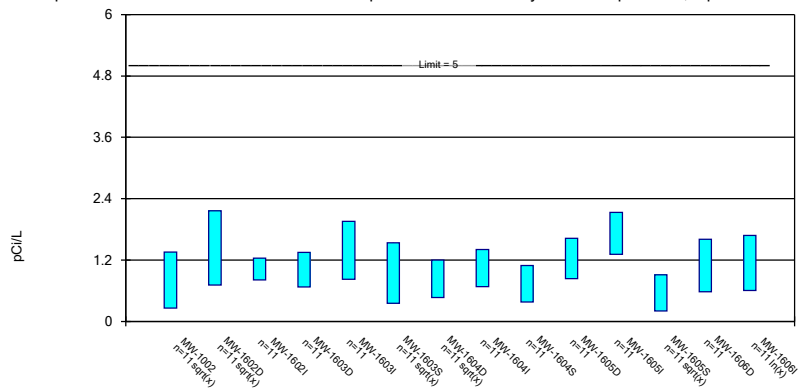
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Constituent: Cobalt, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

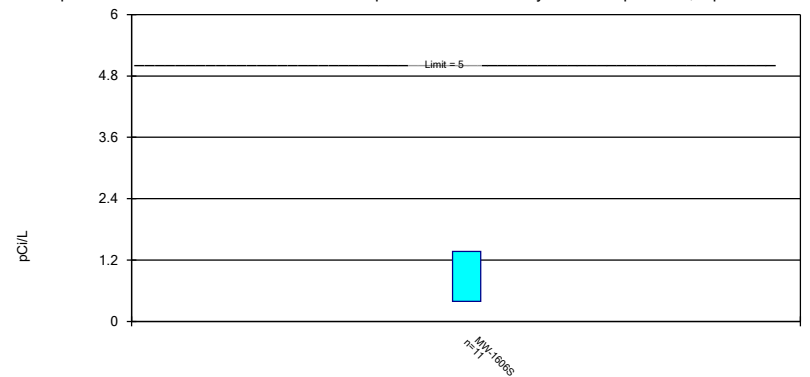
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Constituent: Combined Radium 226 + 228 Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - A
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

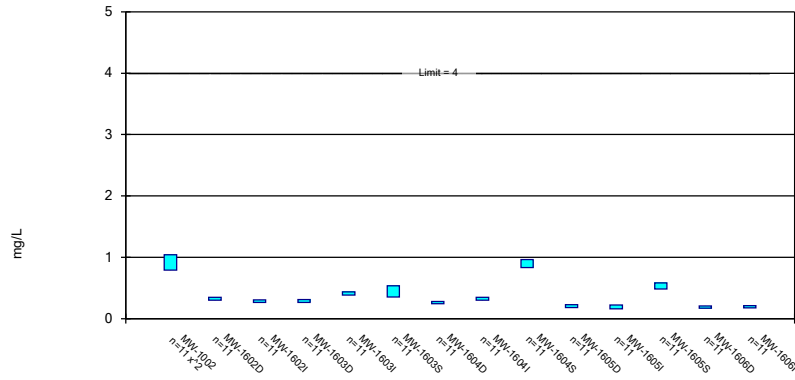
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - A
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

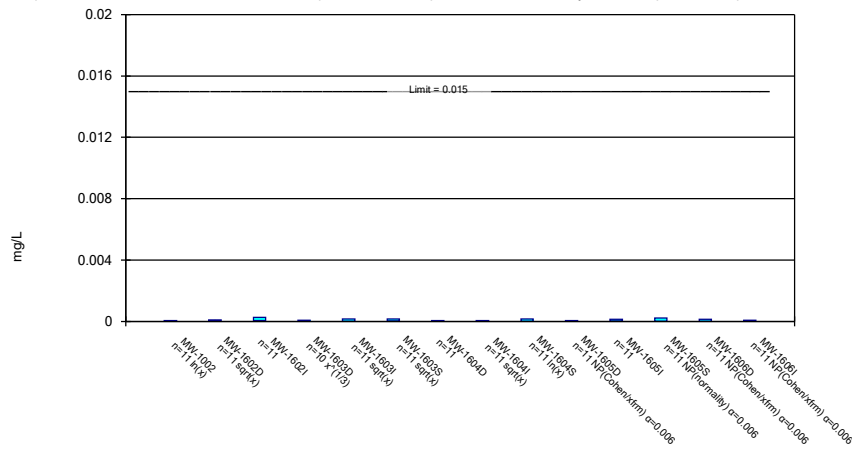
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Constituent: Fluoride, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

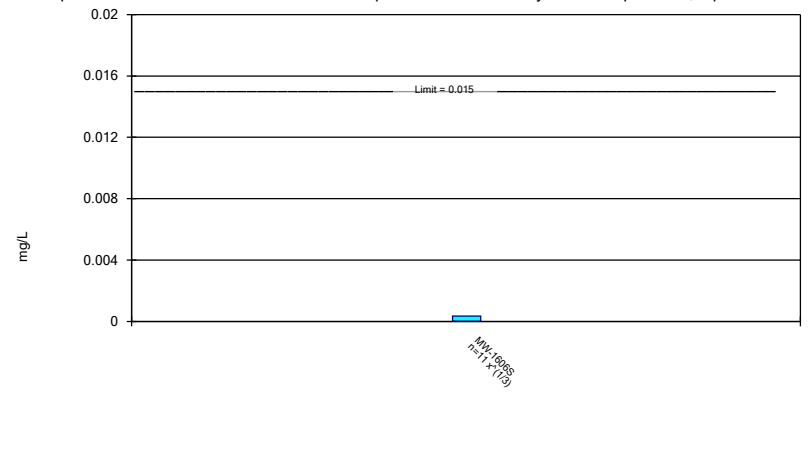
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

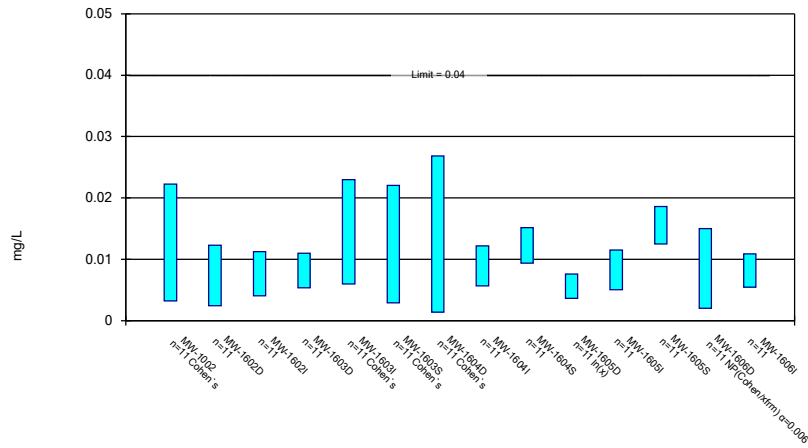
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

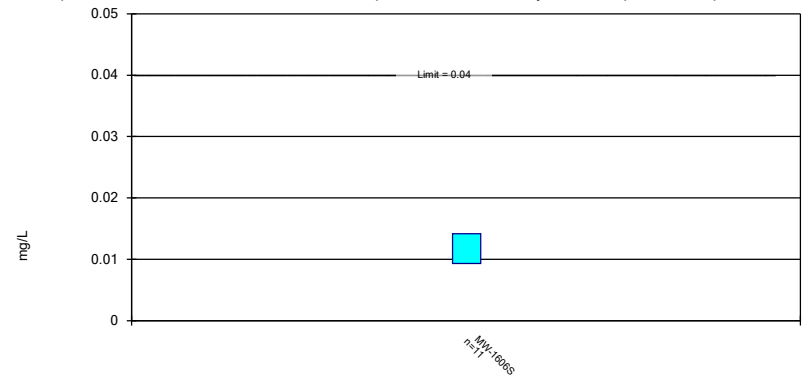
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

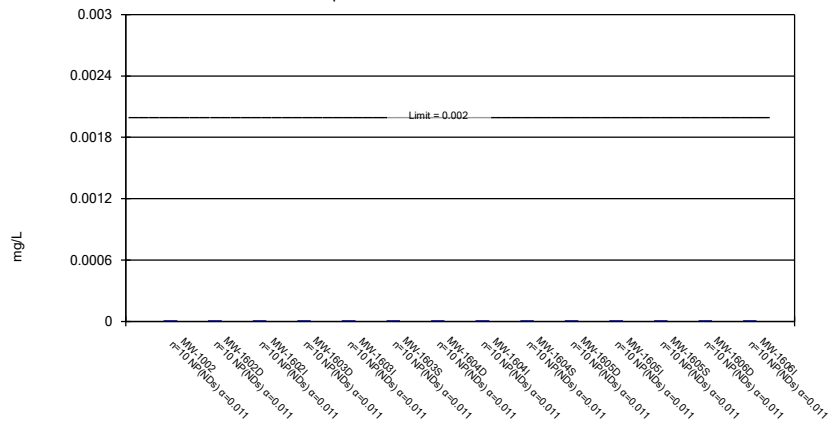
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

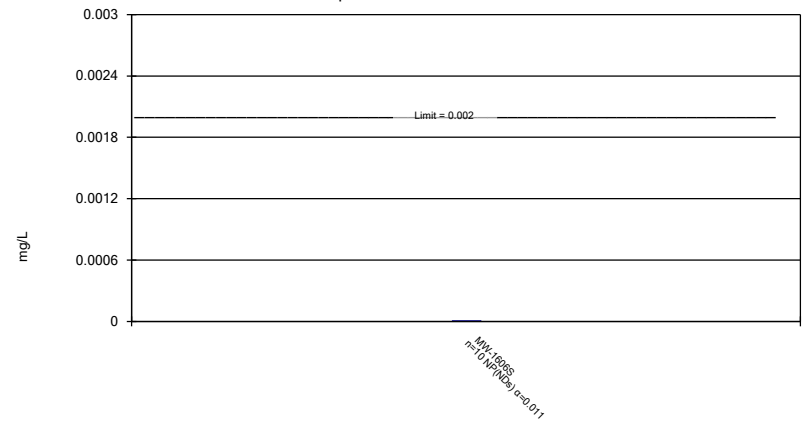
Compliance Limit is not exceeded.



Constituent: Mercury, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

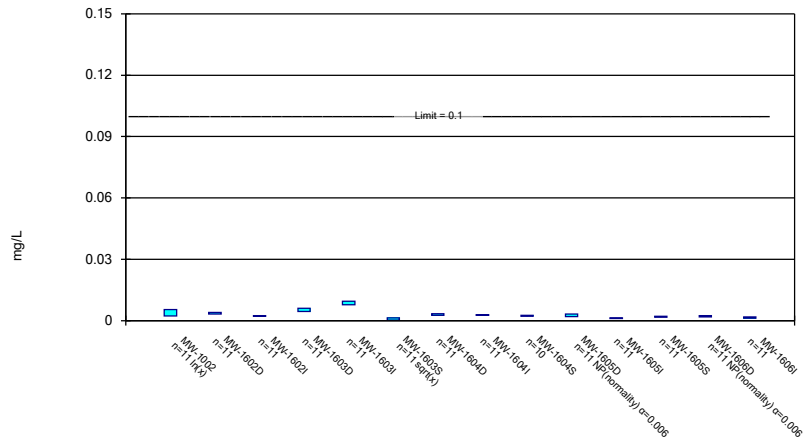
Compliance Limit is not exceeded.



Constituent: Mercury, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

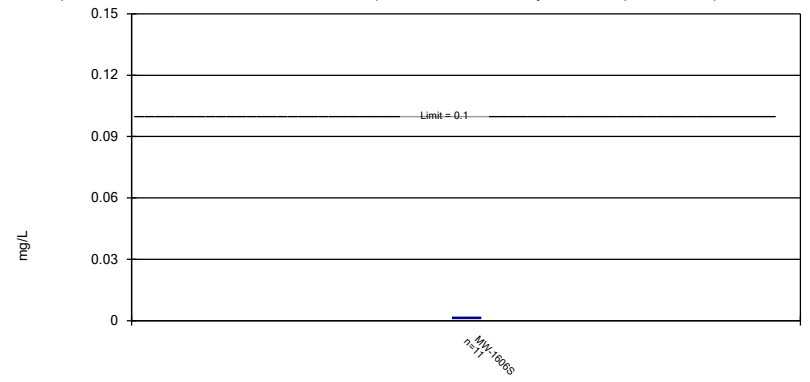
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

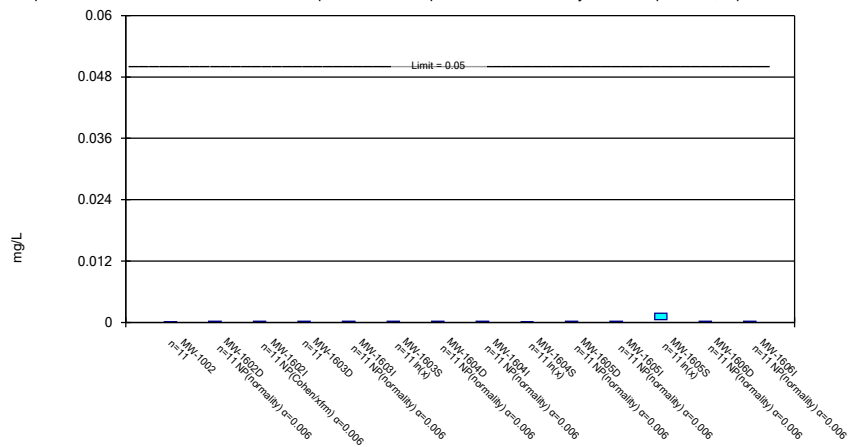
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

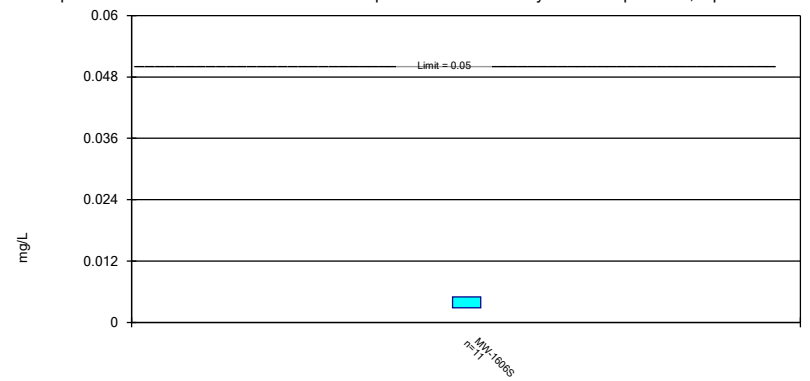
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

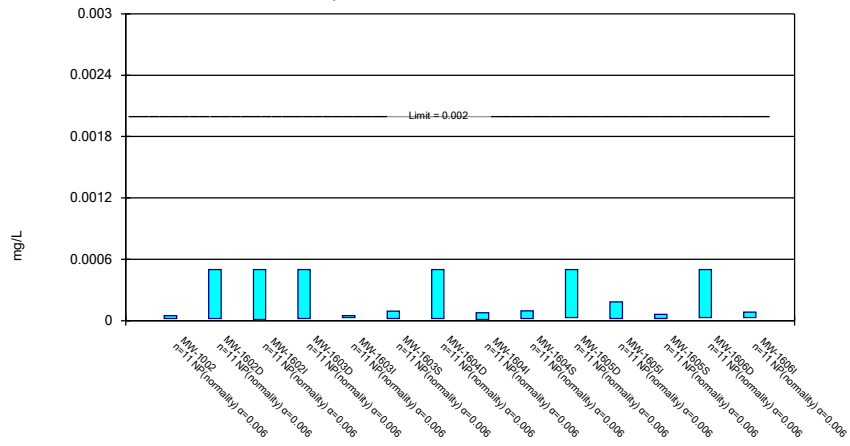
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

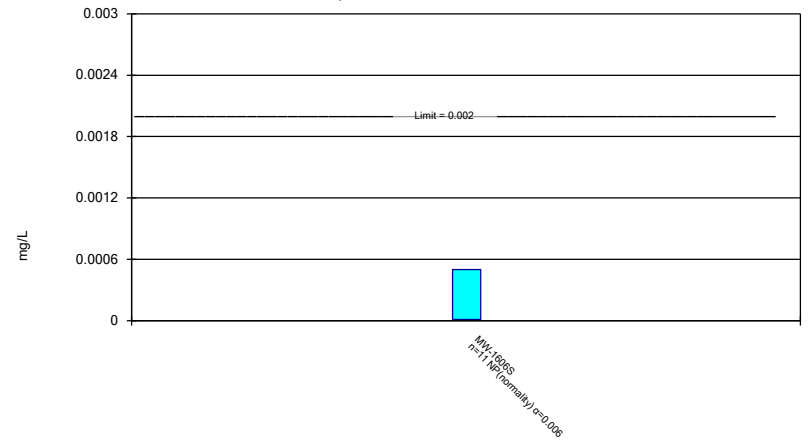
Compliance Limit is not exceeded.



Constituent: Thallium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium, total Analysis Run 8/8/2019 5:02 PM View: Confidence Intervals - App IV
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

APPENDIX 3

ROCKPORT PLANT CCR BOTTOM ASH PONDS

ANNUAL GROUNDWATER MONITORING REPORT COVERING 2019 ACTIVITIES

STATISTICAL ANALYSES SUMMARY OF JUNE AND SEPTEMBER 2019 SAMPLING EVENTS

STATISTICAL ANALYSIS SUMMARY
BOTTOM ASH POND
Rockport Plant
Rockport, Indiana

Submitted to



1 Riverside Plaza
Columbus, Ohio 43215-2372

Submitted by



engineers | scientists | innovators

941 Chatham Lane
Suite 103
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December 19, 2019

CHA8473

TABLE OF CONTENTS

| | |
|--|-----|
| SECTION 1 Executive Summary | 1 |
| SECTION 2 Bottom Ash Pond Evaluation..... | 2-1 |
| 2.1 Data Validation & QA/QC | 2-1 |
| 2.2 Statistical Analysis..... | 2-1 |
| 2.2.1 Establishment of GWPSs..... | 2-1 |
| 2.2.2 Evaluation of Potential Appendix IV SSLs | 2-2 |
| 2.2.3 Establishment of Appendix III Prediction Limits..... | 2-2 |
| 2.2.4 Evaluation of Potential Appendix III SSIs | 2-3 |
| 2.3 Conclusions..... | 2-4 |
| SECTION 3 References | 3-1 |

LIST OF TABLES

| | |
|---------|----------------------------------|
| Table 1 | Groundwater Data Summary |
| Table 2 | Groundwater Protection Standards |
| Table 3 | Revised Prediction Limits |
| Table 4 | Appendix III Data Summary |

LIST OF ATTACHMENTS

| | |
|--------------|--|
| Attachment A | Certification by Qualified Professional Engineer |
| Attachment B | Statistical Analysis Output |

LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|-------|---|
| AEP | American Electric Power |
| ASD | Alternative Source Demonstration |
| BAP | Bottom Ash Pond |
| CCR | Coal Combustion Residuals |
| CCV | Continuing Calibration Verification |
| CFR | Code of Federal Regulations |
| GWPS | Groundwater Protection Standard |
| LCL | Lower Confidence Limit |
| LFB | Laboratory Fortified Blanks |
| LRB | Laboratory Reagent Blanks |
| MCL | Maximum Contaminant Level |
| NELAP | National Environmental Laboratory Accreditation Program |
| QA | Quality Assurance |
| QC | Quality Control |
| SSI | Statistically Significant Increase |
| SSL | Statistically Significant Level |
| SU | Standard Unit |
| TDS | Total Dissolved Solids |
| UPL | Upper Prediction Limit |
| USEPA | United States Environmental Protection Agency |
| UTL | Upper Tolerance Limit |

SECTION 1

EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency's (USEPA's) regulations regarding the disposal of coal combustion residuals (CCR) in landfills and surface impoundments (40 CFR 257.90-257.98, "CCR rule"), groundwater monitoring has been conducted at the Bottom Ash Pond (BAP), an existing CCR unit at the Rockport Power Plant located in Rockport, Indiana.

Based on detection monitoring conducted in 2017 and 2018, statistically significant increases (SSIs) over background were concluded for boron, chloride, fluoride, total dissolved solids (TDS), and sulfate at the BAP. An alternative source was not identified at the time, so the BAP has been in assessment monitoring since. The most recent assessment event was the second semiannual assessment monitoring event of 2018, which was completed in May 2019 in accordance with 40 CFR 257.95(d). No SSLs were identified during this event, as previously reported (Geosyntec, 2019).

Two assessment monitoring events were conducted at the BAP in June 2019 and September 2019 in accordance with 40 CFR 257.95(b) and 40 CFR 257.95(d), respectively. The results of these assessment events are documented in this report. Groundwater data underwent several validation tests, including those for completeness, sample tracking accuracy, transcription errors, and consistent use of measurement units. No data quality issues were identified which would impact the usability of the data.

The monitoring data were submitted to Groundwater Stats Consulting, LLC for statistical analysis. Groundwater protection standards (GWPSs) were re-established for the Appendix IV parameters. Confidence intervals were calculated for Appendix IV parameters at the compliance wells to assess whether Appendix IV parameters were present at a statistically significant level (SSL) above the GWPS. No SSLs were identified. Prediction limits were calculated for Appendix III parameters. When compared to the revised prediction limits, concentrations for boron, calcium, chloride, fluoride, pH, sulfate, and TDS remained above background. Thus, either the unit will remain in assessment monitoring or an alternative source demonstration (ASD) will be conducted to evaluate if the unit can return to detection monitoring. Certification of the selected statistical methods by a qualified professional engineer is documented in Attachment A.

SECTION 2

BOTTOM ASH POND EVALUATION

2.1 Data Validation & QA/QC

During the assessment monitoring program, two sets of samples were collected for analysis from each upgradient and downgradient well to meet the requirements of 40 CFR 257.95(b) (June 2019) and 257.95(d)(1) (September 2019). Samples from both sampling events were analyzed for the Appendix III and Appendix IV parameters. A summary of data collected during these assessment monitoring events may be found in Table 1.

Chemical analysis was completed by an analytical laboratory certified by the National Environmental Laboratory Accreditation Program (NELAP). Quality assurance and quality control (QA/QC) samples completed by the analytical laboratory included the use of laboratory reagent blanks (LRBs), continuing calibration verification (CCV) samples, and laboratory fortified blanks (LFBs).

The analytical data were imported into a Microsoft Access database, where checks were completed to assess the accuracy of sample location identification and analyte identification. Where necessary, unit conversions were applied to standardize reported units across all sampling events. Exported data files were created for use with the Sanitas™ v.9.6.23 statistics software. The export file was checked against the analytical data for transcription errors and completeness. No QA/QC issues were noted which would impact data usability.

2.2 Statistical Analysis

Statistical analyses for the BAP were conducted in accordance with the January 2017 *Statistical Analysis Plan* (AEP, 2017), except where noted below. Time series plots and results for all completed statistical tests are provided in Attachment B.

The data obtained in June and September 2019 were screened for potential outliers. An outlier for arsenic was identified in the June 2019 data at MW-1605S and was removed from the dataset. Additionally, where molybdenum was not detected during the June 2019 event it was replaced with a reporting limit of 0.01 mg/L, which is much higher than previous events. These values were flagged as outliers.

2.2.1 Establishment of GWPSs

A GWPS was established for each Appendix IV parameter in accordance with 40 CFR 257.95(h) and the *Statistical Analysis Plan* (AEP, 2017). The established GWPS was determined to be the greater value of the background concentration and the maximum contaminant level (MCL) or risk-based level specified in 40 CFR 257.95(h)(2) for each Appendix IV parameter. To determine background concentrations, an upper tolerance limit (UTL) was calculated using pooled data from

the background wells collected during the background monitoring and assessment monitoring events. Generally, tolerance limits were calculated parametrically with 95% coverage and 95% confidence. Non-parametric tolerance limits were calculated for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lithium, molybdenum, selenium, and thallium due to apparent non-normal distributions and for mercury due to a high non-detect frequency. Tolerance limits and the final GWPSs are summarized in Table 2.

2.2.2 Evaluation of Potential Appendix IV SSLs

A confidence interval was constructed for each Appendix IV parameter at each compliance well. Confidence limits were generally calculated parametrically ($\alpha = 0.01$); however, non-parametric confidence limits were calculated in some cases (e.g., when the data did not appear to be normally distributed or when the non-detect frequency was too high). An SSL was concluded if the lower confidence limit (LCL) exceeded the GWPS (i.e., if the entire confidence interval exceeded the GWPS). Calculated confidence limits are shown in Attachment B.

No SSLs were identified at the Rockport BAP.

2.2.3 Establishment of Appendix III Prediction Limits

Upper prediction limits (UPLs) were previously established for all Appendix III parameters following the background monitoring period (Geosyntec, 2018). Intrawell tests were used to evaluate potential SSIs for calcium and pH, whereas interwell tests were used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS. While interwell prediction limits have been updated periodically during the assessment monitoring period as sufficient data became available, this represents the first update to the background dataset for parameters evaluated using intrawell tests.

Mann-Whitney (Wilcoxon rank-sum) tests were performed to determine whether the newer data are affected by a release from the BAP. Because the interwell Appendix III limits and the Appendix IV GWPSs are based on data from upgradient wells which we would not expect to have been impacted by a release, these tests were used for intrawell Appendix III tests only. Mann-Whitney tests were used to compare the medians of historical data (June 2016 - July 2017) to the new compliance samples (October 2017 – May 2019) for calcium and pH. Results were evaluated to determine if the medians of the two groups were similar at the 99% confidence level. Where no significant difference was found, the new compliance data were added to the background dataset. Where a statistically significant difference was found between the medians of the two groups, the data were reviewed to evaluate the cause of the difference and to determine if adding newer data to the background dataset, replacing the background dataset with the newer data, or continuing to use the existing background dataset was most appropriate. If the differences appeared to have been caused by a release, then the previous background dataset would have continued to be used.

The complete Mann-Whitney test results and a summary of the significant findings can be found in Appendix B. A statistically significant difference was identified for pH at MW-1002. Because

the majority of the recent concentrations are very similar to historical measurements, the background was updated to include all data through May 2019.

After the revised background set was established, a parametric or non-parametric analysis was selected based on the distribution of the data and the frequency of non-detect data. Estimated results less than the practical quantitation limit (PQL) – i.e., “J-flagged” data – were considered detections and the estimated results were used in the statistical analyses. Non-parametric analyses were selected for datasets with at least 50% non-detect data or datasets that could not be normalized. Parametric analyses were selected for datasets (either transformed or untransformed) that passed the Shapiro-Wilk / Shapiro-Francia test for normality. The Kaplan-Meier non-detect adjustment was applied to datasets with between 15% and 50% non-detect data. For datasets with fewer than 15% non-detect data, non-detect data were replaced with one half of the PQL. The selected analysis (i.e., parametric or non-parametric) and transformation (where applicable) for each background dataset are shown in Attachment B.

UPLs were updated using all the historical data through May 2019 to represent background values. LPLs were also updated for pH. The updated prediction limits are summarized in Table 3. Intrawell tests continued to be used to evaluate potential SSIs for calcium and pH, whereas interwell tests continued to be used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS. For intrawell tests, the UPLs were calculated for a one-of-three retesting procedure; i.e., if at least one sample in a series of three does not exceed the UPL, then it can be concluded that an SSI has not occurred. In practice, where the initial result did not exceed the UPL, a second sample will not be collected. The interwell tests were calculated for a one-of-two retesting procedure. The retesting procedures allowed achieving an acceptably high statistical power to detect changes at downgradient wells for constituents evaluated using intrawell prediction limits.

2.2.4 Evaluation of Potential Appendix III SSIs

The CCR rule allows CCR units to move from assessment monitoring to detection monitoring if all Appendix III and Appendix IV parameters were at or below background levels for two consecutive sampling events [40 CFR 257.95(e)]. Since no Appendix IV SSLs were identified, Appendix III results were analyzed to assess whether concentrations of Appendix III parameters at the compliance wells exceeded background concentrations.

Data collected during the June 2019 and August 2019 assessment monitoring events from each compliance well were compared to the prediction limits to evaluate results above background values. The results from this event and the prediction limits are summarized in Table 4. The following exceedances of the UPLs were noted:

- Boron concentrations exceeded the interwell UPL of 0.135 mg/L at MW-1002 (1.82 mg/L and 1.78 mg/L), MW-1603S (1.65 mg/L and 2.16 mg/L), MW-1604I (0.278 mg/L and 0.269 mg/L), MW-1604S (0.667 mg/L and 0.802 mg/L), MW-1605I (0.199 mg/L) and MW-1605S (0.438 mg/L and 0.431 mg/L).

- Calcium concentrations exceeded the intrawell UPL of 86.3 mg/L at MW-1606I (86.8 mg/L).
- Chloride concentrations exceeded the interwell UPL of 46.4 mg/L at MW-1002 (57.1 mg/L and 54.7 mg/L), MW-1602D (68.7 mg/L and 65.1 mg/L), MW-1603S (57.8 mg/L and 51.1 mg/L), MW-1604I (63.5 mg/L), MW-1604S (81.4 mg/L and 57.6 mg/L), and MW-1605S (49.4 mg/L).
- Fluoride concentrations exceeded the interwell UPL of 0.700 mg/L at MW-1002 (1.10 mg/L and 1.03 mg/L) and MW-1604S (0.910 mg/L and 1.63 mg/L).
- The pH measurement exceeded the intrawell UPL of 7.4 SU at MW-1603D (7.6 SU), the intrawell UPL of 7.8 SU at MW-1603I (8.1 SU). The pH measurement at MW-1605S was below the intrawell LPL of 7.1 SU (7.0 SU).
- Sulfate concentrations exceeded the interwell UPL of 76.0 mg/L at MW-1002 (173 mg/L and 178 mg/L), MW-1603S (205 mg/L and 224 mg/L), MW-1604I (167 mg/L and 127 mg/L), MW-1604S (246 mg/L and 134 mg/L), MW-1605I (104 mg/L and 128 mg/L), and MW-1605S (150 mg/L and 162 mg/L).
- TDS concentrations exceeded the interwell UPL of 465 mg/L at MW-1603I (560 mg/L), MW-1603S (530 mg/L and 482 mg/L), MW-1604I (622 mg/L and 515 mg/L), MW-1604S (718 mg/L and 506 mg/L), MW-1605I (471 mg/L and 524 mg/L), and MW-1605S (595 mg/L and 593 mg/L).

Based on these results, concentrations of Appendix III parameters exceeded background levels at compliance wells at the Rockport BAP during assessment monitoring. As a result, the Rockport BAP CCR unit will remain in assessment monitoring.

2.3 Conclusions

A semi-annual assessment monitoring event was conducted in accordance with the CCR Rule. The laboratory and field data were reviewed prior to statistical analysis, with no QA/QC issues identified that impacted data usability. A review of outliers resulted in the removal of non-detect molybdenum values from the June 2019 event and an arsenic value at MW-1605S. GWPSs were re-established for the Appendix IV parameters. A confidence interval was constructed at each compliance well for each Appendix IV parameter; SSLs were concluded if the entire confidence interval exceeded the GWPS. No SSLs were identified.

Revised prediction limits were calculated for Appendix III parameters. Intrawell tests continued to be used to evaluate potential SSIs for calcium and pH, whereas interwell tests continued to be used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS. Prediction limits were recalculated using a one-of-three retesting procedure for intrawell tests and a one-of-two retesting procedure for interwell tests. The Appendix III results were evaluated to assess whether

concentrations of Appendix III parameters exceeded background levels. Boron, calcium, chloride, fluoride, pH, sulfate, and TDS results exceeded background levels.

Based on this evaluation, either the Rockport BAP CCR unit will remain in assessment monitoring or an ASD will be conducted to evaluate if the unit can return to detection monitoring.

SECTION 3

REFERENCES

American Electric Power (AEP). 2017. Statistical Analysis Plan – Rockport Plant. January 2017.

Geosyntec Consultants (Geosyntec). 2018. Statistical Analysis Summary – Bottom Ash Pond, Rockport Plant, Rockport, Indiana. January 15, 2018.

Geosyntec Consultants (Geosyntec). 2019. Statistical Analysis Summary – Bottom Ash Pond, Rockport Plant, Rockport, Indiana. October 11, 2019.

TABLES

**Table 1: Groundwater Data Summary
Rockport Plant - Bottom Ash Pond**

| Component | Unit | MW-1002 | | MW-1600D | | MW-1600I | | MW-1600S | | MW-1601D | |
|------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 6/27/2019 | 9/12/2019 | 6/25/2019 | 9/10/2019 | 6/25/2019 | 9/10/2019 | 6/25/2019 | 9/10/2019 | 6/26/2019 | 9/9/2019 |
| Antimony | µg/L | 0.0500 J | 0.0500 J | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Arsenic | µg/L | 0.240 | 0.220 | 16.6 | 16.1 | 17.2 | 16.9 | 0.480 | 0.460 | 9.80 | 11.0 |
| Barium | µg/L | 14.8 | 15.8 | 867 | 884 | 740 | 722 | 22.0 | 21.9 | 542 | 575 |
| Beryllium | µg/L | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Boron | mg/L | 1.82 | 1.78 | 0.0300 J | 0.0500 U | 0.0200 J | 0.0200 J | 0.0500 J | 0.0400 J | 0.0400 J | 0.0300 J |
| Cadmium | µg/L | 0.0300 J | 0.0200 J | 0.0500 U | 0.0500 U | 0.0500 U | 0.0500 U | 0.0100 J | 0.0100 J | 0.0500 U | 0.0500 U |
| Calcium | mg/L | 36.0 | 33.5 | 84.2 | 90.1 | 76.0 | 81.1 | 62.7 | 64.8 | 85.9 | 84.4 |
| Chloride | mg/L | 57.1 | 54.7 | 31.0 | 31.1 | 25.0 | 25.6 | 21.4 | 23.9 | 18.7 | 19.9 |
| Chromium | µg/L | 0.0700 J | 0.469 | 0.100 J | 0.200 J | 0.200 U | 0.100 J | 0.0800 J | 0.200 J | 0.0700 J | 0.0800 J |
| Cobalt | µg/L | 0.805 | 0.635 | 0.146 | 0.132 | 1.23 | 1.29 | 0.193 | 0.149 | 0.0750 | 0.0540 |
| Combined Radium | pCi/L | 0.682 | 0.384 | 1.12 | 1.62 | 2.30 | 1.22 | 0.528 | 0.209 | 0.986 | 0.702 |
| Fluoride | mg/L | 1.10 | 1.03 | 0.220 | 0.230 | 0.230 | 0.240 | 0.470 | 0.460 | 0.160 | 0.180 |
| Lead | µg/L | 0.0300 J | 0.200 U | 0.135 | 0.100 J | 0.100 U | 0.200 U | 0.0900 J | 0.0800 J | 0.0200 J | 0.200 U |
| Lithium | mg/L | 0.0300 U | 0.00438 | 0.0100 J | 0.00627 | 0.00900 J | 0.00720 | 0.0300 J | 0.0126 | 0.0200 J | 0.00170 |
| Mercury | mg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 10.4 | 10.2 | 2.00 J | 2.00 J | 2.00 J | 2.00 J | 0.500 J | 0.600 J | 2.94 | 3.15 |
| Selenium | µg/L | 0.0800 J | 0.0600 J | 0.0500 J | 0.200 U | 0.200 U | 0.200 U | 0.400 | 0.500 | 0.200 U | 0.200 U |
| Total Dissolved Solids | mg/L | 425 | 418 | 407 | 404 | 401 | 404 | 398 | 383 | 409 | 404 |
| Sulfate | mg/L | 173 | 178 | 37.7 | 41.3 | 46.7 | 50.8 | 40.9 | 45.0 | 22.9 | 18.2 |
| Thallium | µg/L | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U |
| pH | SU | 7.05 | 6.65 | 7.12 | 7.18 | 7.10 | 7.19 | 6.82 | 6.87 | 7.21 | 7.16 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Parameter was not present in concentrations above the method detection limit and is reported as the reporting limit

J: Estimated value. Parameter was detected in concentrations below the reporting limit

**Table 1: Groundwater Data Summary
Rockport Plant - Bottom Ash Pond**

| Component | Unit | MW-1601I | | MW-1601S | | MW-1602D | | MW-1602I | | MW-1603D | |
|------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 6/26/2019 | 9/9/2019 | 6/25/2019 | 9/9/2019 | 6/27/2019 | 9/12/2019 | 6/27/2019 | 9/12/2019 | 6/27/2019 | 9/11/2019 |
| Antimony | µg/L | 0.100 U | 0.0400 J | 0.100 U | 0.0200 J | 0.100 U | 0.170 | 0.0300 J | 0.0400 J | 0.100 U | 0.100 U |
| Arsenic | µg/L | 18.0 | 39.5 | 2.06 | 2.30 | 9.05 | 10.3 | 22.4 | 30.0 | 13.2 | 13.2 |
| Barium | µg/L | 619 | 670 | 44.2 | 51.4 | 386 | 433 | 115 | 120 | 111 | 112 |
| Beryllium | µg/L | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.0200 J | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Boron | mg/L | 0.0300 J | 0.0200 J | 0.0700 J | 0.0680 | 0.0600 J | 0.0590 | 0.0600 J | 0.0510 | 0.0600 J | 0.0400 J |
| Cadmium | µg/L | 0.0500 U | 0.0700 | 0.0500 U | 0.0200 J | 0.0500 U | 0.0300 J | 0.0500 U | 0.0500 U | 0.0500 U | 0.0500 U |
| Calcium | mg/L | 85.0 | 85.1 | 75.9 | 79.6 | 69.8 | 57.8 | 76.2 | 83.1 | 77.9 | 82.8 |
| Chloride | mg/L | 31.2 | 30.8 | 35.3 | 37.6 | 68.7 | 65.1 | 29.2 | 28.7 | 25.0 | 26.1 |
| Chromium | µg/L | 0.0600 J | 0.250 | 0.100 J | 0.452 | 0.0600 J | 0.763 | 0.200 J | 0.100 J | 0.0600 J | 0.200 J |
| Cobalt | µg/L | 1.50 | 1.63 | 0.649 | 1.14 | 0.0660 | 0.373 | 1.39 | 1.32 | 0.327 | 0.327 |
| Combined Radium | pCi/L | 1.86 | 1.52 | 0.248 | 0.914 | 0.688 | 1.13 | 0.733 | 1.31 | 0.766 | 0.957 |
| Fluoride | mg/L | 0.210 | 0.220 | 0.310 | 0.310 | 0.330 | 0.280 | 0.300 | 0.300 | 0.300 | 0.300 |
| Lead | µg/L | 0.0400 J | 0.251 | 0.165 | 0.325 | 0.0200 J | 0.437 | 0.0600 J | 0.100 J | 0.100 U | 0.0800 J |
| Lithium | mg/L | 0.0200 J | 0.00672 | 0.0100 J | 0.00691 | 0.0300 U | 0.00286 | 0.0300 U | 0.00572 | 0.0300 U | 0.00380 |
| Mercury | mg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 2.28 | 2.26 | 1.00 J | 1.00 J | 3.12 | 3.64 | 2.00 J | 2.11 | 3.98 | 4.10 |
| Selenium | µg/L | 0.200 U | 0.0400 J | 1.40 | 1.20 | 0.0300 J | 0.0900 J | 0.200 U | 0.0300 J | 0.200 U | 0.0300 J |
| Total Dissolved Solids | mg/L | 439 | 426 | 456 | 445 | 429 | 440 | 405 | 404 | 388 | 407 |
| Sulfate | mg/L | 50.8 | 42.7 | 51.4 | 52.9 | 20.3 | 20.2 | 67.4 | 70.7 | 32.8 | 36.4 |
| Thallium | µg/L | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U |
| pH | SU | 7.21 | 7.06 | 7.31 | 7.20 | 7.32 | 7.14 | 7.25 | 7.26 | 7.58 | 7.21 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Parameter was not present in concentrations above the method detection limit and is reported as the reporting limit

J: Estimated value. Parameter was detected in concentrations below the reporting limit

**Table 1: Groundwater Data Summary
Rockport Plant - Bottom Ash Pond**

| Component | Unit | MW-1603I | | MW-1603S | | MW-1604D | | MW-1604I | | MW-1604S | |
|------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 6/27/2019 | 9/11/2019 | 6/27/2019 | 9/11/2019 | 6/26/2019 | 9/10/2019 | 6/27/2019 | 9/11/2019 | 6/26/2019 | 9/10/2019 |
| Antimony | µg/L | 0.0700 J | 0.0800 J | 0.0300 J | 0.0400 J | 0.100 U | 0.100 U | 0.0200 J | 0.0300 J | 0.0400 J | 0.0600 J |
| Arsenic | µg/L | 12.7 | 13.2 | 0.170 | 0.220 | 18.2 | 18.0 | 18.5 | 20.7 | 0.470 | 0.260 |
| Barium | µg/L | 84.3 | 83.0 | 13.7 | 12.0 | 263 | 257 | 135 | 119 | 46.1 | 12.0 |
| Beryllium | µg/L | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U | 0.100 U |
| Boron | mg/L | 0.0700 J | 0.0870 | 1.65 | 2.16 | 0.0300 J | 0.0200 J | 0.278 | 0.269 | 0.667 | 0.802 |
| Cadmium | µg/L | 0.0100 J | 0.0500 U | 0.0300 J | 0.0200 J | 0.0500 U | 0.0500 U | 0.0500 U | 0.0500 U | 0.0200 J | 0.0200 J |
| Calcium | mg/L | 78.6 | 80.1 | 67.2 | 55.1 | 69.5 | 74.7 | 75.2 | 71.5 | 75.8 | 53.1 |
| Chloride | mg/L | 37.7 | 38.7 | 57.8 | 51.1 | 15.8 | 15.9 | 63.5 | 43.6 | 81.4 | 57.6 |
| Chromium | µg/L | 0.678 | 0.355 | 0.0600 J | 0.0400 J | 0.0600 J | 0.0900 J | 0.0900 J | 0.100 J | 0.100 J | 0.202 |
| Cobalt | µg/L | 1.58 | 1.36 | 0.383 | 0.266 | 0.0670 | 0.0520 | 0.979 | 0.735 | 1.13 | 0.207 |
| Combined Radium | pCi/L | 0.966 | 1.41 | 0.555 | 0.172 | 1.16 | 0.859 | 0.888 | 0.819 | 0.565 | 0.115 |
| Fluoride | mg/L | 0.470 | 0.460 | 0.590 | 0.690 | 0.280 | 0.280 | 0.380 | 0.350 | 0.910 | 1.63 |
| Lead | µg/L | 0.312 | 0.200 J | 0.100 U | 0.200 U | 0.0400 J | 0.200 U | 0.100 U | 0.200 U | 0.122 | 0.200 U |
| Lithium | mg/L | 0.0300 U | 0.00711 | 0.0300 U | 0.00414 | 0.0300 U | 0.00157 | 0.0300 U | 0.00772 | 0.0100 J | 0.00913 |
| Mercury | mg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 6.29 | 7.48 | 0.500 J | 0.600 J | 2.58 | 2.70 | 2.51 | 2.26 | 1.00 J | 4.72 |
| Selenium | µg/L | 0.0700 J | 0.200 U | 1.50 | 0.300 | 0.200 U | 0.200 U | 0.100 J | 0.0500 J | 0.200 | 0.100 J |
| Total Dissolved Solids | mg/L | 560 | 443 | 530 | 482 | 326 | 326 | 622 | 515 | 718 | 506 |
| Sulfate | mg/L | 66.9 | 58.2 | 205 | 224 | 23.2 | 24.7 | 167 | 127 | 246 | 134 |
| Thallium | µg/L | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U | 0.500 U |
| pH | SU | 8.07 | 7.31 | 7.30 | 7.10 | 7.29 | 7.28 | 7.50 | 7.42 | 7.50 | 7.52 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Parameter was not present in concentrations above the method detection limit and is reported as the reporting limit

J: Estimated value. Parameter was detected in concentrations below the reporting limit

**Table 1: Groundwater Data Summary
Rockport Plant - Bottom Ash Pond**

| Component | Unit | MW-1605D | | MW-1605I | | MW-1605S | | MW-1606D | | MW-1606I | |
|------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 6/25/2019 | 9/12/2019 | 6/25/2019 | 9/12/2019 | 6/27/2019 | 9/12/2019 | 6/24/2019 | 9/12/2019 | 6/25/2019 | 9/12/2019 |
| Antimony | µg/L | 0.100 U | 0.100 U | 0.500 U | 0.0500 J | 0.110 | 0.0400 J | 0.100 U | 0.100 U | 0.500 U | 0.0200 J |
| Arsenic | µg/L | 18.3 | 21.2 | 17.8 | 22.3 | 2.44 | 0.610 | 17.5 | 17.4 | 7.96 | 11.2 |
| Barium | µg/L | 365 | 471 | 134 | 154 | 12.5 | 6.72 | 431 | 458 | 78.1 | 76.7 |
| Beryllium | µg/L | 0.100 U | 0.100 U | 0.500 U | 0.100 U | 0.0400 J | 0.100 U | 0.100 U | 0.100 U | 0.500 U | 0.100 U |
| Boron | mg/L | 0.100 U | 0.0500 U | 0.126 | 0.199 | 0.438 | 0.431 | 0.0200 J | 0.0500 U | 0.100 U | 0.0500 U |
| Cadmium | µg/L | 0.0500 U | 0.0500 U | 0.200 U | 0.0500 U | 0.0700 | 0.0400 J | 0.0500 U | 0.0500 U | 0.200 U | 0.0500 U |
| Calcium | mg/L | 82.1 | 84.0 | 83.4 | 89.4 | 72.0 | 77.0 | 80.8 | 76.7 | 86.8 | 72.8 |
| Chloride | mg/L | 22.1 | 23.7 | 38.3 | 41.7 | 46.3 | 49.4 | 25.2 | 26.9 | 31.5 | 20.1 |
| Chromium | µg/L | 0.200 J | 0.652 | 1.00 U | 0.100 J | 0.536 | 0.0900 J | 0.100 J | 0.0900 J | 1.00 U | 0.100 J |
| Cobalt | µg/L | 0.104 | 0.0840 | 1.29 | 1.42 | 2.46 | 0.469 | 0.0680 | 0.0850 | 1.80 | 1.58 |
| Combined Radium | pCi/L | 0.655 | 0.896 | 2.12 | 1.68 | 0.245 | 0.00129 | 0.809 | 0.593 | 1.21 | 0.947 |
| Fluoride | mg/L | 0.210 | 0.220 | 0.210 | 0.200 | 0.630 | 0.540 | 0.190 | 0.180 | 0.180 | 0.180 |
| Lead | µg/L | 0.0500 J | 0.200 U | 0.500 U | 0.100 J | 1.52 | 0.100 J | 0.0200 J | 0.200 U | 0.500 U | 0.200 U |
| Lithium | mg/L | 0.0300 U | 0.00176 | 0.0100 J | 0.00628 | 0.0300 U | 0.0108 | 0.0300 U | 0.000651 | 0.0100 J | 0.00405 |
| Mercury | mg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 2.00 J | 2.08 | 10.0 U | 1.00 J | 2.00 J | 2.07 | 2.00 J | 2.00 J | 10.0 U | 1.00 J |
| Selenium | µg/L | 0.200 U | 0.200 U | 1.00 U | 0.200 U | 0.500 | 2.00 | 0.200 U | 0.200 U | 1.00 U | 0.200 U |
| Total Dissolved Solids | mg/L | 379 | 388 | 471 | 524 | 595 | 593 | 329 | 361 | 406 | 367 |
| Sulfate | mg/L | 40.3 | 45.1 | 104 | 128 | 150 | 162 | 21.0 | 25.6 | 51.0 | 47.9 |
| Thallium | µg/L | 0.500 U | 0.500 U | 2.00 U | 0.500 U | 0.100 J | 0.500 U | 0.500 U | 0.500 U | 2.00 U | 0.500 U |
| pH | SU | 7.30 | 6.98 | 7.35 | 7.40 | 7.17 | 7.04 | 7.26 | 7.25 | 7.21 | 7.36 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Parameter was not present in concentrations above the method detection limit and is reported as the reporting limit

J: Estimated value. Parameter was detected in concentrations below the reporting limit

**Table 1: Groundwater Data Summary
Rockport Plant - Bottom Ash Pond**

| Component | Unit | MW-1606S | | MW-1701D | | MW-1701I | | MW-1701S | | MW-1702D | |
|------------------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 6/25/2019 | 9/12/2019 | 6/25/2019 | 9/9/2019 | 6/25/2019 | 9/9/2019 | 6/25/2019 | 9/9/2019 | 6/26/2019 | 9/10/2019 |
| Antimony | µg/L | 0.500 U | 0.0300 J | 0.500 U | 0.100 U | 0.500 U | 0.210 | 0.500 U | 0.160 | 0.0700 J | 0.0400 J |
| Arsenic | µg/L | 0.200 J | 0.170 | 9.58 | 9.37 | 9.47 | 7.92 | 0.400 J | 0.380 | 24.4 | 22.1 |
| Barium | µg/L | 14.4 | 11.8 | 64.6 | 65.0 | 41.9 | 40.6 | 8.08 | 16.8 | 209 | 203 |
| Beryllium | µg/L | 0.500 U | 0.100 U | 0.500 U | 0.100 U | 0.500 U | 0.100 U | 0.500 U | 0.100 U | 0.100 U | 0.100 U |
| Boron | mg/L | 0.0300 J | 0.0200 J | 0.0200 J | 0.0200 J | 0.0200 J | 0.0500 U | 0.0200 J | 0.0500 U | 0.0200 J | 0.0500 U |
| Cadmium | µg/L | 0.0600 J | 0.0300 J | 0.200 U | 0.0500 U | 0.200 U | 0.0500 U | 0.200 U | 0.0500 U | 0.0200 J | 0.0500 U |
| Calcium | mg/L | 49.8 | 44.4 | 70.8 | 70.5 | 69.4 | 65.1 | 63.5 | 57.0 | 80.0 | 86.6 |
| Chloride | mg/L | 25.0 | 24.4 | 14.9 | 16.0 | 12.8 | 12.9 | 19.6 | 20.0 | 30.4 | 30.6 |
| Chromium | µg/L | 1.00 U | 0.0800 J | 1.00 U | 0.200 J | 1.00 U | 0.0800 J | 1.00 U | 0.100 J | 0.0800 J | 0.100 J |
| Cobalt | µg/L | 0.200 U | 0.0510 | 1.62 | 1.53 | 1.16 | 0.843 | 0.200 J | 0.0730 | 0.601 | 0.536 |
| Combined Radium | pCi/L | 0.0646 | 0.105 | 2.63 | 0.341 | 0.116 | 0.781 | 0.931 | 0.327 | 0.689 | 0.639 |
| Fluoride | mg/L | 0.450 | 0.540 | 0.320 | 0.310 | 0.410 | 0.380 | 0.370 | 0.370 | 0.170 | 0.200 |
| Lead | µg/L | 0.500 U | 0.200 U | 0.500 U | 0.200 U | 0.500 U | 0.0800 J | 0.500 U | 0.200 U | 0.0700 J | 0.200 U |
| Lithium | mg/L | 0.0100 J | 0.00814 | 0.0100 J | 0.00691 | 0.0100 J | 0.00561 | 0.0100 J | 0.00556 | 0.0200 J | 0.00456 |
| Mercury | mg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 10.0 U | 1.00 J | 10.0 U | 1.00 J | 10.0 U | 1.00 J | 10.0 U | 0.700 J | 2.15 | 2.16 |
| Selenium | µg/L | 2.90 | 2.80 | 0.200 J | 0.200 U | 1.00 U | 0.200 U | 0.500 J | 0.300 | 0.0300 J | 0.200 U |
| Total Dissolved Solids | mg/L | 380 | 376 | 387 | 376 | 388 | 339 | 353 | 332 | 388 | 384 |
| Sulfate | mg/L | 41.7 | 41.9 | 39.0 | 36.6 | 36.3 | 34.5 | 20.7 | 17.8 | 39.0 | 37.9 |
| Thallium | µg/L | 2.00 U | 0.500 U | 2.00 U | 0.500 U | 2.00 U | 0.500 U | 2.00 U | 0.500 U | 0.500 U | 0.500 U |
| pH | SU | 6.98 | 7.02 | 7.12 | 7.04 | 7.65 | 7.27 | 7.25 | 7.22 | 7.63 | 7.10 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Parameter was not present in concentrations above the method detection limit and is reported as the reporting limit

J: Estimated value. Parameter was detected in concentrations below the reporting limit

**Table 1: Groundwater Data Summary
Rockport Plant - Bottom Ash Pond**

| Component | Unit | MW-1702I | | MW-1702S | |
|------------------------|-------|-----------|-----------|-----------|-----------|
| | | 6/25/2019 | 9/10/2019 | 6/25/2019 | 9/10/2019 |
| Antimony | µg/L | 0.0700 J | 0.0800 J | 0.500 U | 0.0800 J |
| Arsenic | µg/L | 54.1 | 55.8 | 0.400 J | 0.430 |
| Barium | µg/L | 114 | 112 | 5.71 | 4.87 |
| Beryllium | µg/L | 0.100 U | 0.100 U | 0.500 U | 0.100 U |
| Boron | mg/L | 0.0200 J | 0.0500 U | 0.0400 J | 0.0400 J |
| Cadmium | µg/L | 0.0200 J | 0.0500 U | 0.200 U | 0.0100 J |
| Calcium | mg/L | 74.7 | 80.2 | 36.7 | 35.6 |
| Chloride | mg/L | 28.5 | 28.9 | 14.6 | 16.5 |
| Chromium | µg/L | 0.0700 J | 0.100 J | 0.200 J | 0.215 |
| Cobalt | µg/L | 1.78 | 1.60 | 0.200 U | 0.0960 |
| Combined Radium | pCi/L | 0.467 | 0.584 | 0.357 | 0.243 |
| Fluoride | mg/L | 0.200 | 0.240 | 0.590 | 0.630 |
| Lead | µg/L | 0.100 J | 0.0600 J | 0.500 U | 0.100 J |
| Lithium | mg/L | 0.0200 J | 0.00469 | 0.0300 U | 0.00127 |
| Mercury | mg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Molybdenum | µg/L | 2.00 J | 2.03 | 10.0 U | 1.00 J |
| Selenium | µg/L | 0.0700 J | 0.200 U | 2.40 | 1.30 |
| Total Dissolved Solids | mg/L | 376 | 384 | 284 | 284 |
| Sulfate | mg/L | 44.7 | 43.6 | 22.3 | 19.2 |
| Thallium | µg/L | 0.500 U | 0.500 U | 2.00 U | 0.500 U |
| pH | SU | 7.31 | 7.07 | 7.23 | 6.74 |

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U: Parameter was not present in concentrations above the method detection limit and is reported as the reporting limit

J: Estimated value. Parameter was detected in concentrations below the reporting limit

Table 2: Groundwater Protection Standards - September 2019
Rockport Plant - Bottom Ash Pond

| Constituent Name | MCL | CCR Rule-Specified (EPA Regional Screening Level) | Calculated UTL | GWPS |
|--------------------------------|-------|---|----------------|-------|
| Antimony, Total (mg/L) | 0.006 | | 0.00050 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.056 | 0.056 |
| Barium, Total (mg/L) | 2 | | 0.997 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0005 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.00028 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0016 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.0033 | 0.006 |
| Combined Radium, Total (pCi/L) | 5 | | 2.5 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.7 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.0011 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.038 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.000005 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.0087 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.0038 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.0020 | 0.002 |

Notes:

MCL = Maximum Contaminant Level

GWPS = Groundwater Protection Standard

Calculated UTL (Upper Tolerance Limit) represents site-specific background values.

UTLs were revised in December 2019 using data through September 2019.

Table 3: Revised Prediction Limits - December 2019
Rockport - Bottom Ash Pond

| Parameter | Unit | Description | MW-1002 | MW-1602D | MW-1602I | MW-1603D | MW-1603I | MW-1603S | MW-1604D | MW-1604I |
|------------------------|------|----------------------------------|---------|----------|----------|----------|----------|----------|----------|----------|
| Boron | mg/L | Interwell Background Value (UPL) | 0.135 | | | | | | | |
| Calcium | mg/L | Intrawell Background Value (UPL) | 78.3 | 79.7 | 87.8 | 96.7 | 104 | 96.2 | 76.1 | 84.4 |
| Chloride | mg/L | Interwell Background Value (UPL) | 46.4 | | | | | | | |
| Fluoride | mg/L | Interwell Background Value (UPL) | 0.700 | | | | | | | |
| pH | SU | Intrawell Background Value (UPL) | 7.8 | 8.2 | 7.8 | 7.4 | 7.8 | 7.6 | 7.4 | 7.8 |
| | | Intrawell Background Value (LPL) | 6.1 | 6.7 | 6.8 | 6.8 | 6.8 | 6.4 | 7.0 | 7.1 |
| Sulfate | mg/L | Interwell Background Value (UPL) | 76.0 | | | | | | | |
| Total Dissolved Solids | mg/L | Interwell Background Value (UPL) | 465 | | | | | | | |

| Parameter | Unit | Description | MW-1604S | MW-1605D | MW-1605I | MW-1605S | MW-1606D | MW-1606I | MW-1606S | |
|------------------------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|--|
| Boron | mg/L | Interwell Background Value (UPL) | 0.135 | | | | | | | |
| Calcium | mg/L | Intrawell Background Value (UPL) | 108 | 95.3 | 104 | 88.6 | 81.4 | 86.3 | 68.1 | |
| Chloride | mg/L | Interwell Background Value (UPL) | 46.4 | | | | | | | |
| Fluoride | mg/L | Interwell Background Value (UPL) | 0.700 | | | | | | | |
| pH | SU | Intrawell Background Value (UPL) | 7.9 | 7.4 | 7.6 | 7.7 | 8.4 | 8.3 | 7.8 | |
| | | Intrawell Background Value (LPL) | 7.1 | 6.9 | 6.9 | 7.1 | 6.9 | 6.4 | 6.3 | |
| Sulfate | mg/L | Interwell Background Value (UPL) | 76.0 | | | | | | | |
| Total Dissolved Solids | mg/L | Interwell Background Value (UPL) | 465 | | | | | | | |

Notes:

UPL: Upper prediction limit

LPL: Lower prediction limit

Bold values exceed the background value.

Background values are shaded gray.

Revised prediction limits were calculated using data available through May 2019.

**Table 4: Appendix III Data Summary
Rockport Plant - Bottom Ash Pond**

| Parameter | Unit | Description | MW-1002 | | MW-1602D | | MW-1602I | | MW-1603D | | MW-1603I | | MW-1603S | | MW-1604D | | MW-1604I | |
|------------------------|------|----------------------------------|-------------|-------------|-------------|-------------|-----------|-----------|------------|-----------|------------|-----------|-------------|-------------|-----------|-----------|--------------|--------------|
| | | | 6/27/2019 | 9/12/2019 | 6/27/2019 | 9/12/2019 | 6/27/2019 | 9/12/2019 | 6/27/2019 | 9/11/2019 | 6/27/2019 | 9/11/2019 | 6/27/2019 | 9/11/2019 | 6/26/2019 | 9/10/2019 | 6/27/2019 | 9/11/2019 |
| Boron | mg/L | Interwell Background Value (UPL) | 0.135 | | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 1.82 | 1.78 | 0.0600 | 0.0590 | 0.0600 | 0.0510 | 0.0600 | 0.0400 | 0.0700 | 0.0870 | 1.65 | 2.16 | 0.0300 | 0.0200 | 0.278 | 0.269 |
| Calcium | mg/L | Intrawell Background Value (UPL) | 78.3 | | 79.7 | | 87.8 | | 96.7 | | 104 | | 96.2 | | 76.1 | | 84.4 | |
| | | Detection Monitoring Result | 36.0 | 33.5 | 69.8 | 57.8 | 76.2 | 83.1 | 77.9 | 82.8 | 78.6 | 80.1 | 67.2 | 55.1 | 69.5 | 74.7 | 75.2 | 71.5 |
| Chloride | mg/L | Interwell Background Value (UPL) | 46.4 | | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 57.1 | 54.7 | 68.7 | 65.1 | 29.2 | 28.7 | 25.0 | 26.1 | 37.7 | 38.7 | 57.8 | 51.1 | 15.8 | 15.9 | 63.5 | 43.6 |
| Fluoride | mg/L | Interwell Background Value (UPL) | 0.700 | | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 1.10 | 1.03 | 0.330 | 0.280 | 0.300 | 0.300 | 0.300 | 0.300 | 0.470 | 0.460 | 0.590 | 0.690 | 0.280 | 0.280 | 0.380 | 0.350 |
| pH | SU | Intrawell Background Value (UPL) | 7.8 | | 8.2 | | 7.8 | | 7.4 | | 7.8 | | 7.6 | | 7.4 | | 7.8 | |
| | | Intrawell Background Value (LPL) | 6.1 | | 6.7 | | 6.8 | | 6.8 | | 6.8 | | 6.4 | | 7.0 | | 7.1 | |
| | | Detection Monitoring Result | 7.1 | 6.7 | 7.3 | 7.1 | 7.3 | 7.3 | 7.6 | 7.2 | 8.1 | 7.3 | 7.3 | 7.1 | 7.3 | 7.3 | 7.5 | 7.4 |
| Sulfate | mg/L | Interwell Background Value (UPL) | 76.0 | | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 173 | 178 | 20.3 | 20.2 | 67.4 | 70.7 | 32.8 | 36.4 | 66.9 | 58.2 | 205 | 224 | 23.2 | 24.7 | 167 | 127 |
| Total Dissolved Solids | mg/L | Interwell Background Value (UPL) | 465 | | | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 425 | 418 | 429 | 440 | 405 | 404 | 388 | 407 | 560 | 443 | 530 | 482 | 326 | 326 | 622 | 515 |

| Parameter | Unit | Description | MW-1604S | | MW-1605D | | MW-1605I | | MW-1605S | | MW-1606D | | MW-1606I | | MW-1606S | |
|------------------------|------|----------------------------------|--------------|--------------|-----------|-----------|------------|--------------|--------------|--------------|-----------|-----------|-------------|-----------|-----------|-----------|
| | | | 6/26/2019 | 9/10/2019 | 6/25/2019 | 9/12/2019 | 6/25/2019 | 9/12/2019 | 6/27/2019 | 9/12/2019 | 6/24/2019 | 9/12/2019 | 6/25/2019 | 9/12/2019 | 6/25/2019 | 9/12/2019 |
| Boron | mg/L | Interwell Background Value (UPL) | 0.135 | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 0.667 | 0.802 | 0.0200 | 0.0200 | 0.126 | 0.199 | 0.438 | 0.431 | 0.0200 | 0.0200 | 0.0200 | 0.0200 | 0.0300 | 0.0200 |
| Calcium | mg/L | Intrawell Background Value (UPL) | 108 | | 95.3 | | 104 | | 88.6 | | 81.4 | | 86.3 | | 68.1 | |
| | | Detection Monitoring Result | 75.8 | 53.1 | 82.1 | 84.0 | 83.4 | 89.4 | 72.0 | 77.0 | 80.8 | 76.7 | 86.8 | 72.8 | 49.8 | 44.4 |
| Chloride | mg/L | Interwell Background Value (UPL) | 46.4 | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 81.4 | 57.6 | 22.1 | 23.7 | 38.3 | 41.7 | 46.3 | 49.4 | 25.2 | 26.9 | 31.5 | 20.1 | 25.0 | 24.4 |
| Fluoride | mg/L | Interwell Background Value (UPL) | 0.700 | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 0.910 | 1.63 | 0.210 | 0.220 | 0.210 | 0.200 | 0.630 | 0.540 | 0.190 | 0.180 | 0.180 | 0.180 | 0.450 | 0.540 |
| pH | SU | Intrawell Background Value (UPL) | 7.9 | | 7.4 | | 7.6 | | 7.7 | | 8.4 | | 8.3 | | 7.8 | |
| | | Intrawell Background Value (LPL) | 7.1 | | 6.9 | | 6.9 | | 7.1 | | 6.9 | | 6.4 | | 6.3 | |
| | | Detection Monitoring Result | 7.5 | 7.5 | 7.3 | 7.0 | 7.4 | 7.4 | 7.2 | 7.0 | 7.3 | 7.3 | 7.2 | 7.4 | 7.0 | 7.0 |
| Sulfate | mg/L | Interwell Background Value (UPL) | 76.0 | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 246 | 134 | 40.3 | 45.1 | 104 | 128 | 150 | 162 | 21.0 | 25.6 | 51.0 | 47.9 | 41.7 | 41.9 |
| Total Dissolved Solids | mg/L | Interwell Background Value (UPL) | 465 | | | | | | | | | | | | | |
| | | Detection Monitoring Result | 718 | 506 | 379 | 388 | 471 | 524 | 595 | 593 | 329 | 361 | 406 | 367 | 380 | 376 |

Notes:

UPL: Upper prediction limit

LPL: Lower prediction limit

Bold values exceed the background value.

Background values are shaded gray.

ATTACHMENT A
Certification by Qualified Professional Engineer

Certification by Qualified Professional Engineer

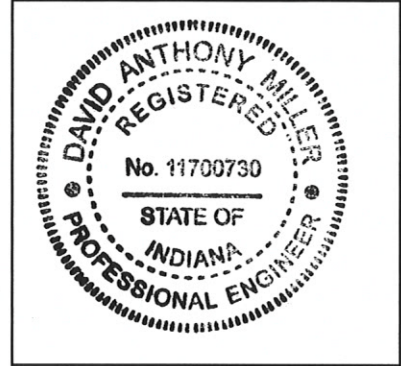
I certify that the selected and above described statistical method is appropriate for evaluating the groundwater monitoring data for the Rockport Bottom Ash Pond CCR management area and that the requirements of 40 CFR 257.93(f) have been met.

DAVID ANTHONY MILLER

Printed Name of Licensed Professional Engineer

David Anthony Miller

Signature



11700730

License Number

INDIANA

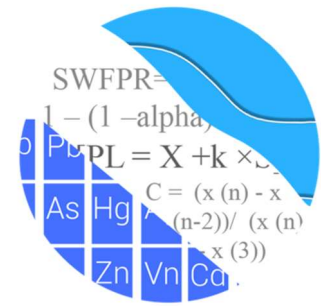
Licensing State

01.03.20

Date

ATTACHMENT B
Statistical Analysis Output

GROUNDWATER STATS CONSULTING



December 16, 2019

Geosyntec Consultants
Attn: Ms. Allison Kreinberg
941 Chatham Lane, #103
Columbus, OH 43221

Re: Rockport Bottom Ash Pond
Background Update 2019

Dear Ms. Kreinberg,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide background update of groundwater data for American Electric Power Inc.'s Rockport Bottom Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

Sampling began at the site for the CCR program in 2016. The monitoring well network, as provided by Geosyntec Consultants, consists of the following:

- **Upgradient wells:** MW-1600D, MW-1600I, MW-1600S, MW-1601D, MW-1601I, MW-1601S; MW-1701S, MW-1702D, MW-1702I, MW-1702S, MW-1701D, and MW-1701I
- **Downgradient wells:** MW-1002, MW-1602D, MW-1602I, MW-1603D, MW-1603I, MW-1603S, MW-1604D, MW-1604I, MW-1604S, MW-1605D, MW-1605I, MW-1605S, MW-1606D, MW-1606I, and MW-1606S

Data were sent electronically and the statistical analysis was reviewed by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to GSC. The statistical analysis was conducted according to the January 2018 screening evaluation prepared by GSC and approved by Dr. Kirk Cameron.

The CCR program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS;
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium.

Time series and box plots for Appendix III and IV parameters are provided for all wells and constituents; and are used to evaluate concentrations over the entire record (Figures A and B). The initial background screening was conducted on all wells during January 2018, except for the 1700 series wells which were added to the monitoring well network and approved for use as background wells during 2018. A summary of those findings is provided below. During this analysis, the background data sets for the Appendix III parameters were evaluated for the purpose of updating the prediction limits.

Data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were submitted with the initial background screening and demonstrated that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

Summary of Statistical Method:

- 1) Intrawell prediction limits, combined with a 1-of-3 resample plan for calcium and pH;
- 2) Interwell prediction limits combined with a 1-of-2 resample plan for boron, chloride, fluoride, sulfate, and TDS.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Historical Summary – Evaluation of Appendix III Parameters – January 2018

Outlier Evaluation

Tukey's box plot method was used during the screening evaluations to identify outliers which were flagged in the database and deselected prior to construction of statistical limits. Suspected outliers at all wells for Appendix III parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

No seasonal patterns were apparent on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used during the background screening to evaluate all Appendix III data at each well to identify statistically significant increasing or decreasing trends. The results of those findings were submitted with the previous screening evaluation. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different

than current reported concentrations and will be deselected as necessary.

When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. All of the trends identified during the screening were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to the data sets.

Statistical Limits

Interwell prediction limits were constructed using all screened upgradient well data, combined with a 1-of-2 verification strategy for boron, chloride, fluoride, sulfate and TDS. Intrawell limits combined with a 1-of-3 verification strategy were constructed using screened background data through July 2017 for calcium and pH. The statistical method selected for each parameter was determined based on the results of the evaluation performed in January 2018; and all proposed background data were screened for outliers and trends at that time. The findings of those reports were submitted with that analysis. Note that the upgradient 1700 series wells did not yet have the recommended minimum 8 background samples and, therefore, intrawell prediction limits were not included for these wells.

Interwell prediction limits utilize all upgradient well data for construction of statistical limits. During each sample event, upgradient well data were screened for any newly suspected outliers or obvious trending patterns using time series plots. Intrawell prediction limits utilized the background data set that was originally screened in 2018. As recommended in the EPA Unified Guidance (2009), the set background data will be tested for the purpose of updating statistical limits using the Mann-Whitney two-sample test when an additional four to eight measurements are available.

Prediction limits were constructed based on the following:

- Number of Sample Events Per Year: 2
- Interwell Prediction Limits and 1-of-2 Resamples
- Intrawell Prediction Limits and 1-of-3 Resamples
- Number of Analytes: 7
- Number of Downgradient Wells: 15

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample, and the 1-of-3 resample plan allows up

to 2 resamples, to determine whether the initial exceedance is confirmed. When the resamples confirm the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered a false positive result and, therefore, no further action is necessary.

The Sen's Slope/Mann-Kendall trend test was performed on all well/constituent pairs found to exceed their respective prediction limit to determine whether concentrations are increasing, decreasing or stabilizing. Upgradient wells were included in the trend tests to determine whether similar patterns existed both upgradient and downgradient of the facility which would suggest naturally changing groundwater unrelated to practices at the facility. No statistically significant increasing trends were found in any of the wells. One statistically significant decreasing trend was noted for chloride in upgradient well MW-1601S.

Appendix III Background Update – December 2019

Prior to updating background data, samples were re-evaluated for all wells for intrawell parameters and all upgradient wells for interwell parameters using Tukey's outlier test and visual screening with the May 2019 samples (Figure C). Both high and low values were noted for pH in several wells. All of the single high values identified were flagged as outliers in the database. For the multiple outliers identified in wells MW-1606D and MW-1606I, only the lowest values were flagged as all other measurements were similar to remaining measurements within these wells. No outliers were flagged for pH at well 1606S for the same reason.

When Tukey's outlier test was used on pooled upgradient well data, in some cases, a cluster of data points were identified as outliers by the test. However, when neighboring upgradient wells have similar reported values for two or more events, these values are not flagged in the database as they represent natural variation in groundwater quality upgradient of the facility. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. An updated summary of Tukey's test results and flagged outliers follows this letter.

For constituents requiring intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through July 2017 to the new compliance samples at each well through May 2019 to evaluate whether the groups are statistically different at the 99% confidence level (Figure D). If no differences are

noted, background may be updated with compliance data. No significant differences were noted except for pH in downgradient well MW-1002. While the medians may be slightly different, the majority of the recent concentrations are very similar to historical measurements; therefore, the background was updated to include data through May 2019 for construction of prediction limits. A summary of these results follows this letter and the significant test results are included with the Mann Whitney test section at the end of this report.

Intrawell prediction limits using all historical data through May 2019, combined with a 1-of-3 resample plan, were constructed and a summary of the updated limits follows this letter (Figure E).

For parameters tested using interwell analyses, the Sen's Slope/Mann-Kendall trend test was used on upgradient wells to determine whether concentrations are statistically increasing, decreasing or stable (Figure F). No statistically significant increasing or decreasing trends were noted except for a decreasing trend for chloride in upgradient well MW-1601S and an increasing trend for fluoride in upgradient well MW-1600S. The magnitude of these trends was low relative to average concentrations in these wells; therefore, no adjustment was required at this time. A summary of those results is included with the trend tests that had significant results.

Interwell prediction limits, combined with a 1-of-2 resample plan, were updated using all available data from upgradient wells for the same time period for boron, chloride, fluoride, sulfate, and TDS (Figure G). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. A summary table of the updated limits may be found following this letter in the Prediction Limit Summary Tables.

Evaluation of Appendix IV Parameters – November 2018

Interwell Tolerance limits were used to calculate background limits from all available pooled upgradient well data for Appendix IV parameters to determine the Alternate Contaminant Level (ACL) for each constituent (Figure H). Background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits. Tukey's test identified several values that were flagged accordingly in the database. However, several values were not identified as outliers through Tukey's test, but because they are considerably higher than the other measurements and do not appear to represent the population at their respective well, these values were flagged as outliers and deselected prior to the construction of upper tolerance limits and confidence intervals (i.e. combined radium 226 + 228 in well MW-1606I; lead in wells

MW-1603D and MW-1604S; and selenium in well MW-1605S). Note that the reporting limit during the June 2019 event for molybdenum in many of the wells was 0.01 mg/L, which is higher than the historical reporting limit of 0.002 mg/L, as well as higher than all of the detected values for these wells. This reporting limit was flagged as an outlier.

While Tukey's outlier test on pooled upgradient wells identified several outliers, some values that were flagged in the database, but not identified by Tukey's, were a result of values which did not accurately represent the populations within their respective wells (i.e. antimony in well MW-1702I, lead in well MW-1701D, molybdenum in well MW-1702S, selenium in well MW-1605S, and thallium in wells MW-1701D, MW-1701I, MW-1701S, MW-1702D, MW-1702I, and MW-1702S). Any flagged values may be seen on the Outlier Summary following this letter.

Parametric limits use a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. These limits were compared to the Maximum Contaminant Levels (MCLs) and CCR-Rule specified levels in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons (Figure I).

Confidence intervals were then constructed on downgradient wells for each of the Appendix IV parameters using the highest limit of the MCL, CCR-Rule specified, or ACL as discussed above (Figure J). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. No confidence intervals exceedances were found for any of the downgradient wells. A summary of the confidence interval results follows this letter.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Rockport Bottom Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

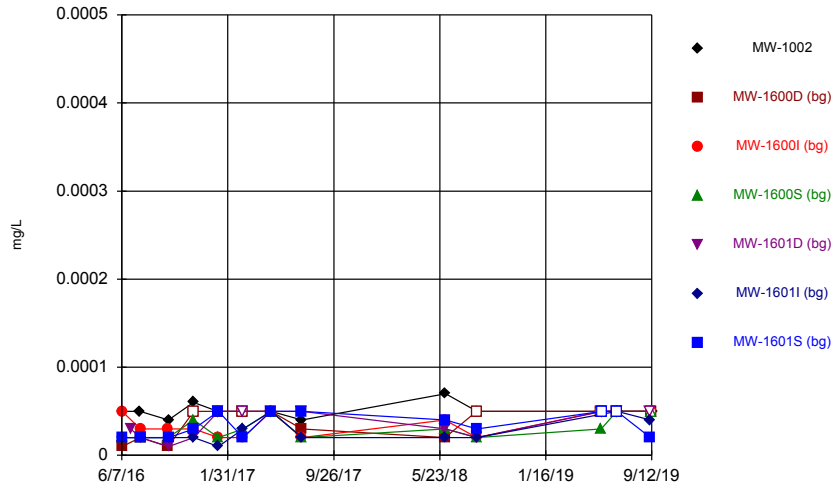


Andrew T. Collins
Groundwater Analyst



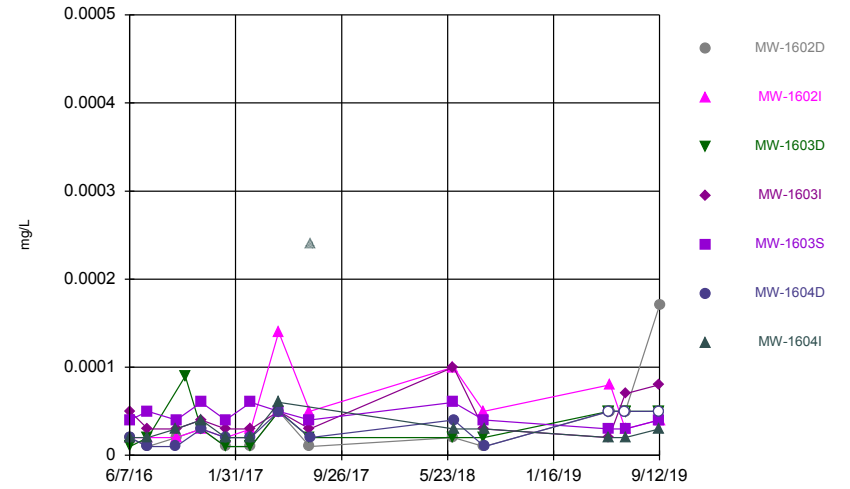
Kristina L. Rayner
Groundwater Statistician

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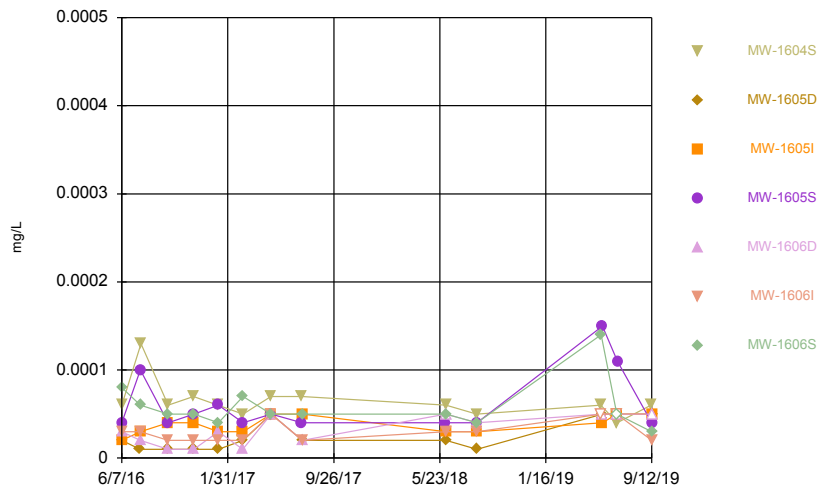
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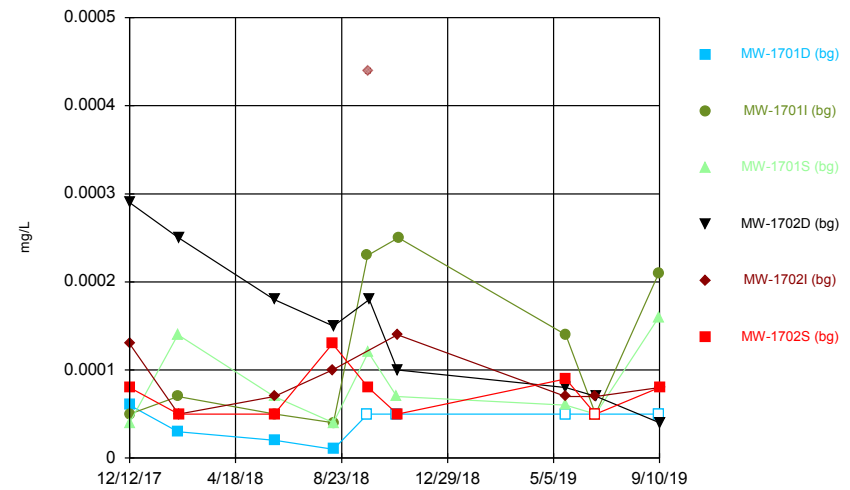
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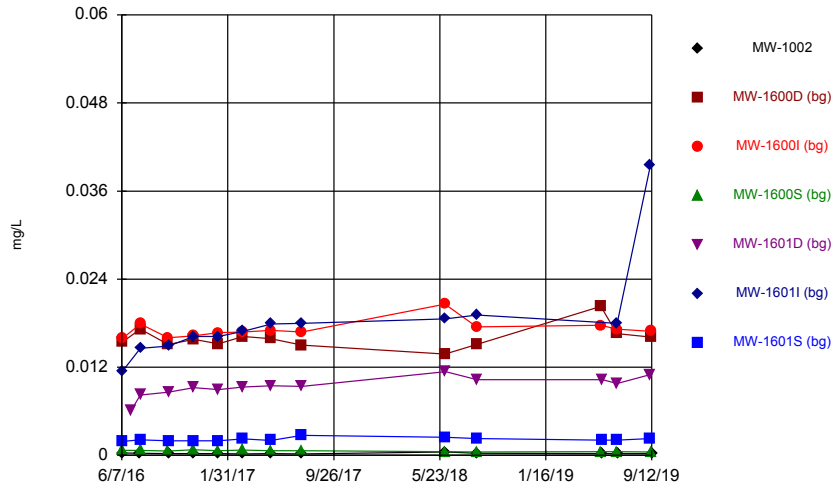
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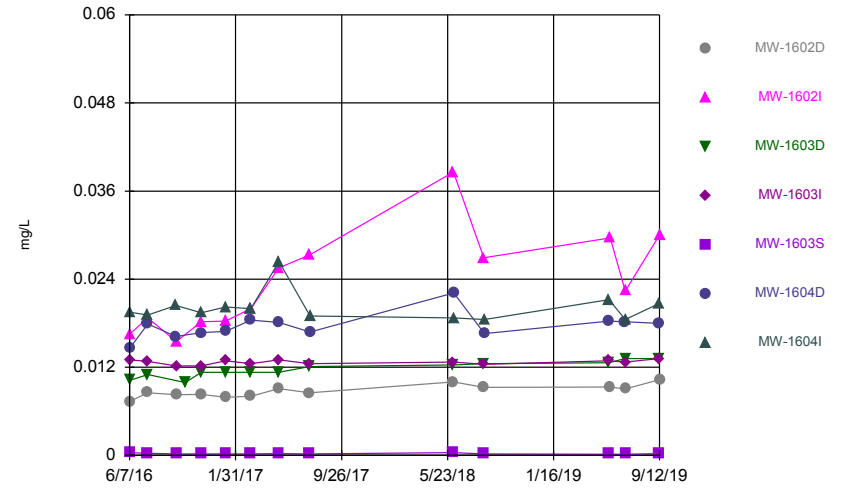
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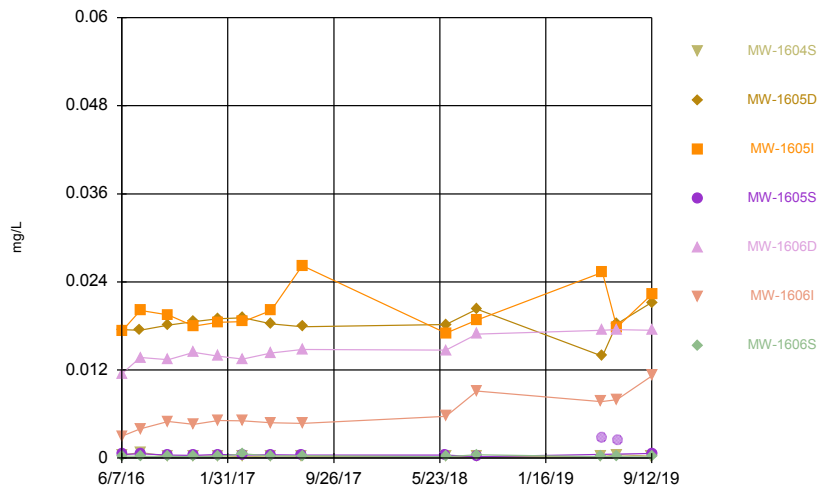
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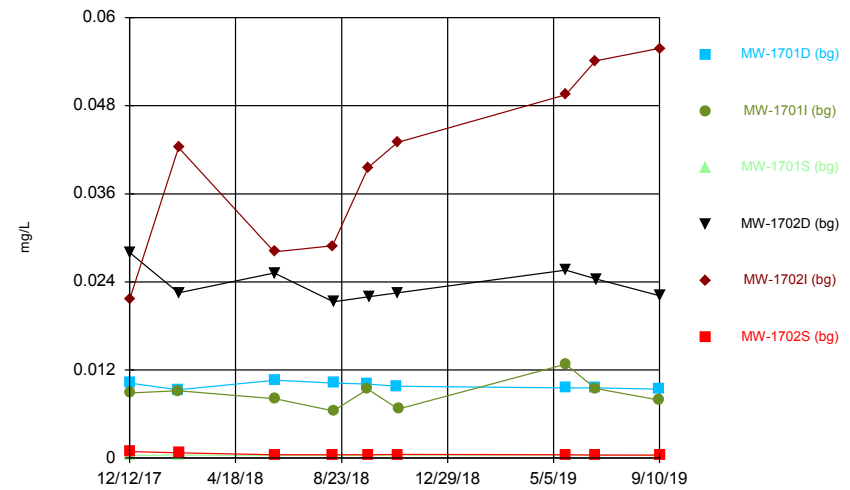
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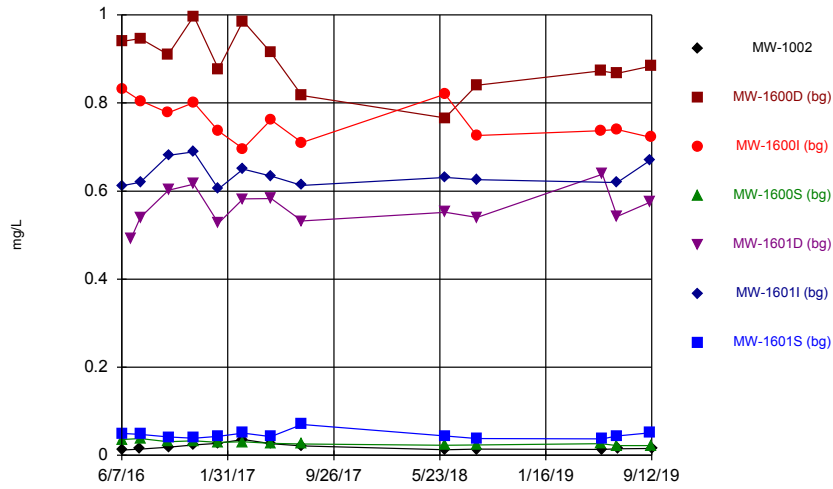
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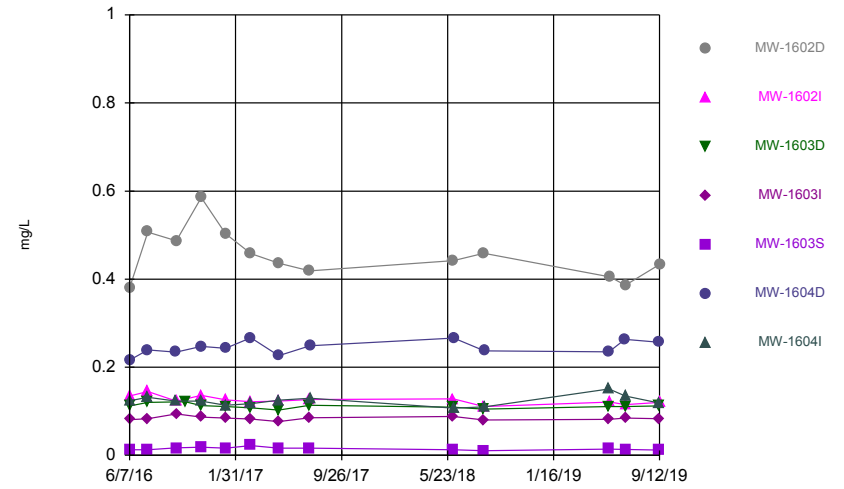
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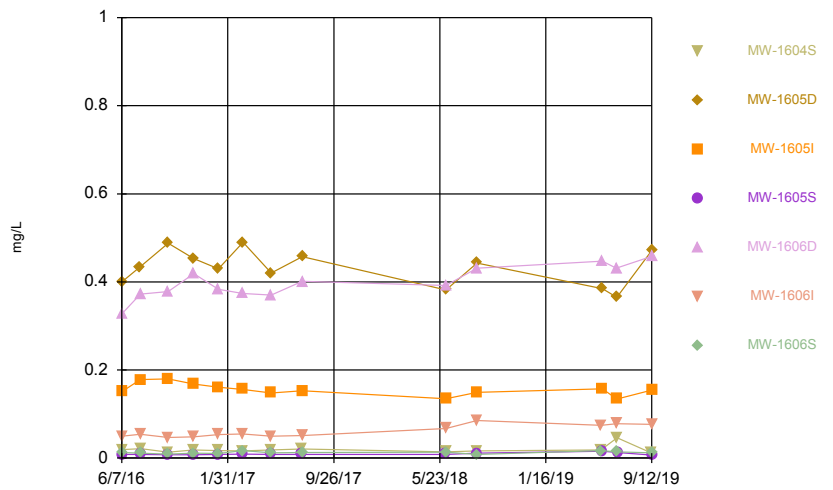
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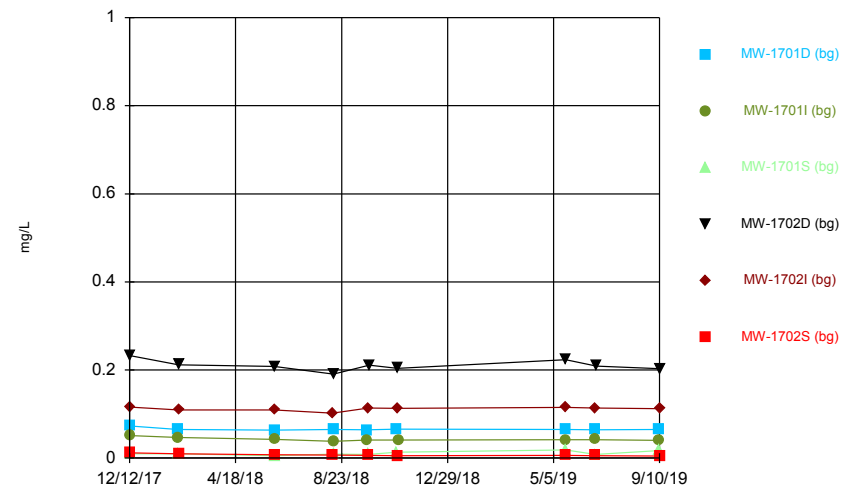
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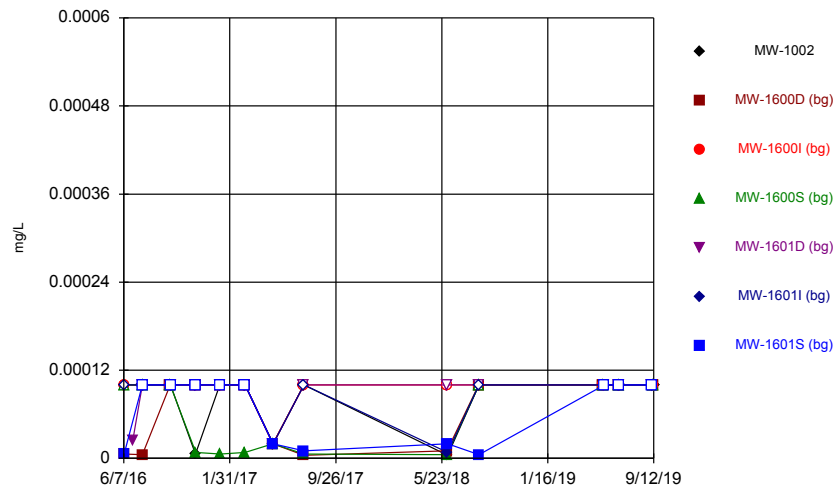
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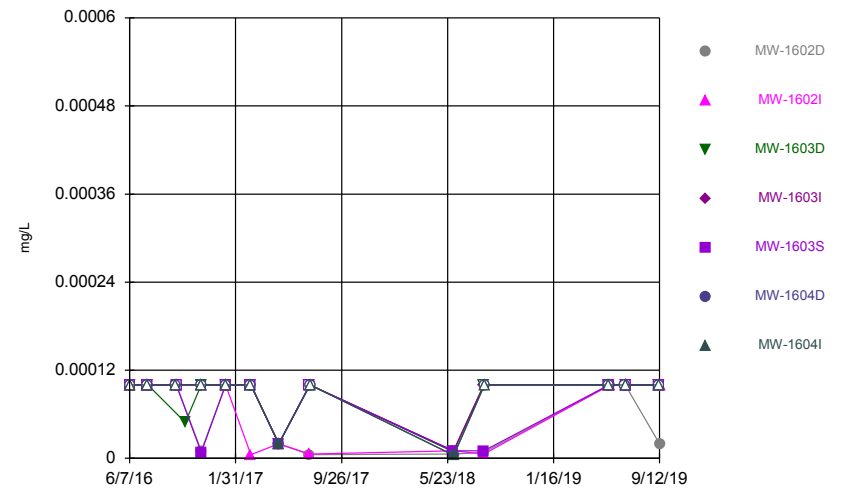
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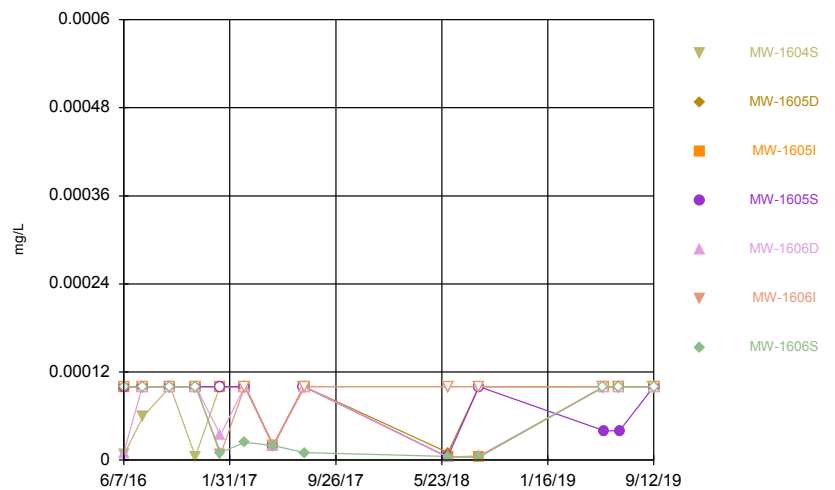
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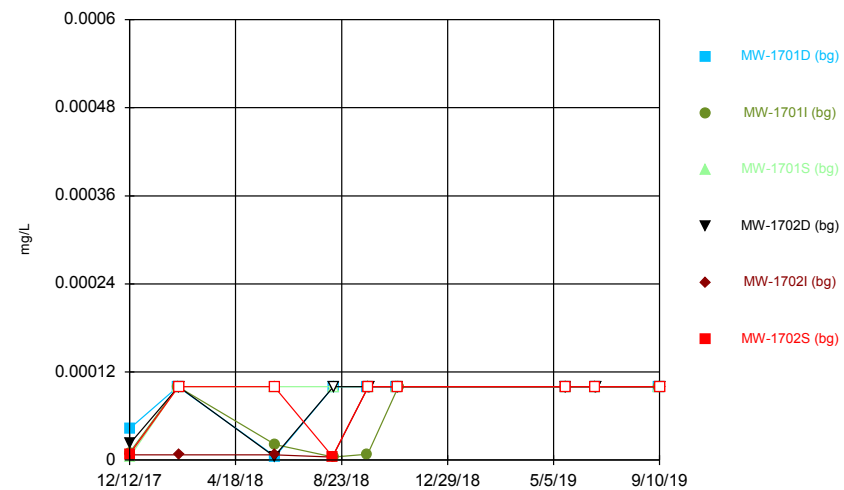
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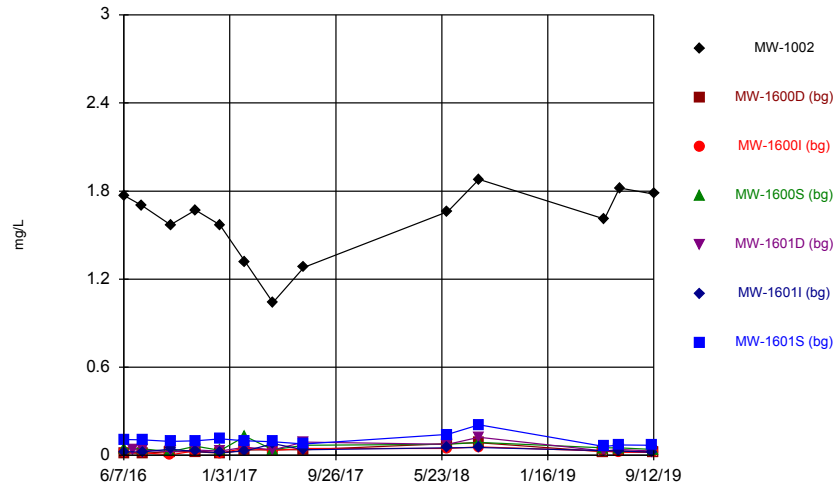
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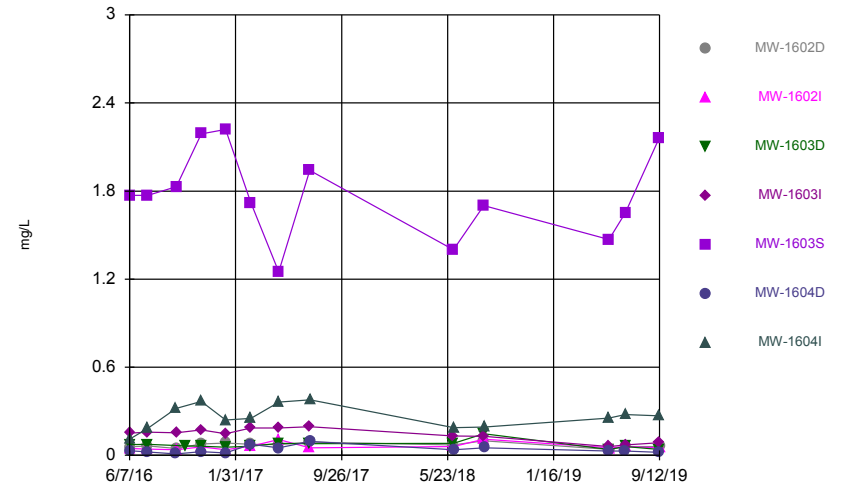
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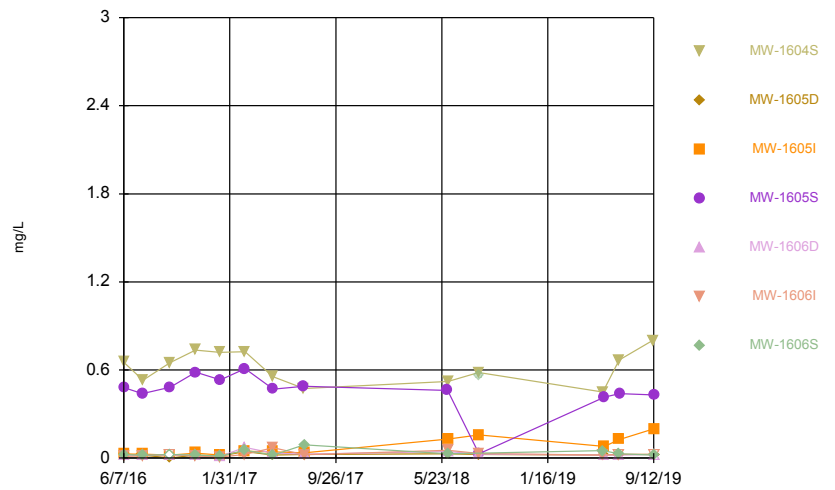
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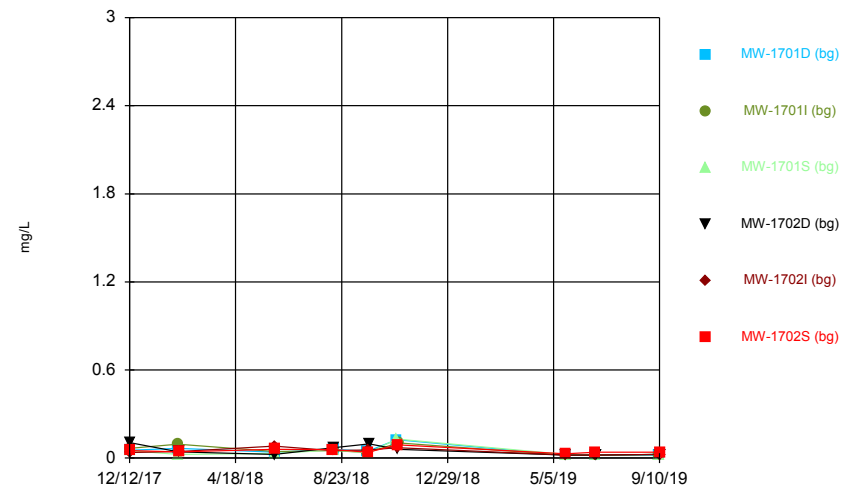
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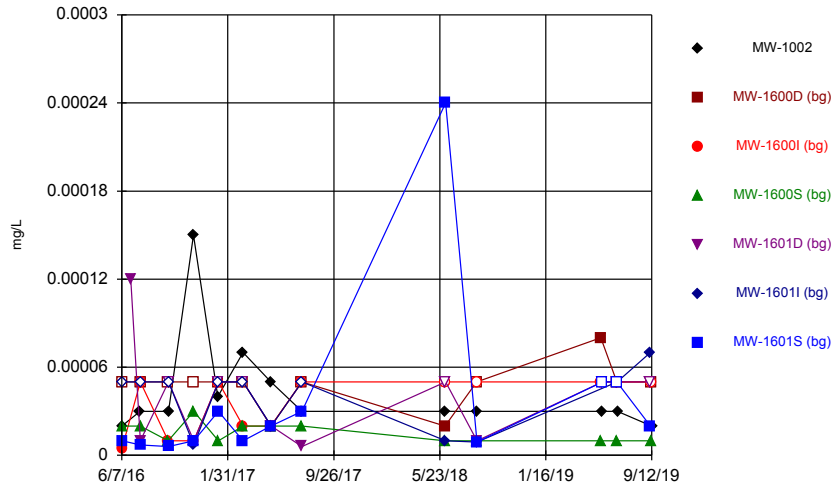
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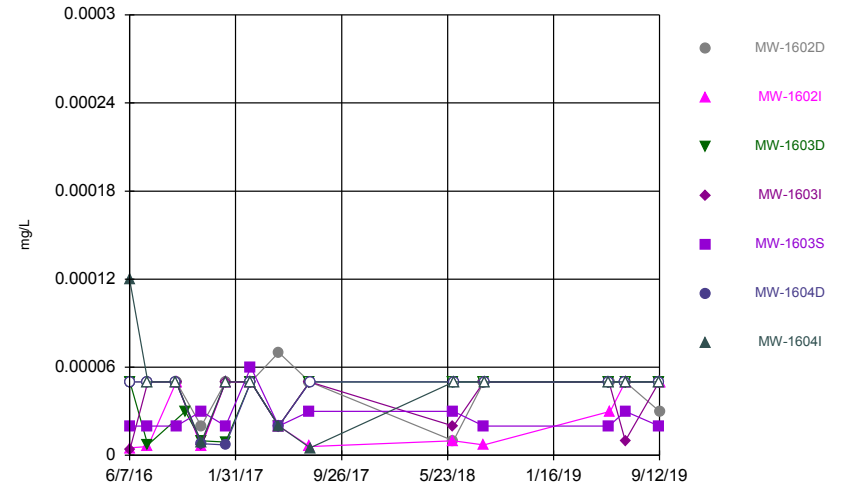
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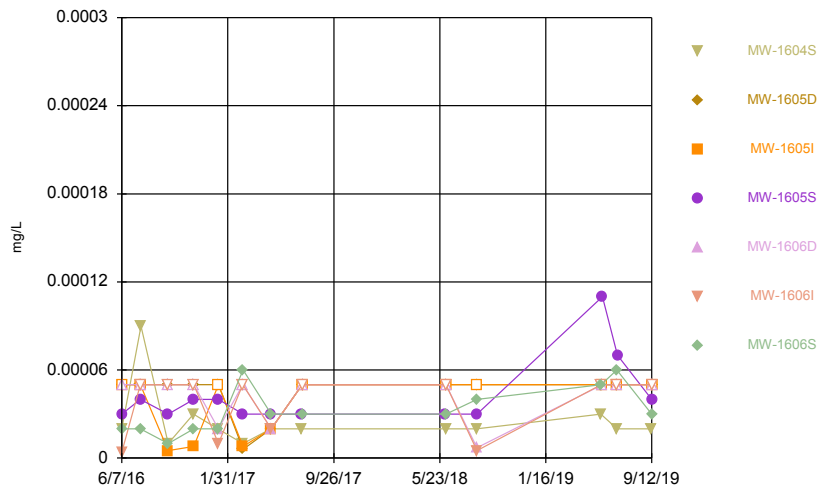
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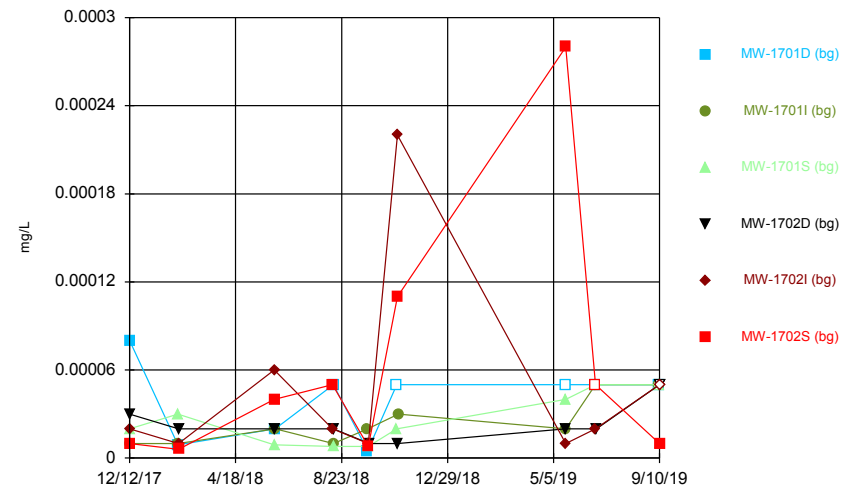
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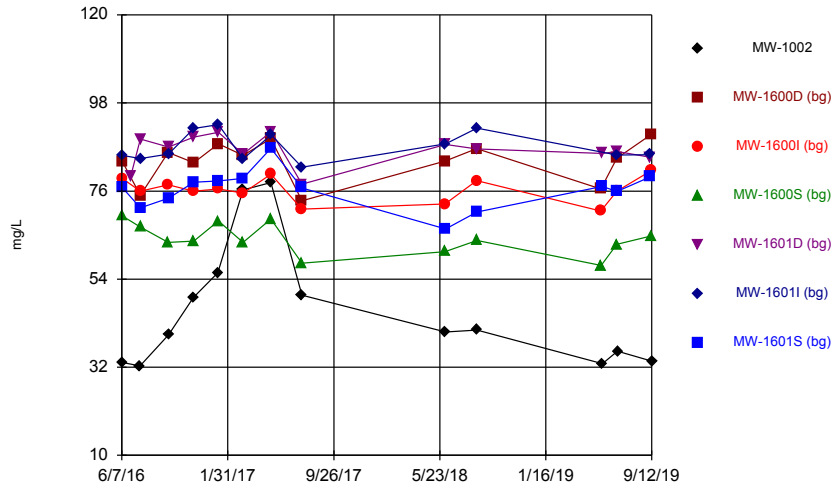
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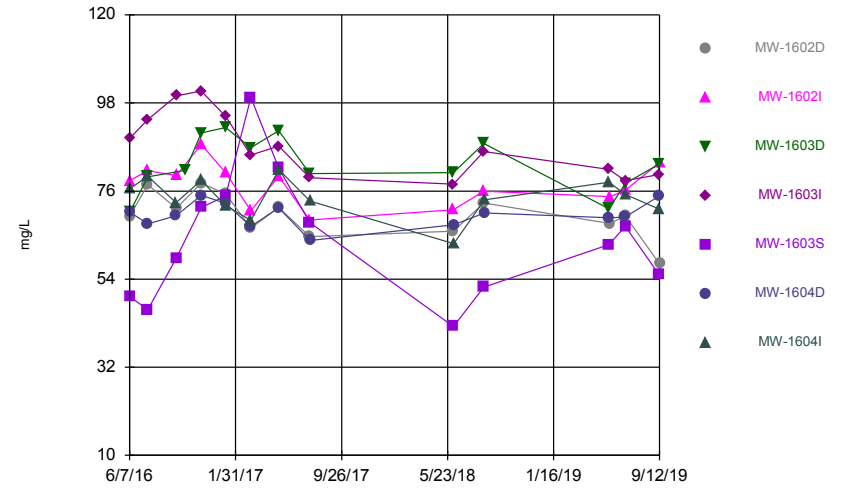
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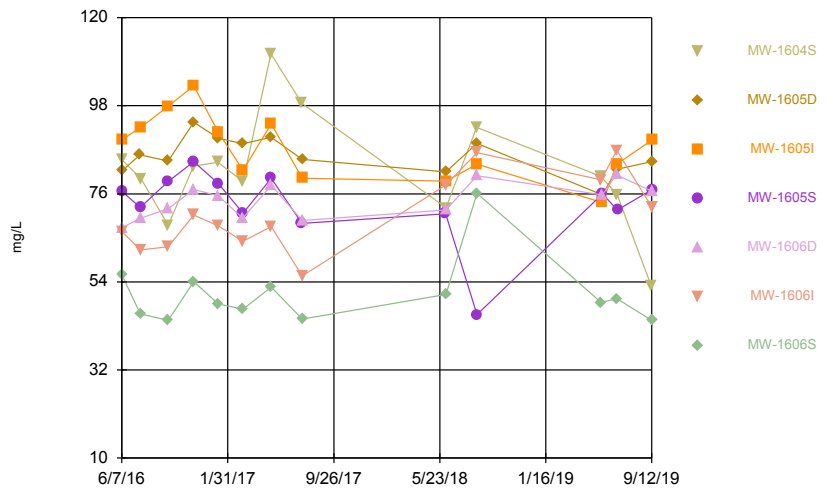
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Time Series



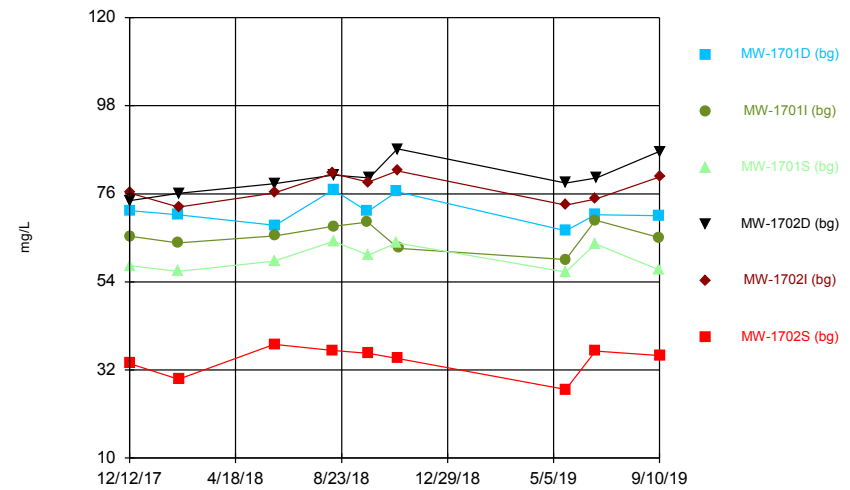
Constituent: Calcium, total Analysis Run 12/5/2019 11:20 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



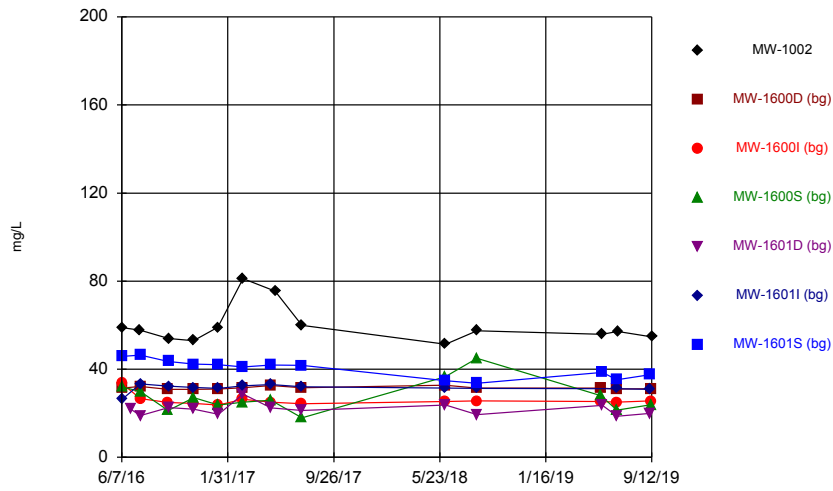
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



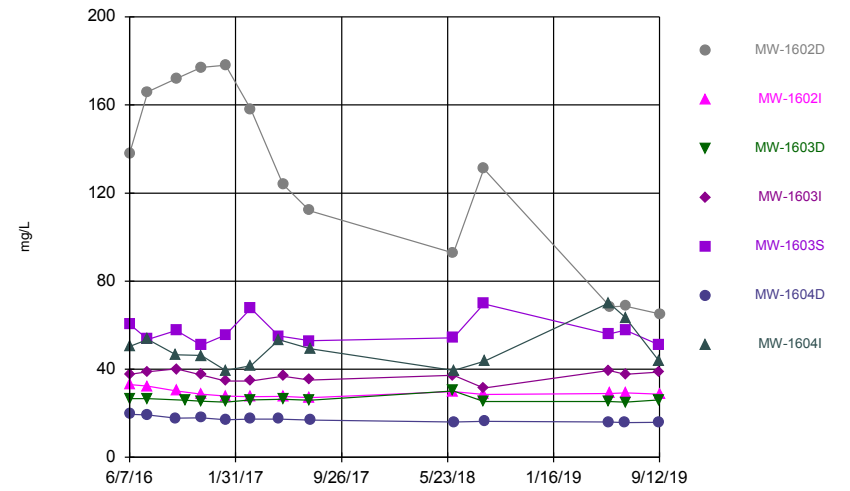
Constituent: Calcium, total Analysis Run 12/5/2019 11:20 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



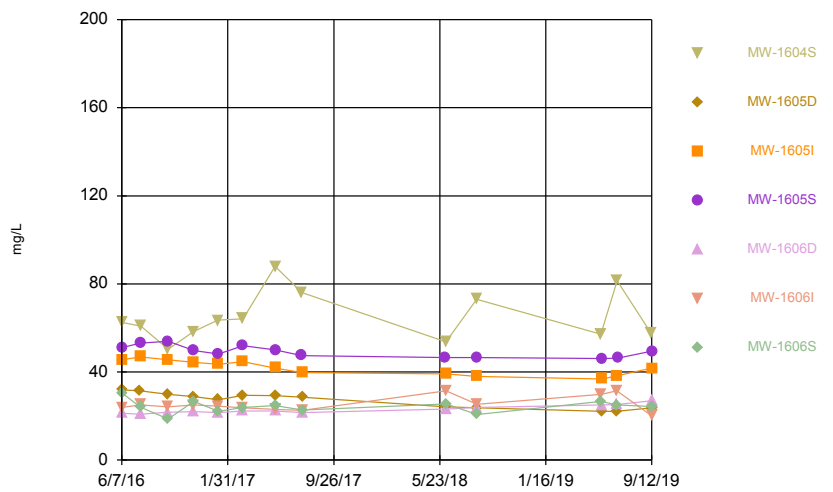
Constituent: Chloride, total Analysis Run 12/5/2019 11:20 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



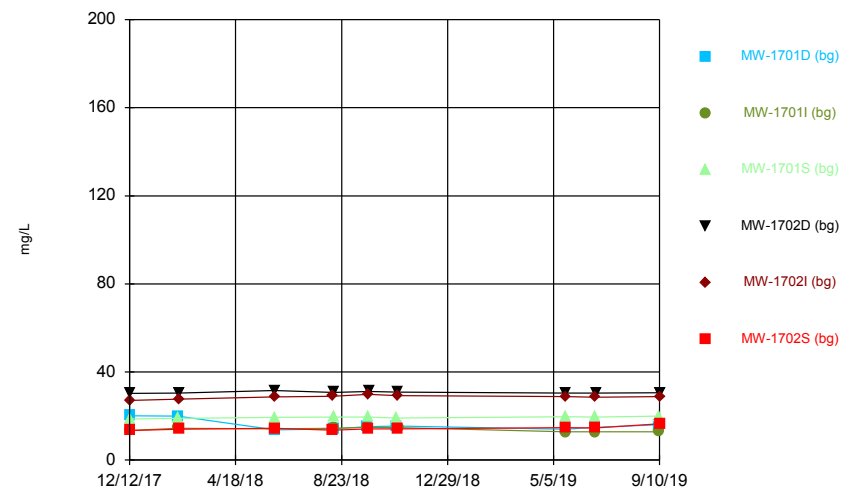
Constituent: Chloride, total Analysis Run 12/5/2019 11:20 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



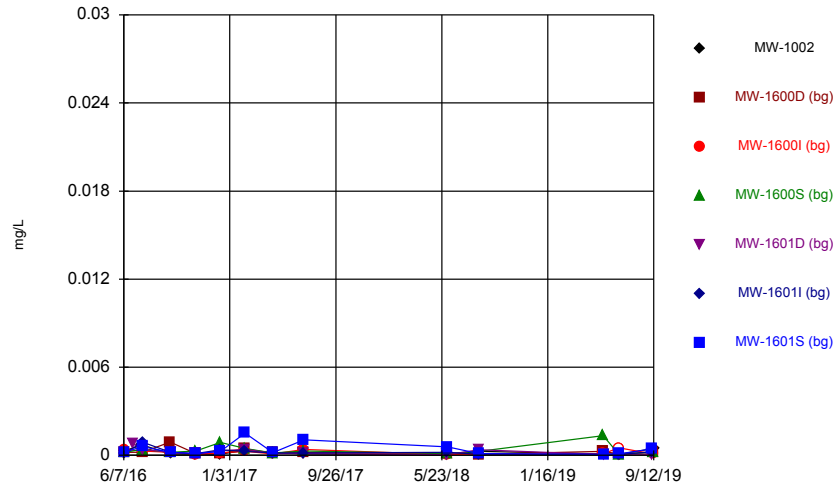
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



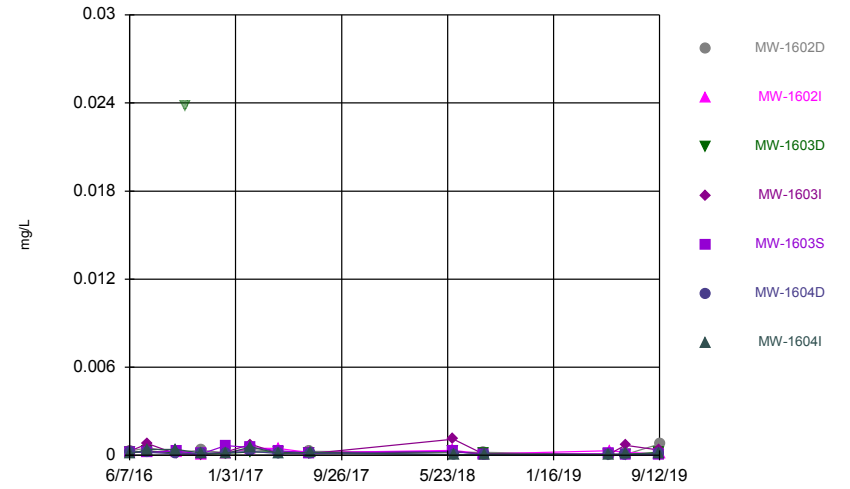
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



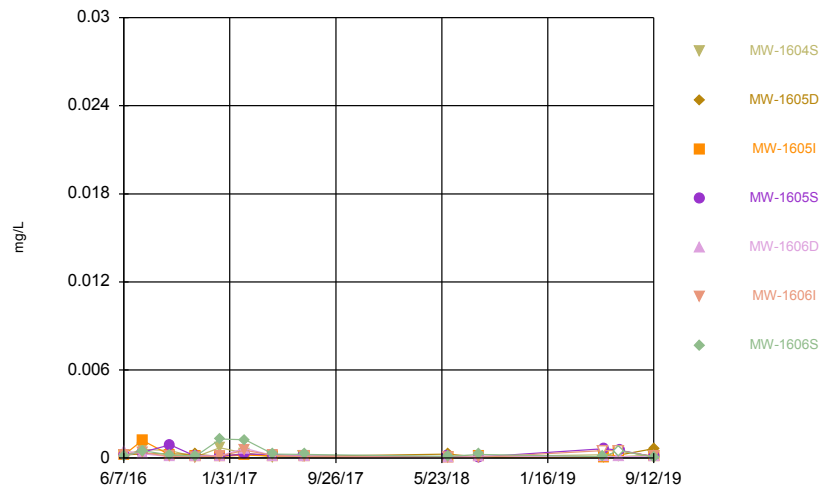
Constituent: Chromium, total Analysis Run 12/5/2019 11:20 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



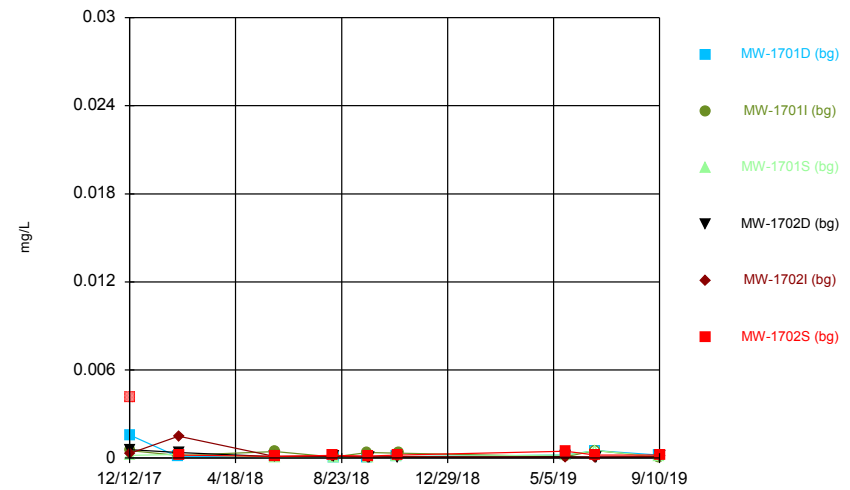
Constituent: Chromium, total Analysis Run 12/5/2019 11:20 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



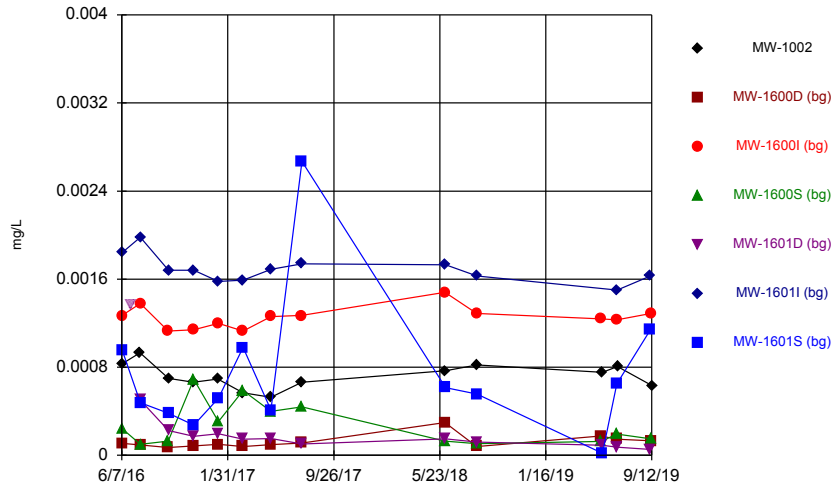
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



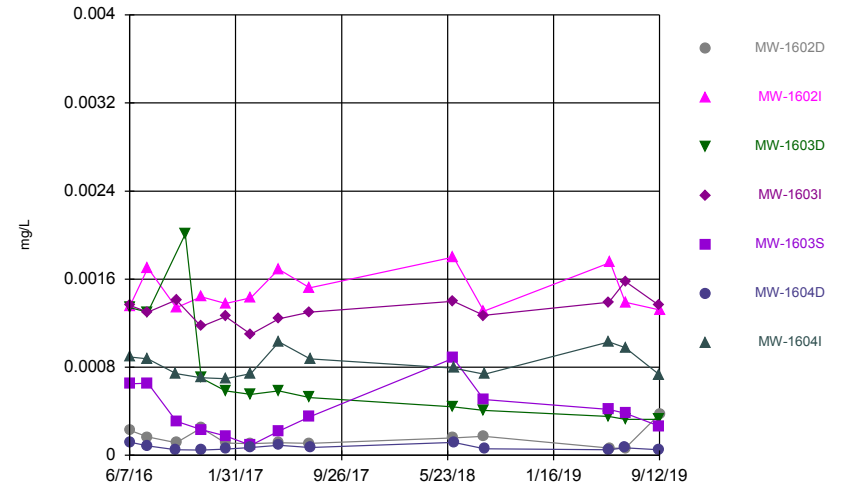
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



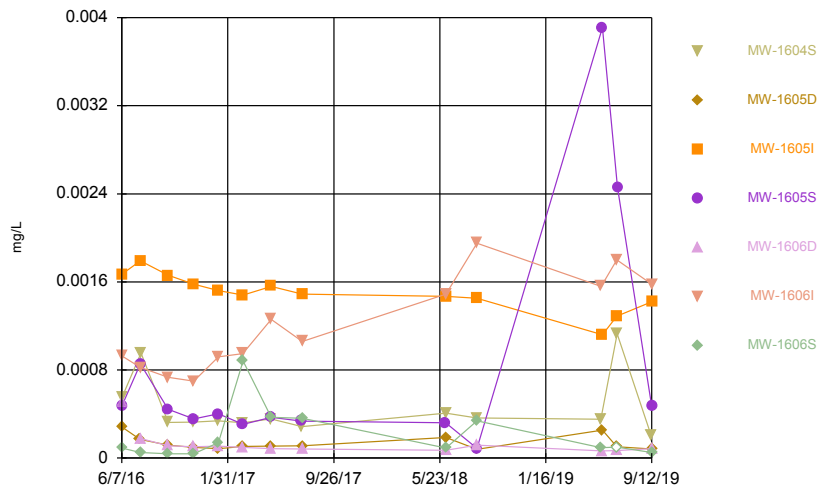
Constituent: Cobalt, total Analysis Run 12/5/2019 11:20 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



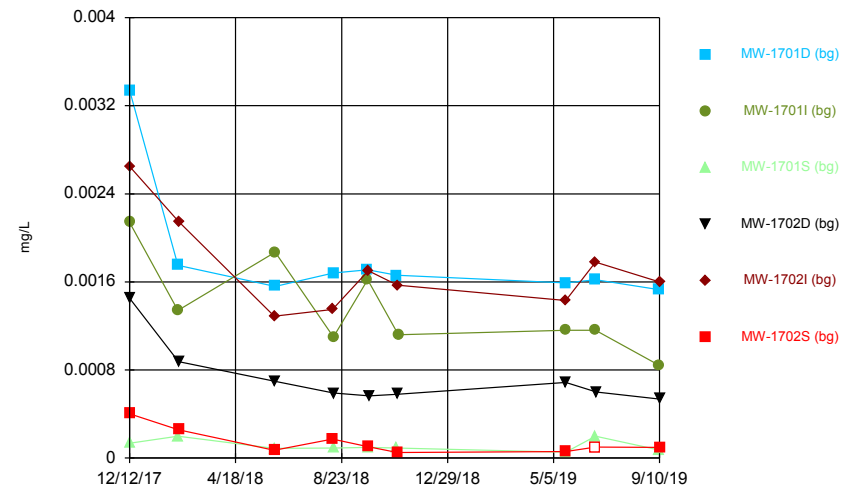
Constituent: Cobalt, total Analysis Run 12/5/2019 11:20 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



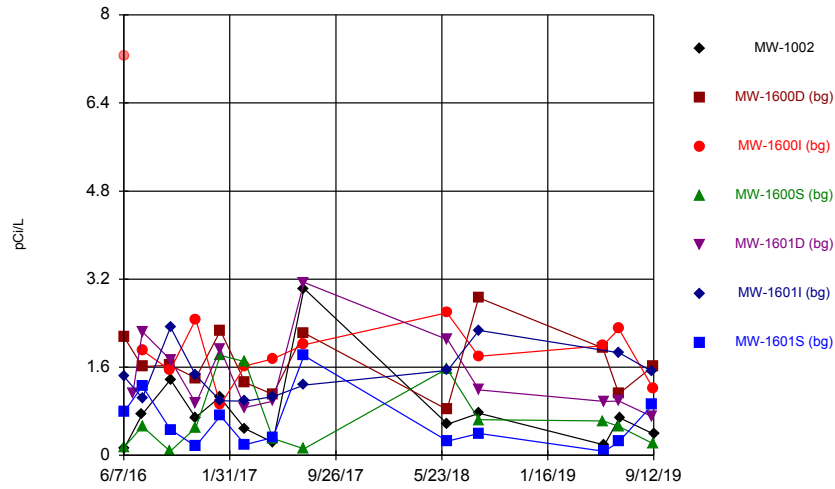
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



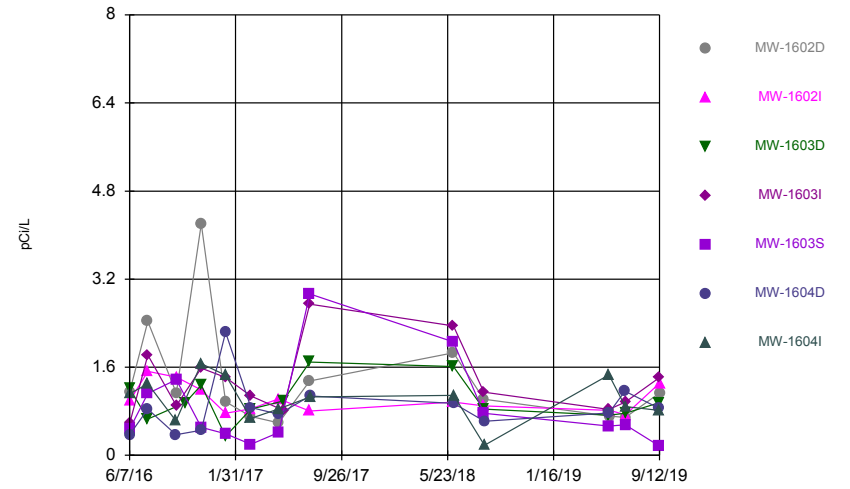
Constituent: Cobalt, total Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



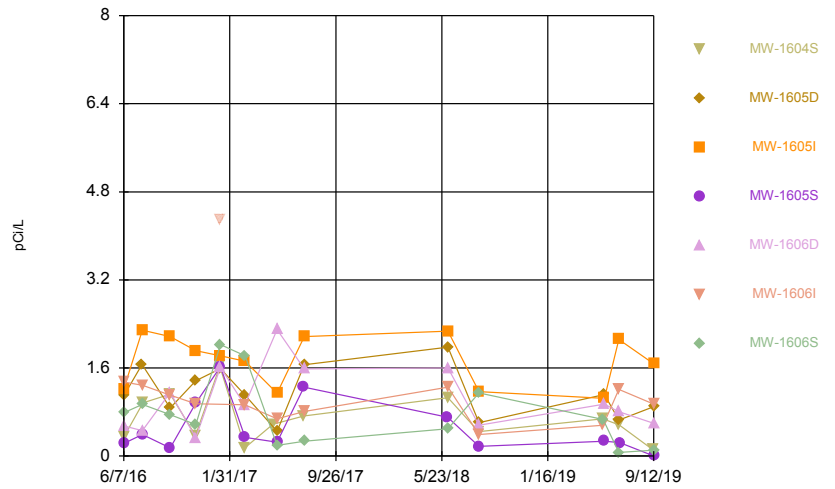
Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



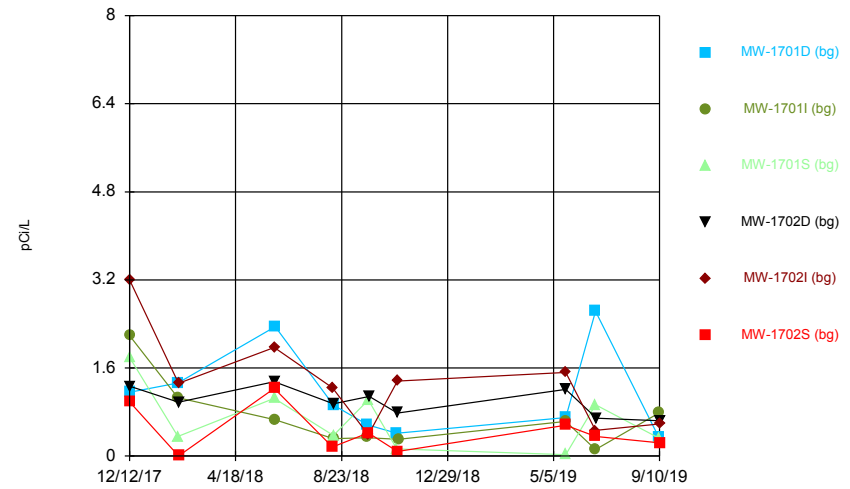
Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



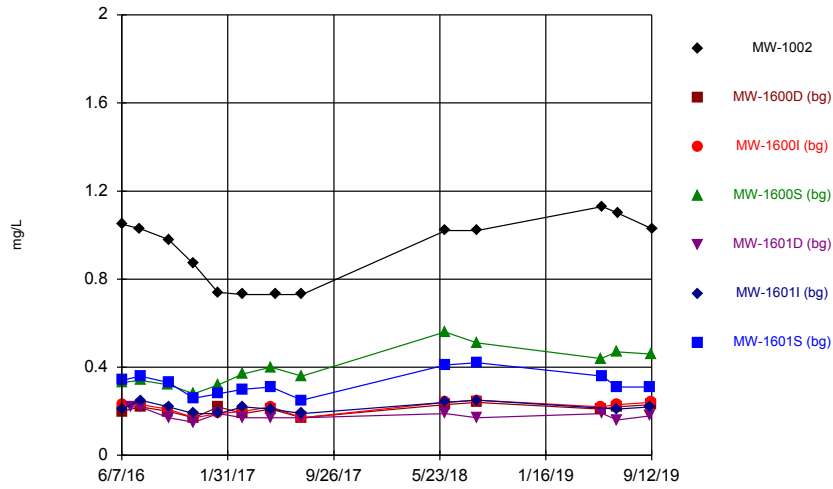
Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



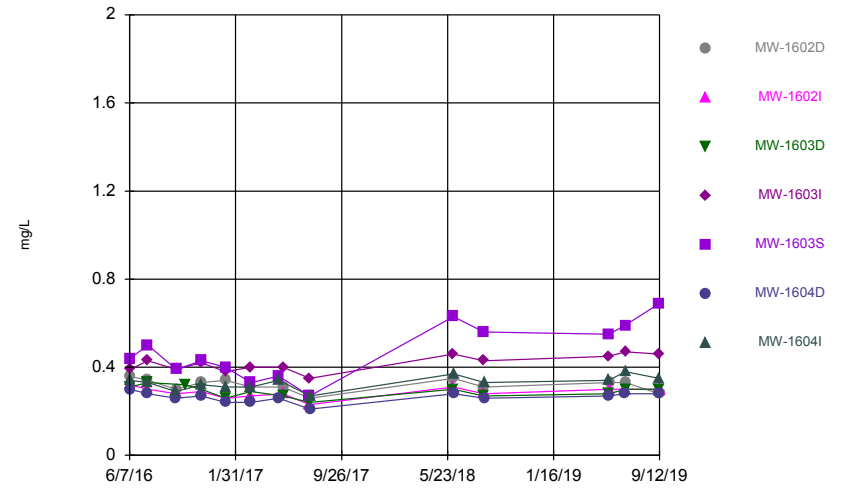
Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



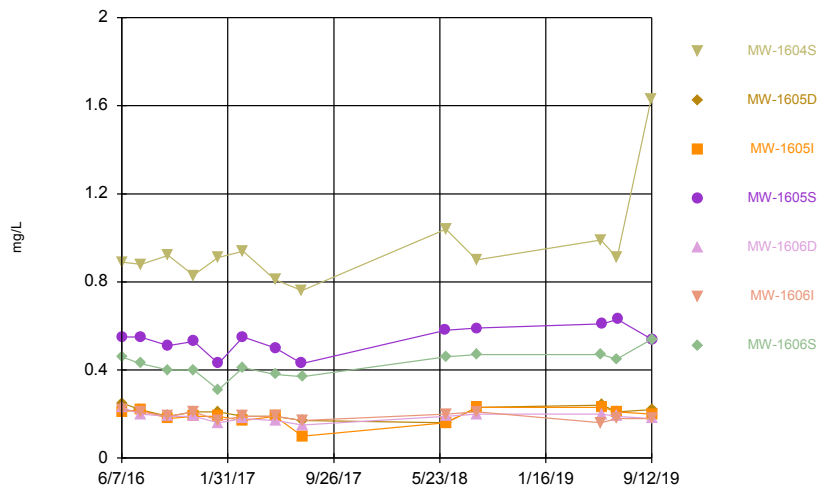
Constituent: Fluoride, total Analysis Run 12/5/2019 11:21 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



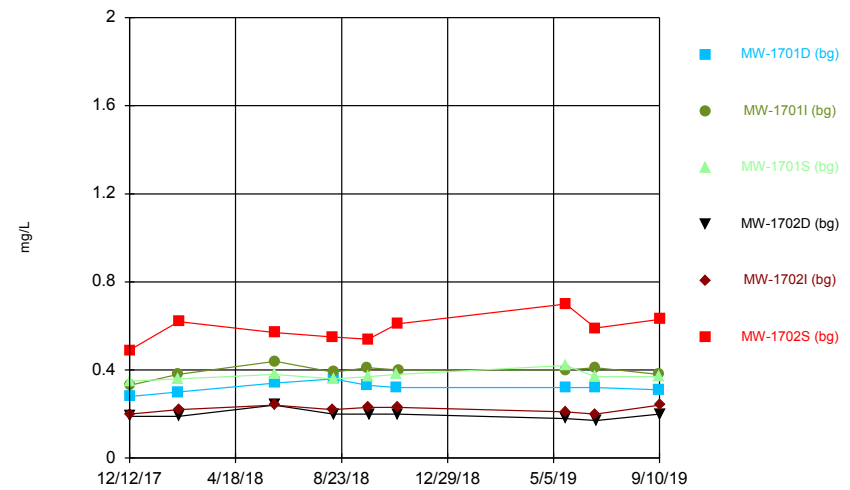
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



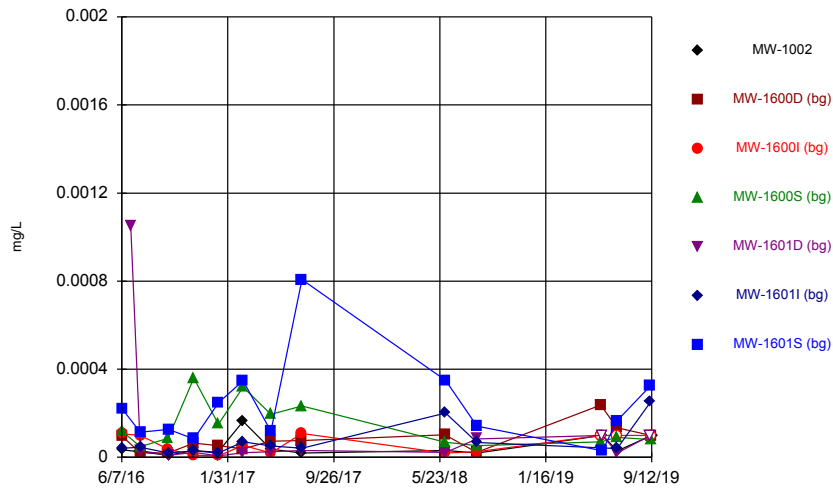
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



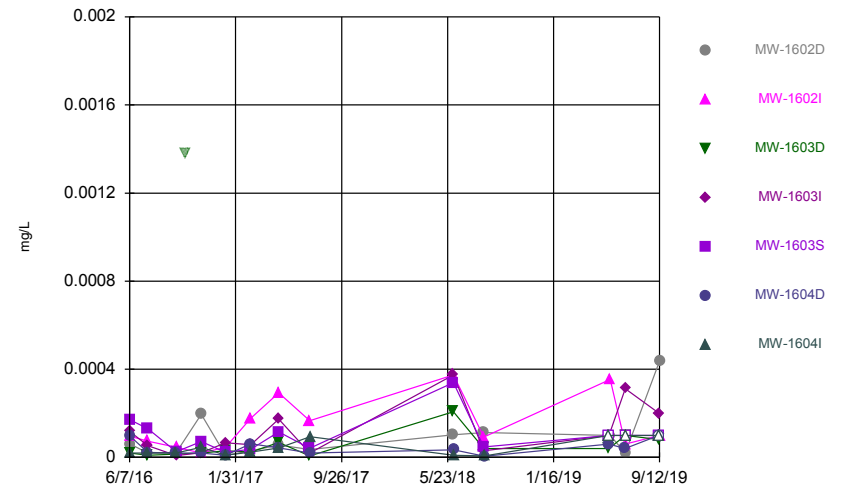
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



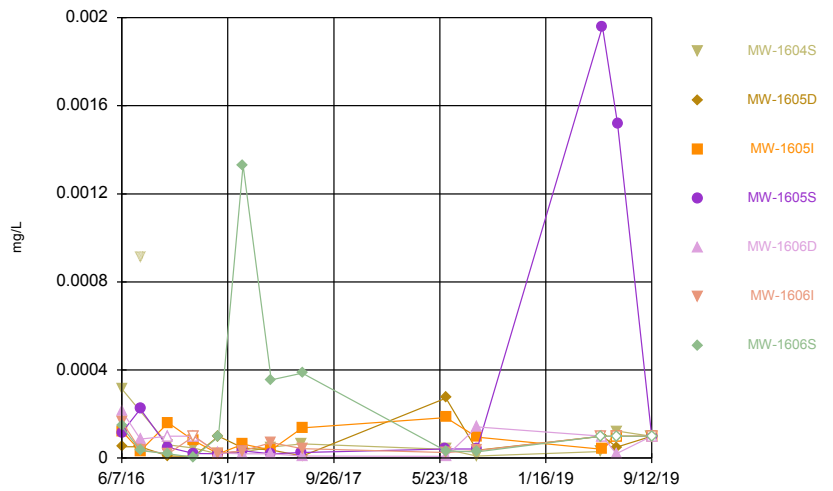
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



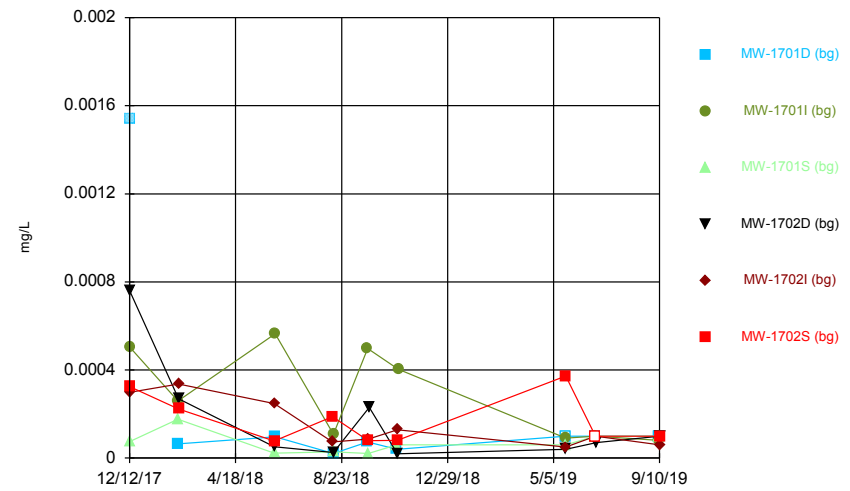
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



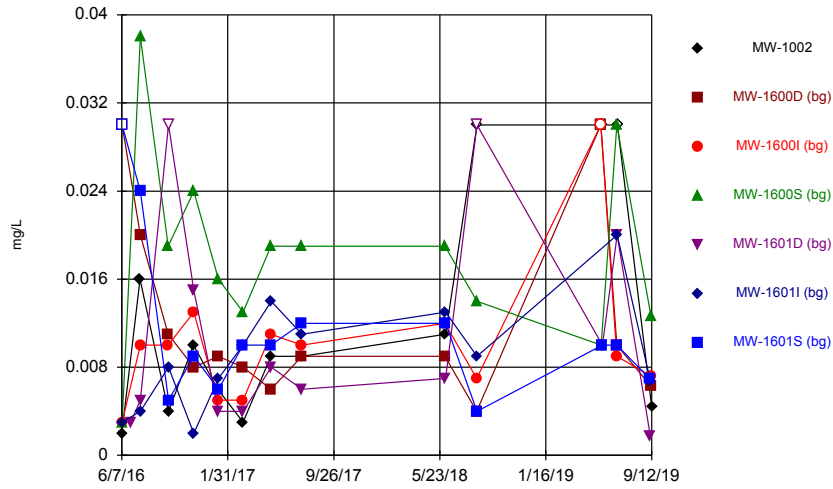
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Time Series



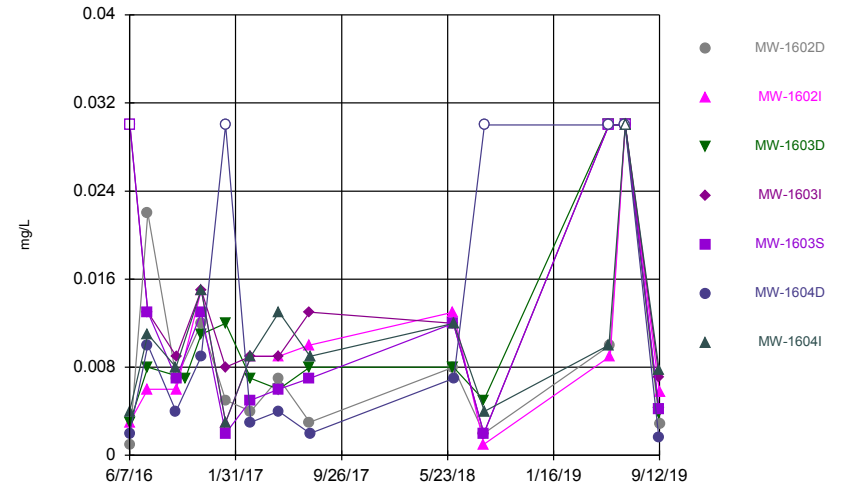
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



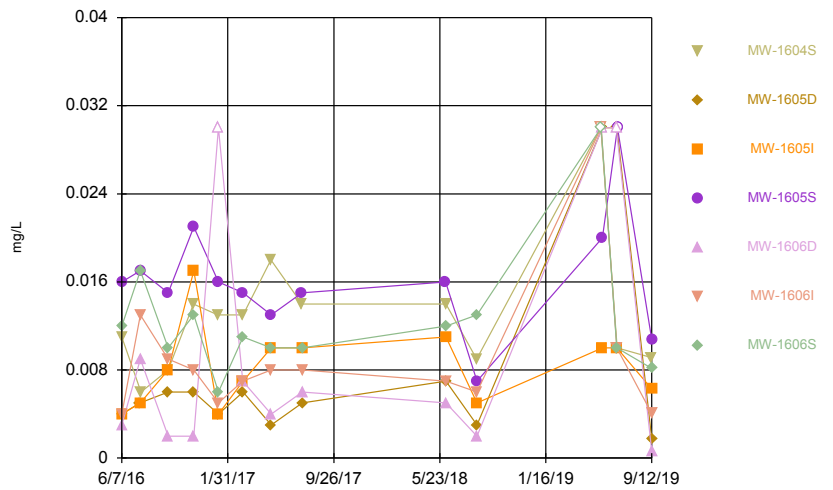
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



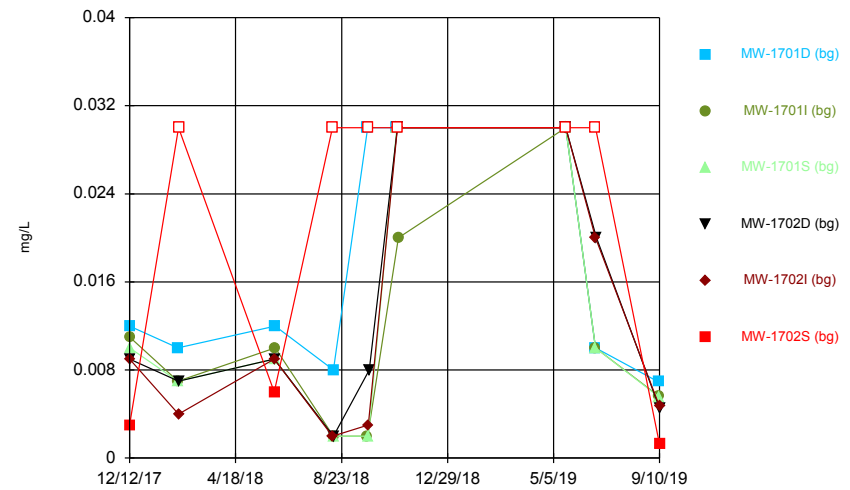
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



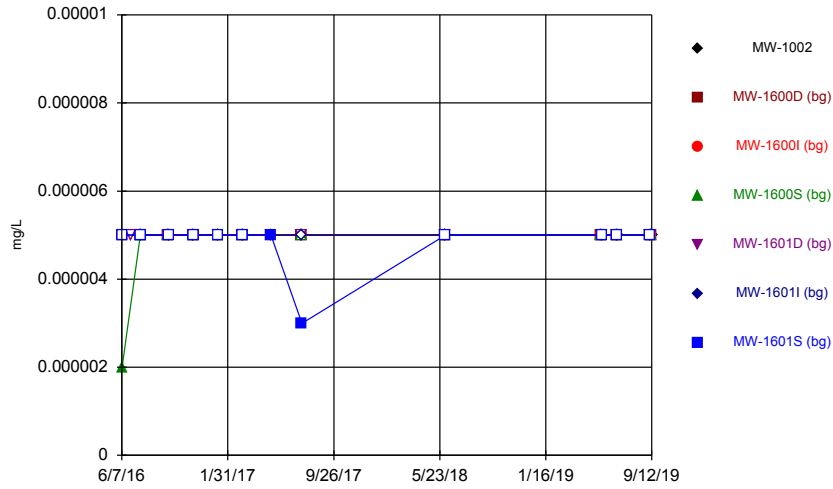
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Time Series



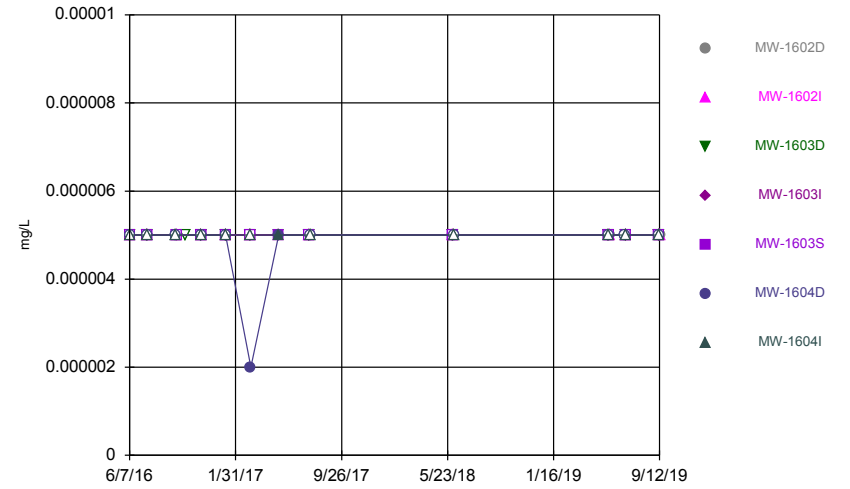
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Time Series



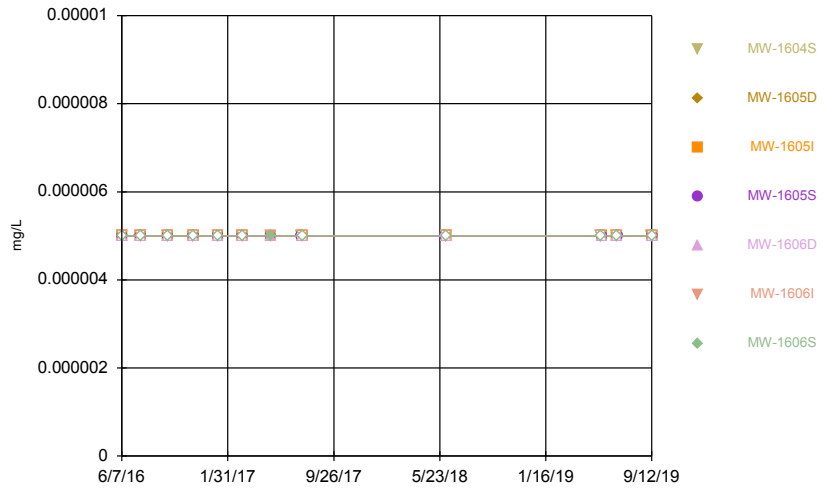
Constituent: Mercury, total Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



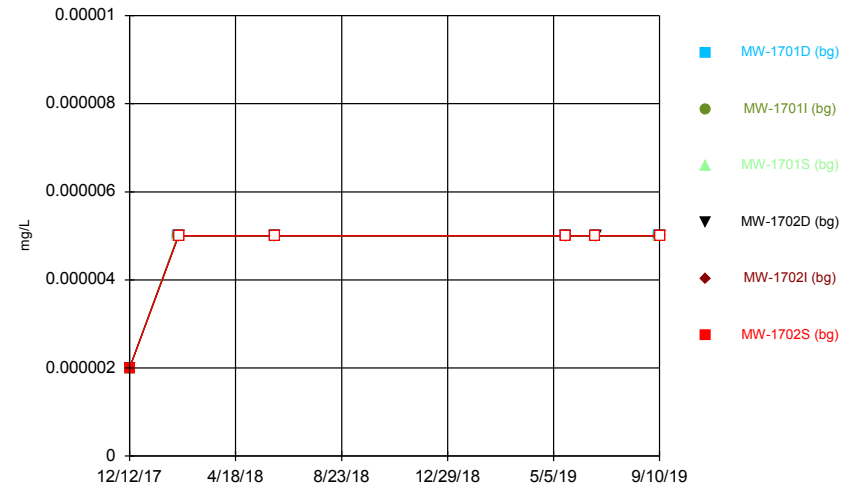
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



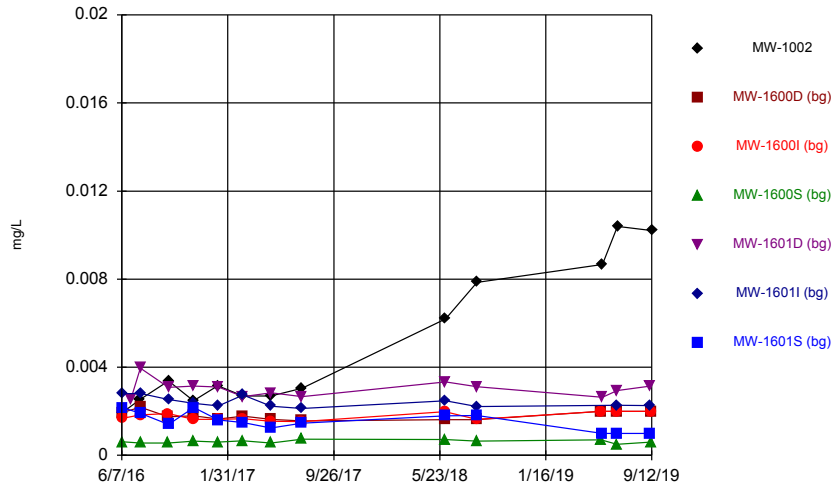
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



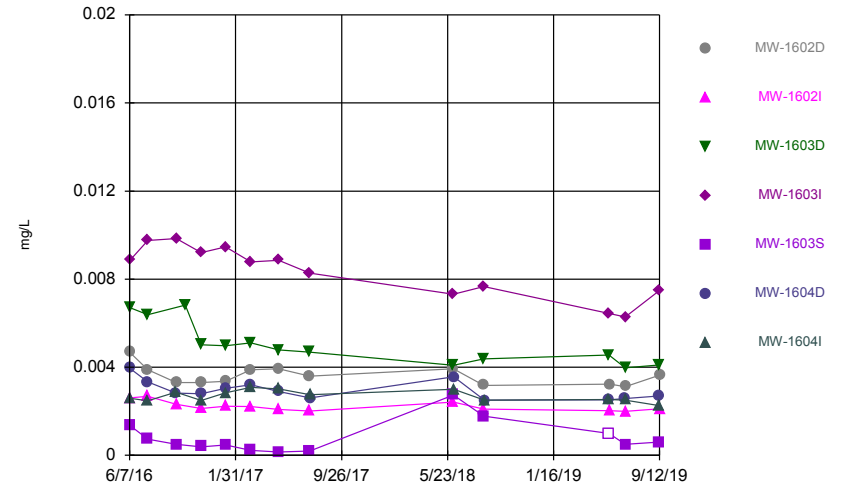
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Time Series



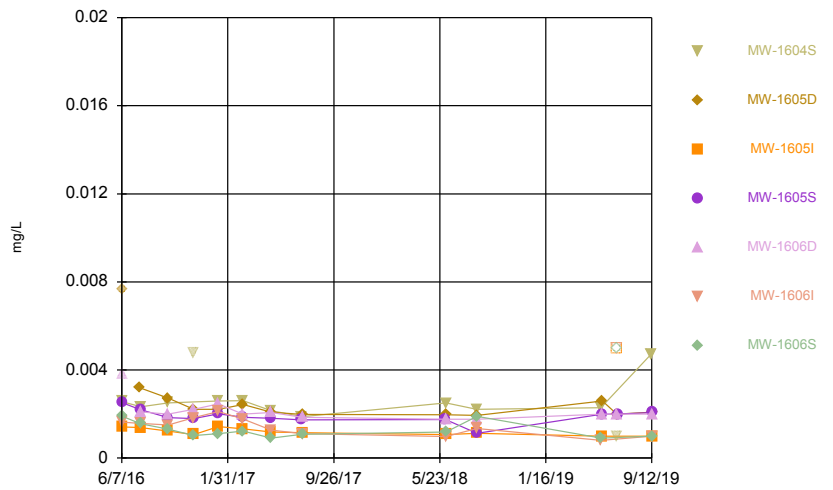
Constituent: Molybdenum, total Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



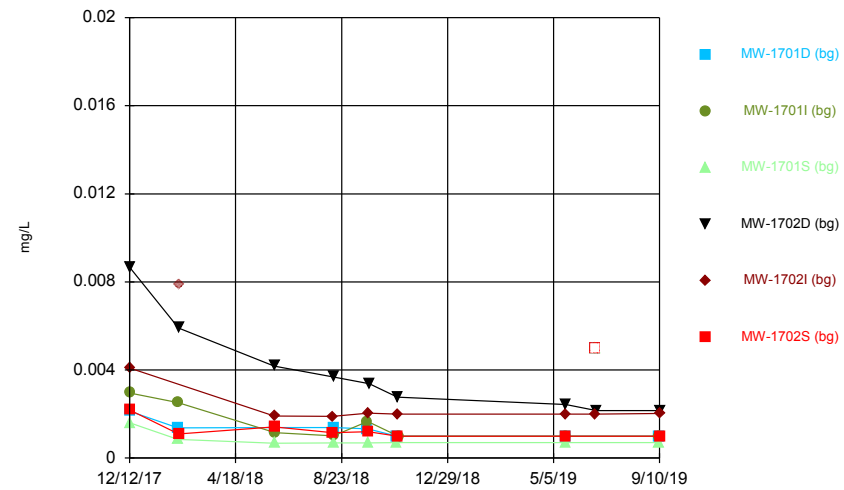
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



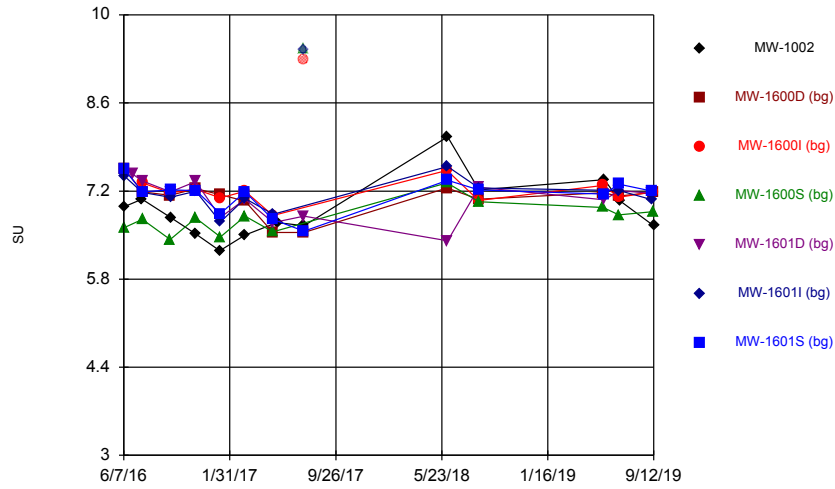
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



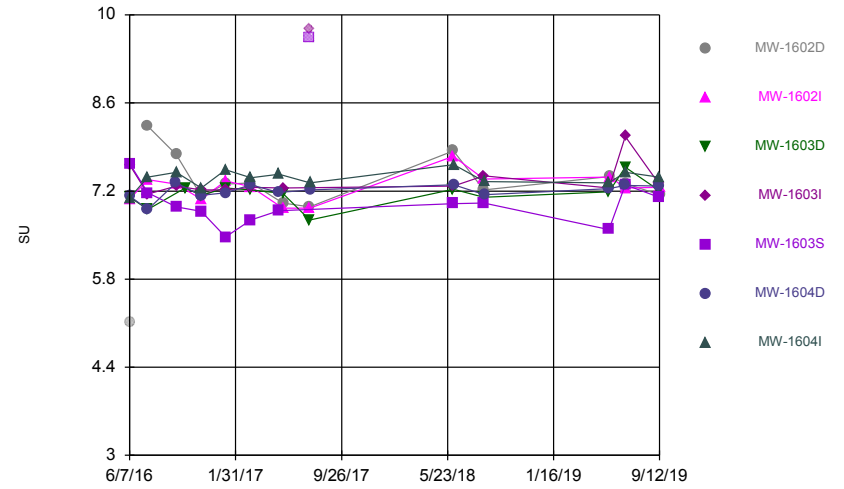
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



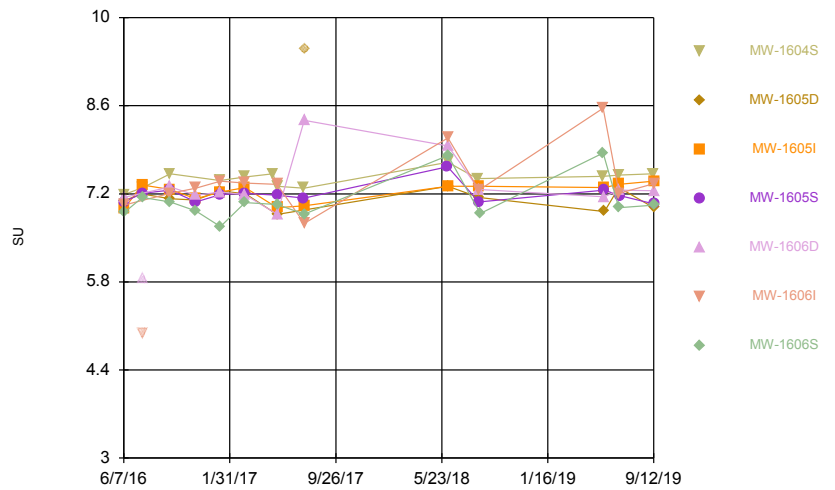
Constituent: pH, field Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



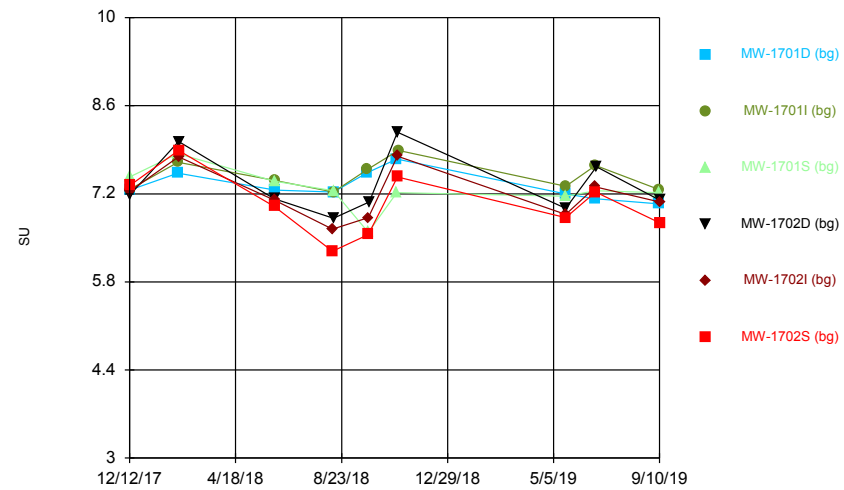
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



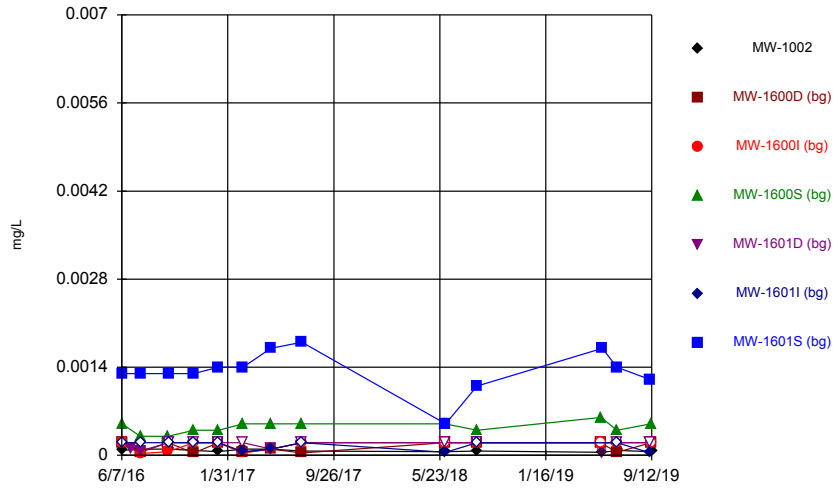
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



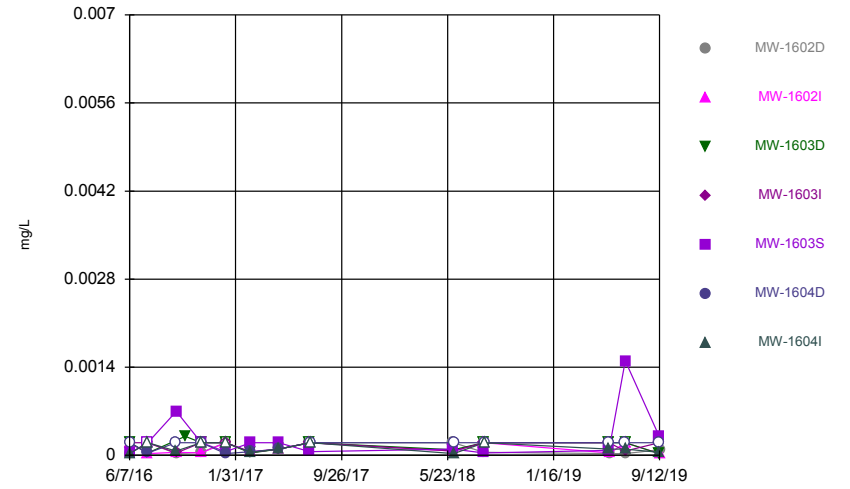
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



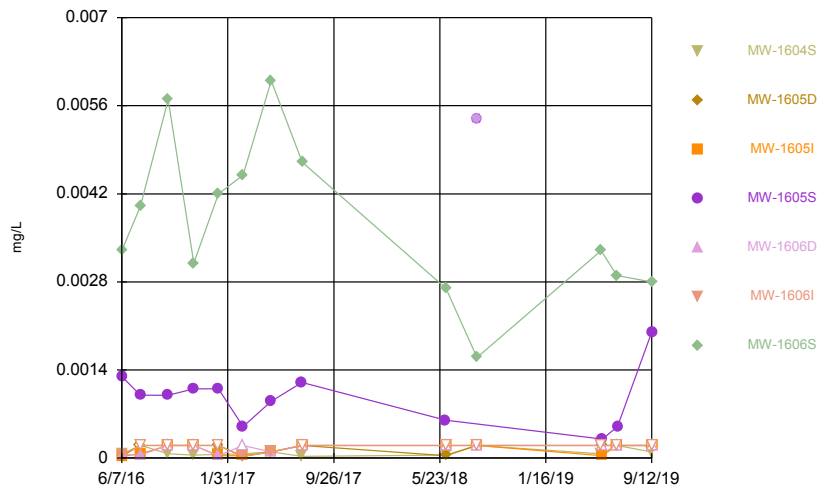
Constituent: Selenium, total Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



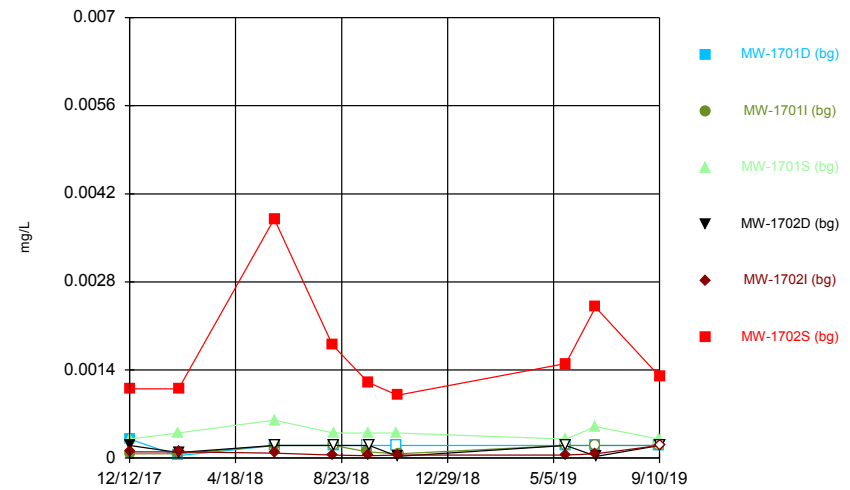
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



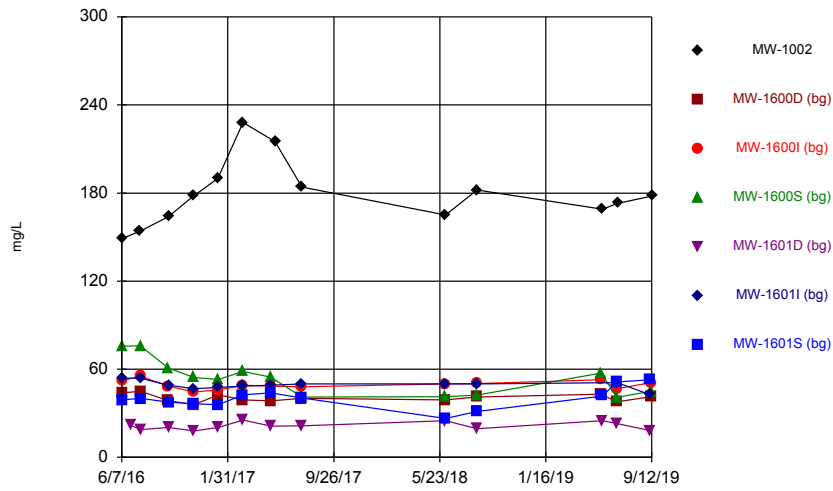
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



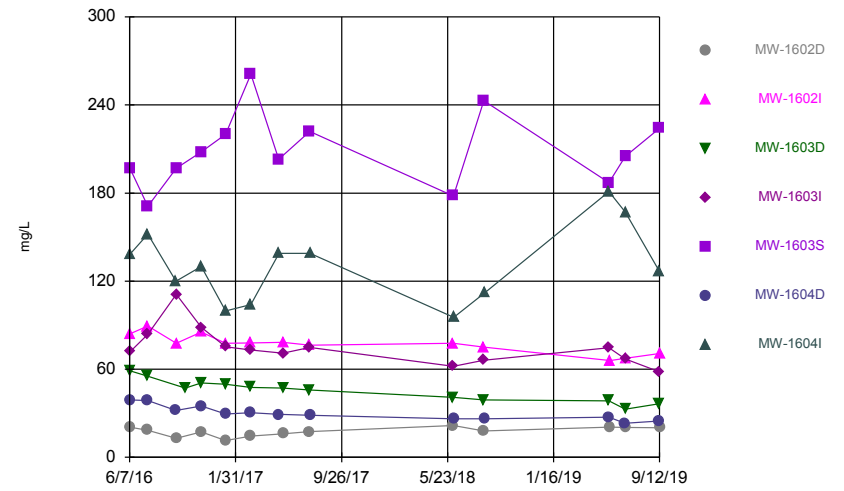
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



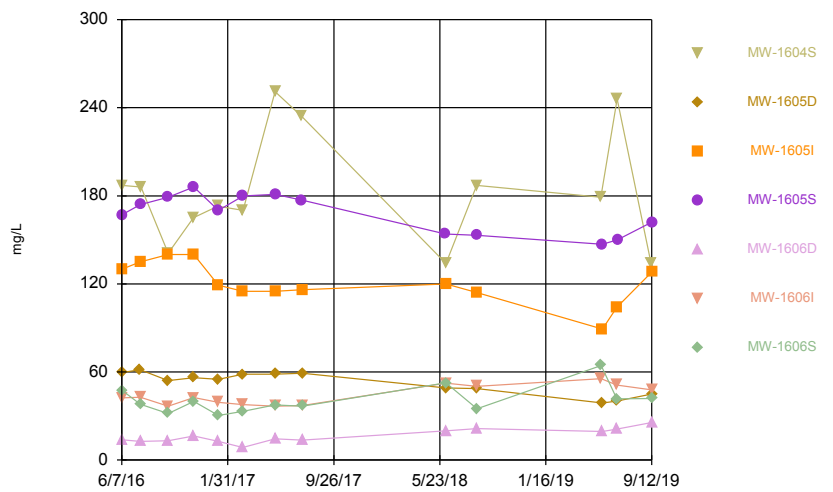
Constituent: Sulfate, total Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



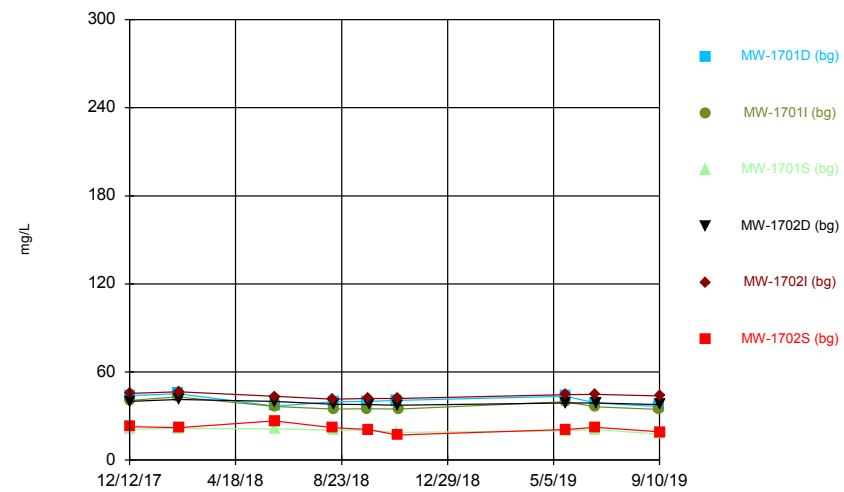
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Time Series



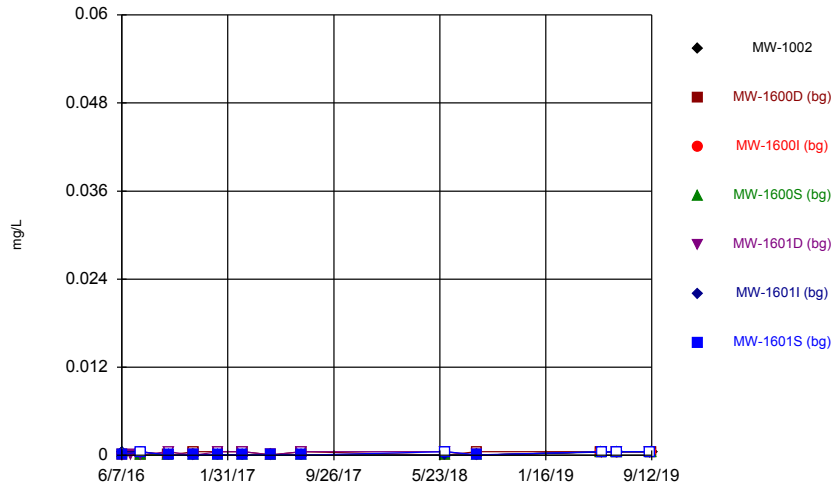
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



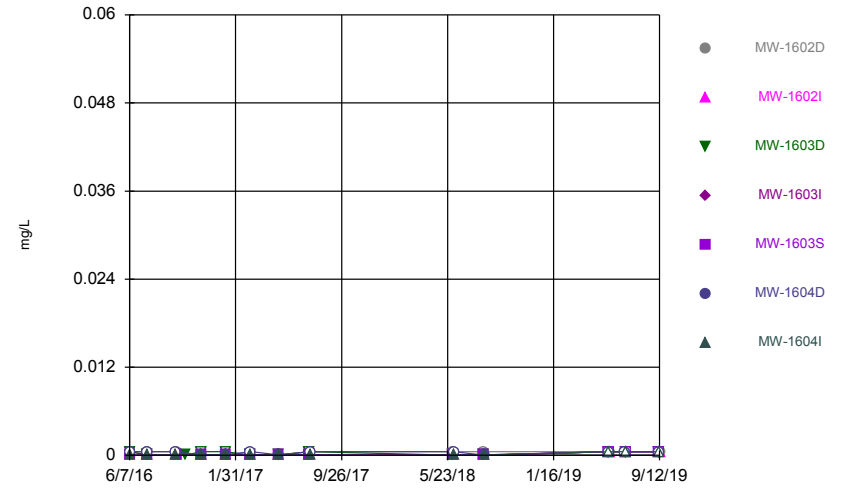
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



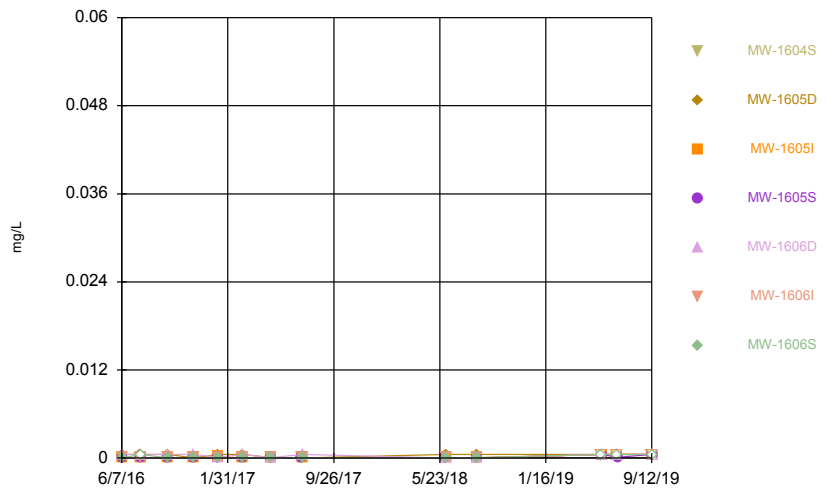
Constituent: Thallium, total Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



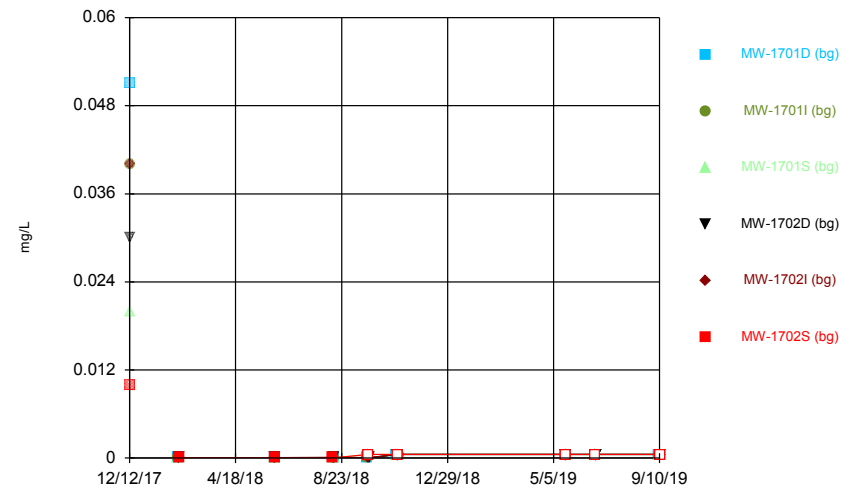
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



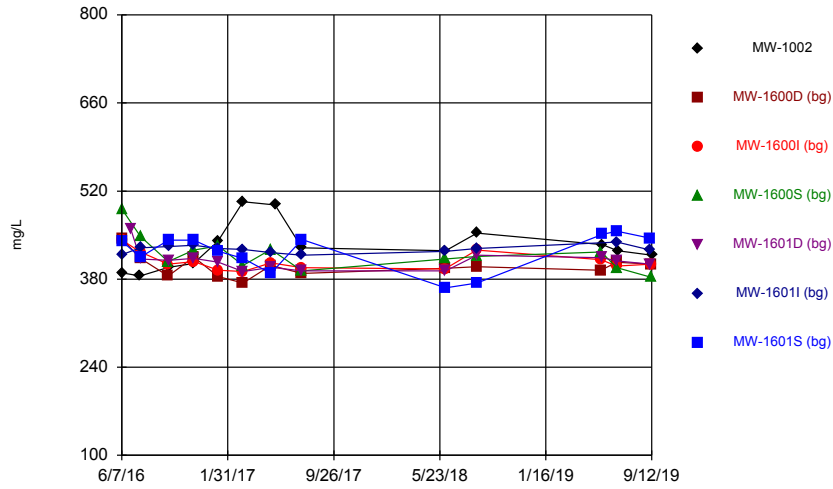
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



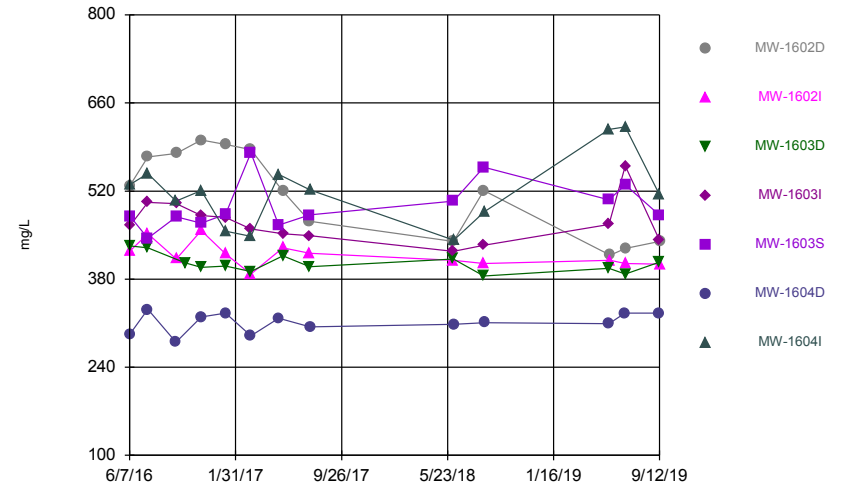
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Time Series



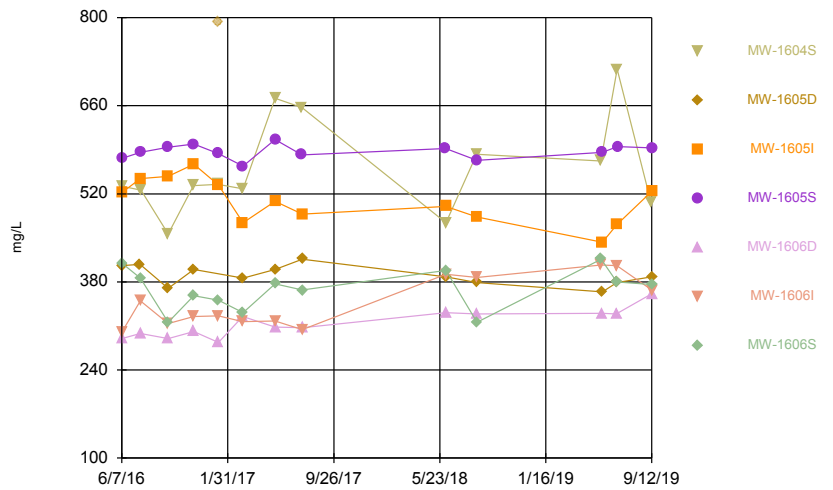
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



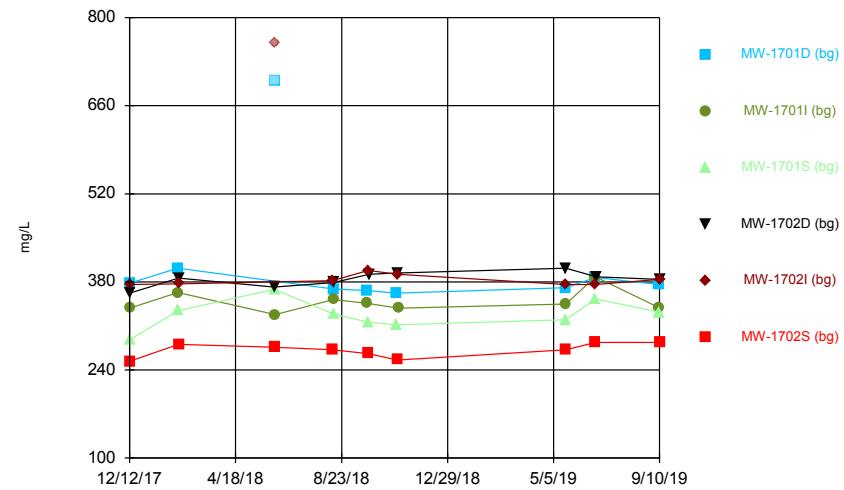
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



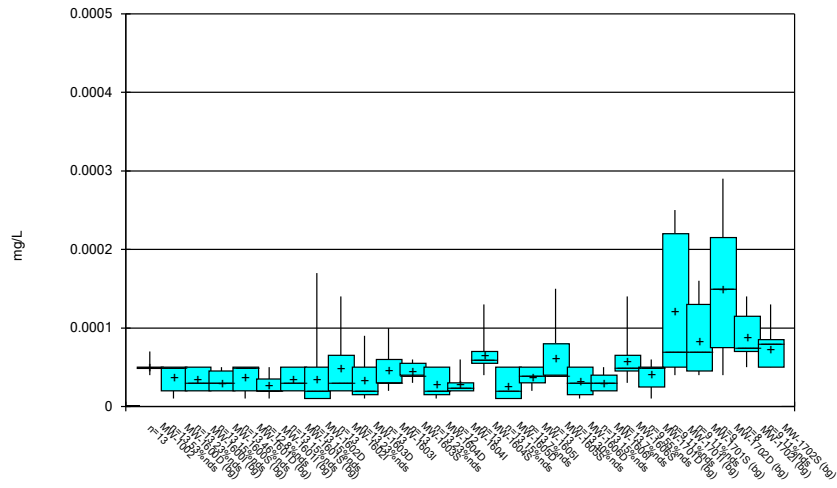
Constituent: Total Dissolved Solids [TDS] Analysis Run 12/5/2019 11:21 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Time Series



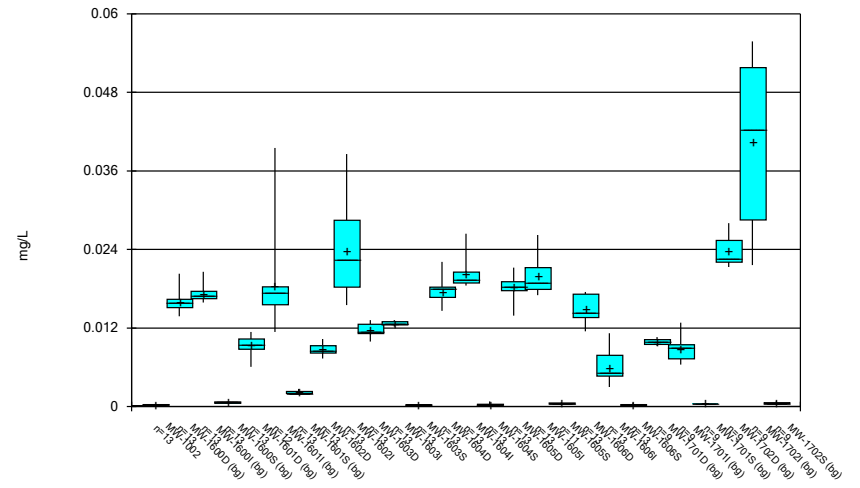
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Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



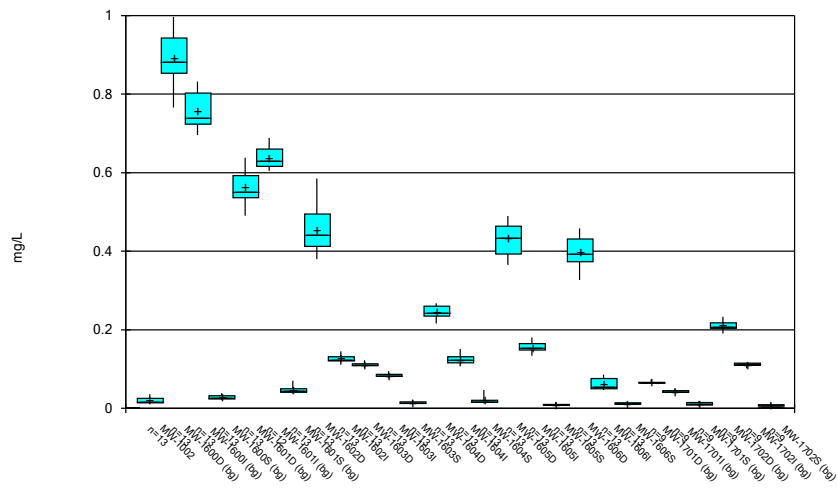
Constituent: Antimony, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



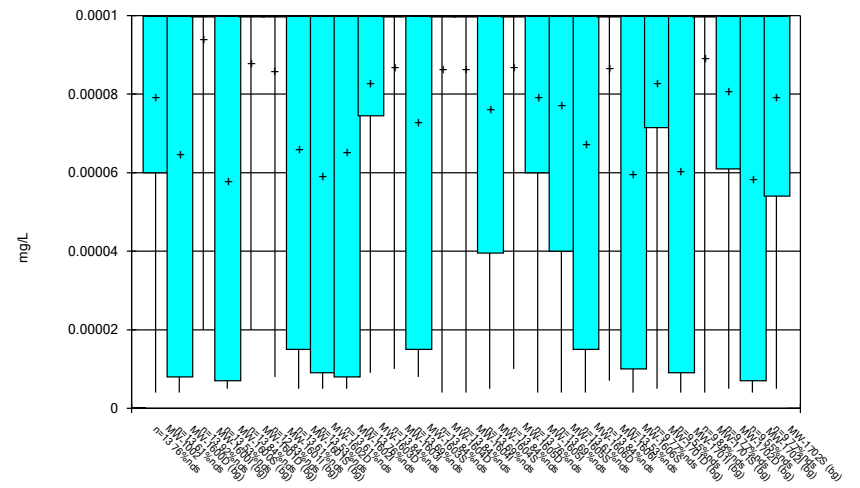
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 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



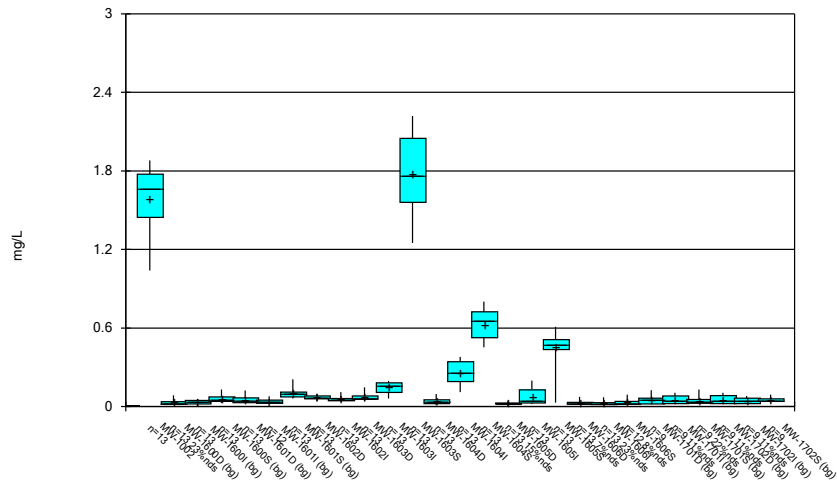
Constituent: Barium, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



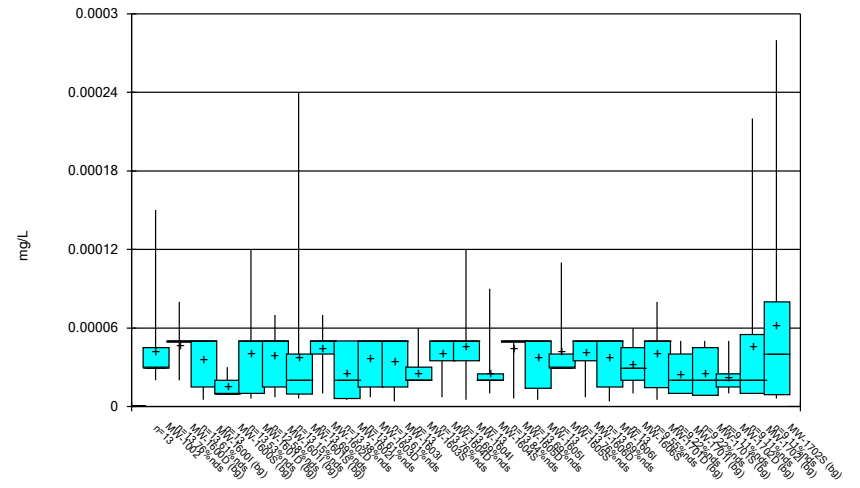
Constituent: Beryllium, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



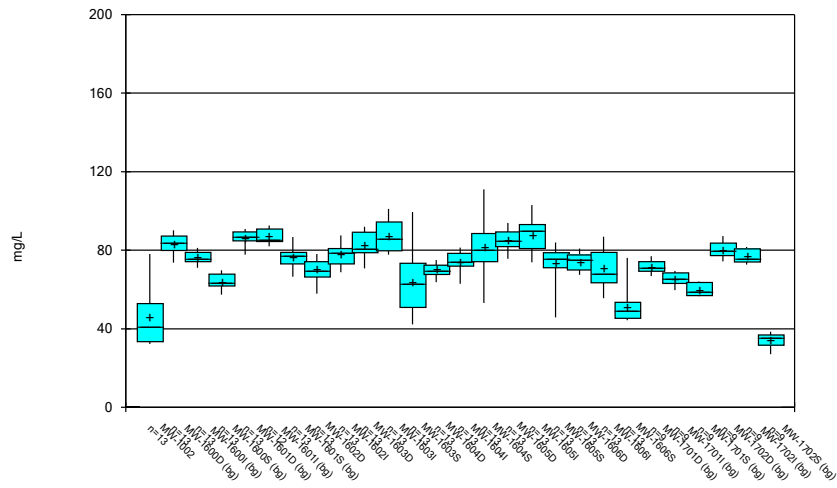
Constituent: Boron, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



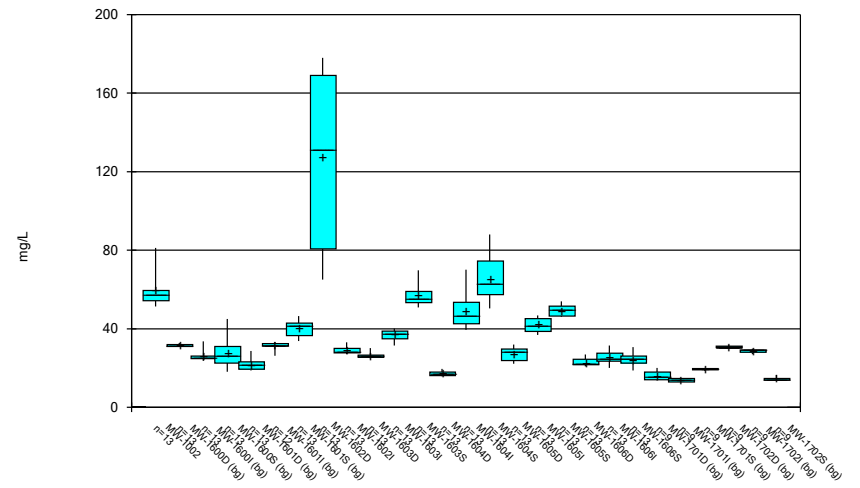
Constituent: Cadmium, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



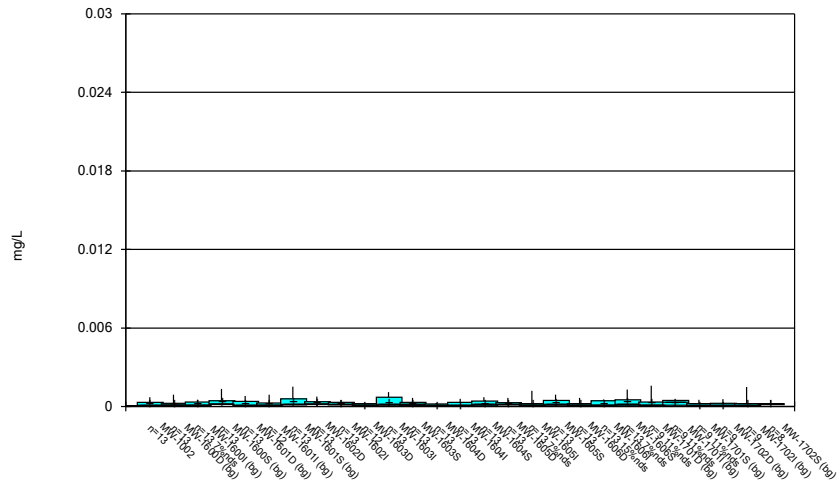
Constituent: Calcium, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



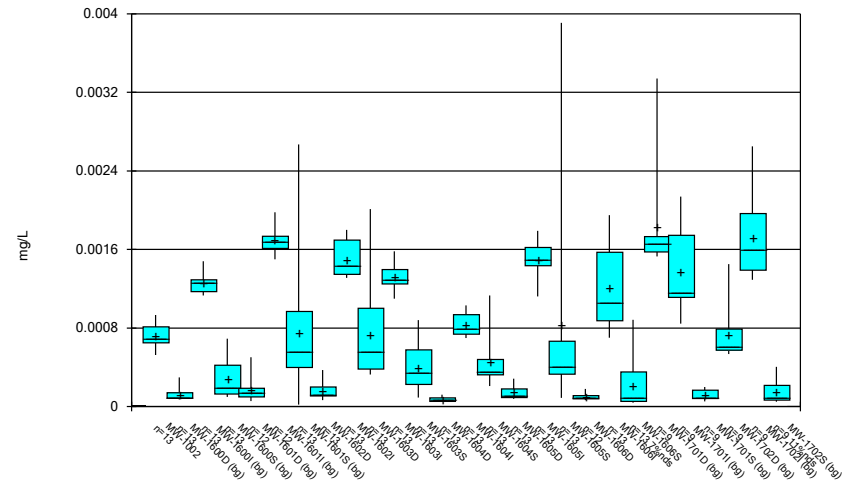
Constituent: Chloride, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



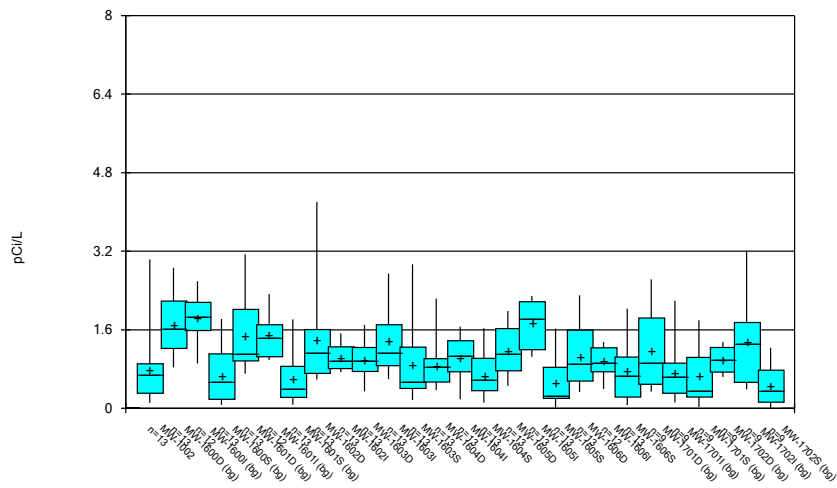
Constituent: Chromium, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



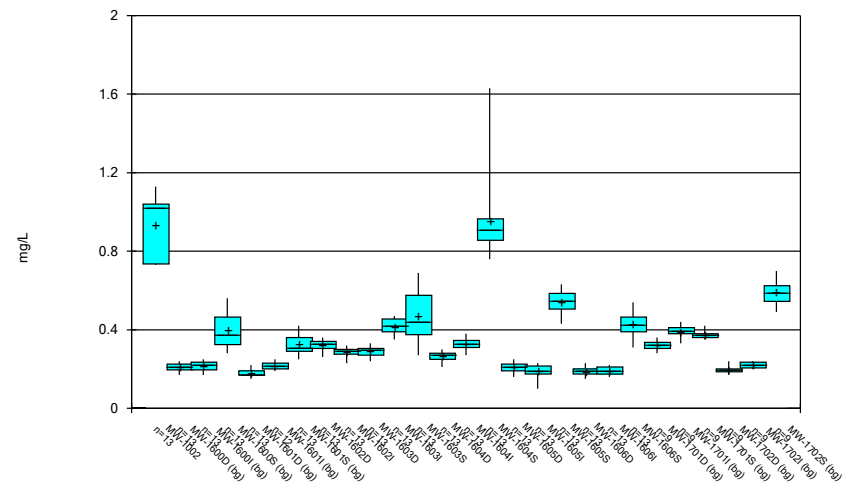
Constituent: Cobalt, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



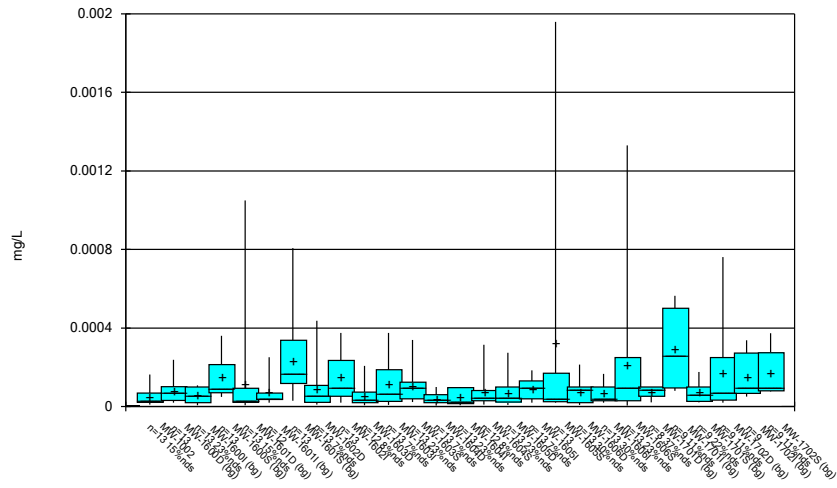
Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



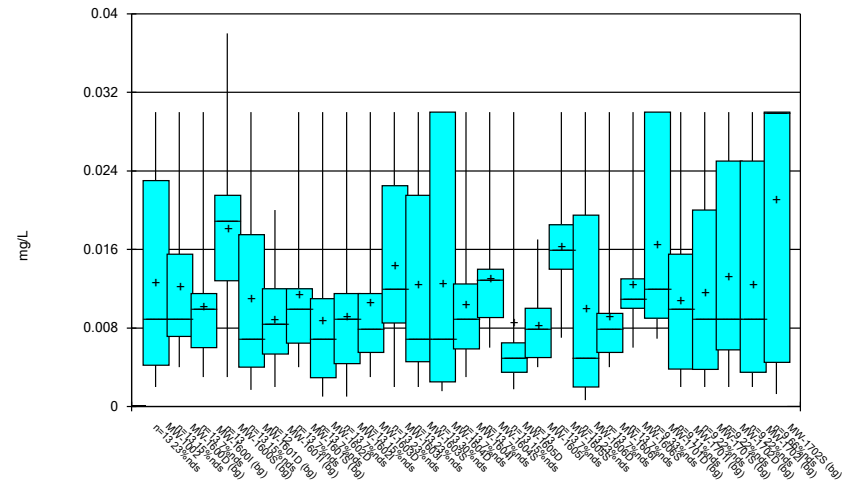
Constituent: Fluoride, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



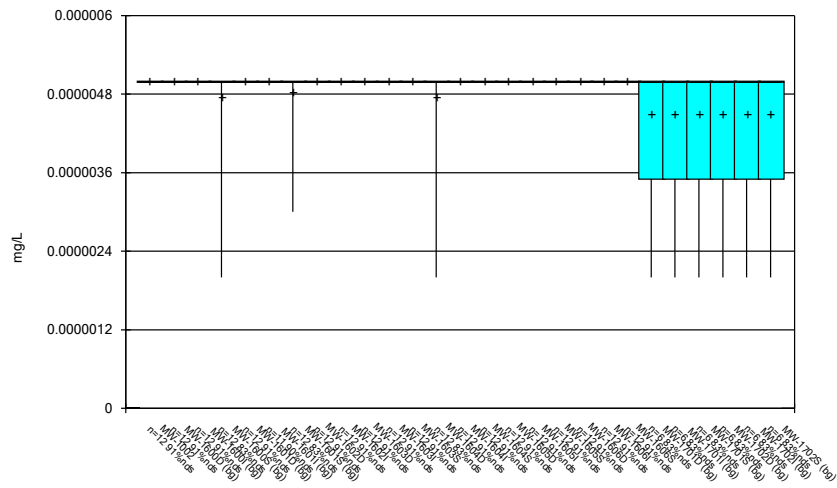
Constituent: Lead, total Analysis Run 12/5/2019 11:26 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



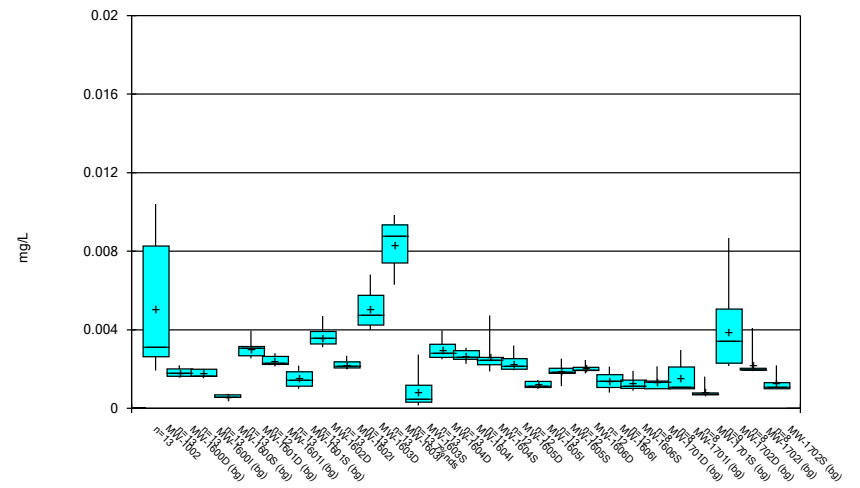
Constituent: Lithium, total Analysis Run 12/5/2019 11:27 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



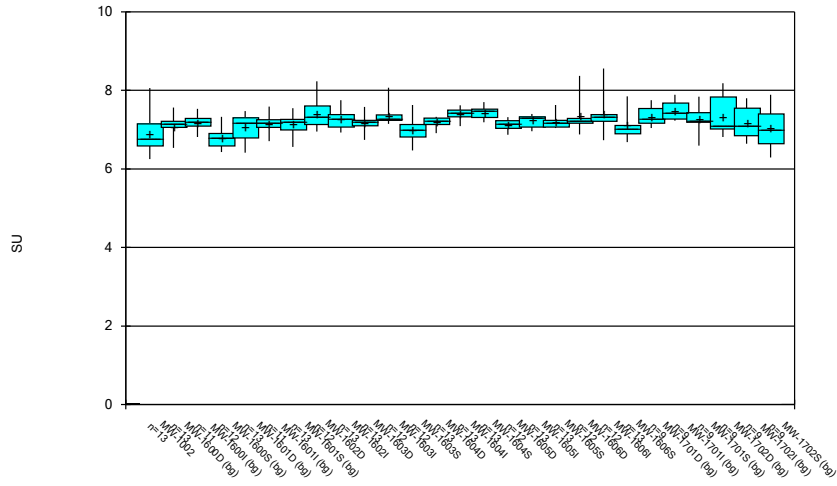
Constituent: Mercury, total Analysis Run 12/5/2019 11:27 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



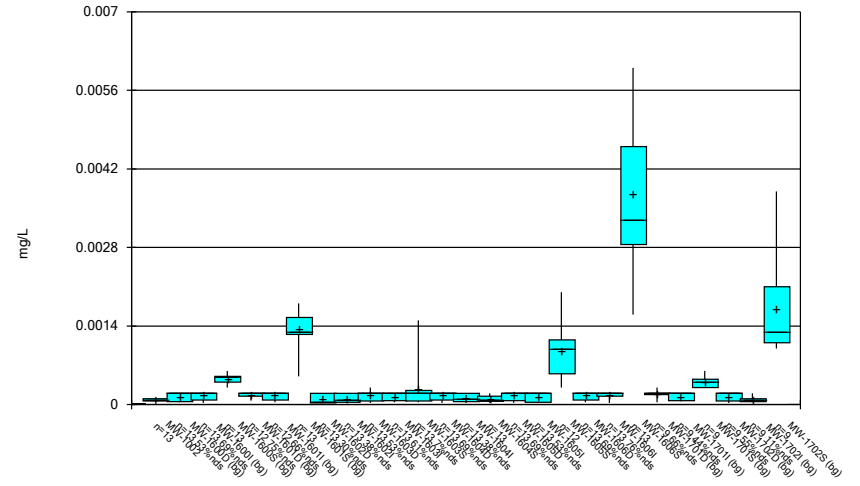
Constituent: Molybdenum, total Analysis Run 12/5/2019 11:27 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



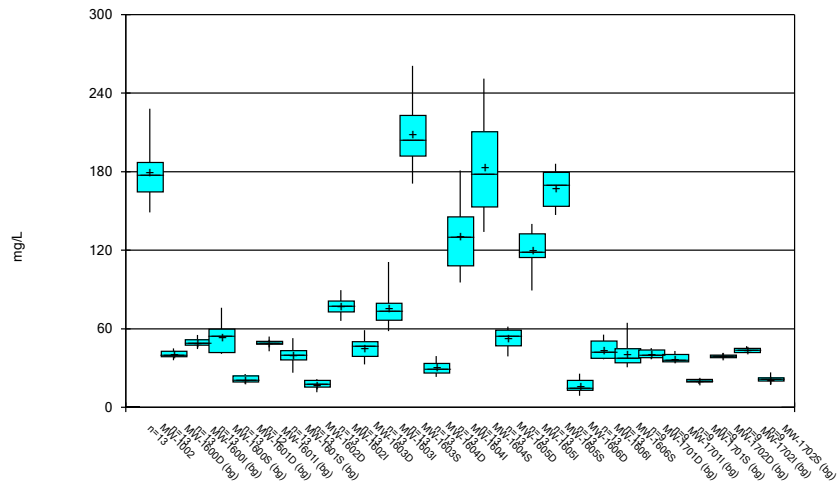
Constituent: pH, field Analysis Run 12/5/2019 11:27 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



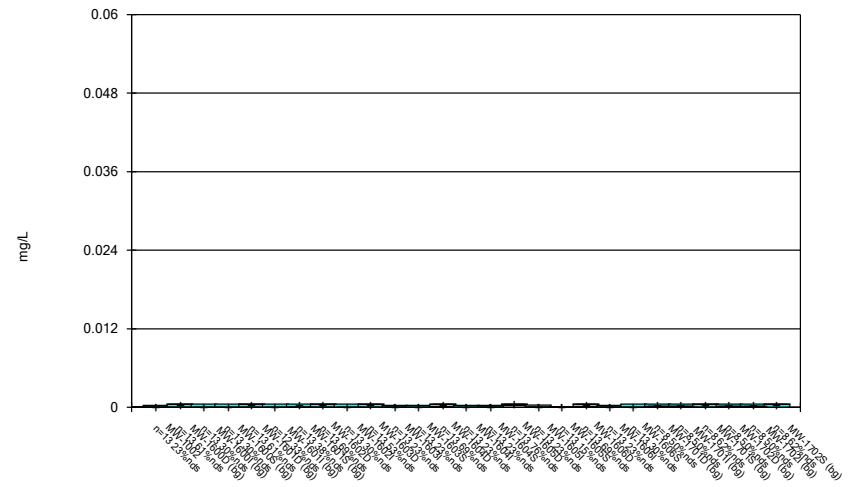
Constituent: Selenium, total Analysis Run 12/5/2019 11:27 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



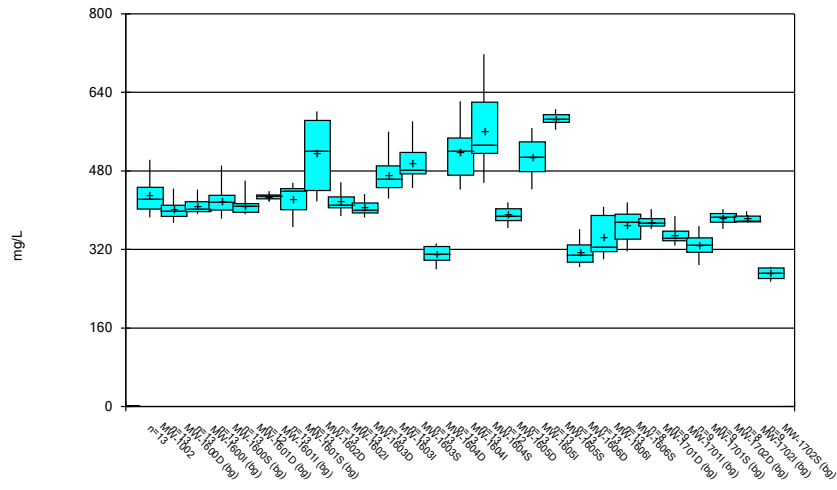
Constituent: Sulfate, total Analysis Run 12/5/2019 11:27 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 12/5/2019 11:27 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/5/2019 11:27 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:02 PM

MW-1604I Antimony, total (mg/L)
 MW-1702I Antimony, total (mg/L)
 MW-1605S Arsenic, total (mg/L)
 MW-1606S Boron, total (mg/L)
 MW-1603D Chromium, total (mg/L)
 MW-1702S Chromium, total (mg/L)
 MW-1601D Cobalt, total (mg/L)
 MW-1606D Cobalt, total (mg/L)
 MW-1600I Combined Radium 226 + 228 (pCi/L)
 MW-1606I Combined Radium 226 + 228 (pCi/L)

| Date | MW-1604I Antimony, total (mg/L) | MW-1702I Antimony, total (mg/L) | MW-1605S Arsenic, total (mg/L) | MW-1606S Boron, total (mg/L) | MW-1603D Chromium, total (mg/L) | MW-1702S Chromium, total (mg/L) | MW-1601D Cobalt, total (mg/L) | MW-1606D Cobalt, total (mg/L) | MW-1600I Combined Radium 226 + 228 (pCi/L) | MW-1606I Combined Radium 226 + 228 (pCi/L) |
|------------|---------------------------------|---------------------------------|--------------------------------|------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|--|--|
| 6/7/2016 | | | | | | | 0.000508 (o) | | | |
| 6/8/2016 | | | | | | | | 7.25 (o) | | |
| 6/27/2016 | | | | | 0.00136 (o) | | | | | |
| 7/19/2016 | | | | | | | | | | |
| 7/20/2016 | | | | | | | | | | |
| 10/10/2016 | | | | 0.0238 (o) | | | | | | |
| 11/15/2016 | | | | | | | | | | |
| 1/10/2017 | | | | | | | | | 4.283 (o) | |
| 3/7/2017 | | | | | | | | | | |
| 7/17/2017 | | | | | | | | | | |
| 7/18/2017 | 0.00024 (o) | | | | | | | | | |
| 12/12/2017 | | | | | 0.00413 (o) | | | | | |
| 2/9/2018 | | | | | | | | | | |
| 6/4/2018 | | | | | | | | | | |
| 6/5/2018 | | | | | | | | | | |
| 8/15/2018 | | | | 0.563 (o) | | | | | | |
| 9/25/2018 | 0.00044 (o) | | | | | | | | | |
| 5/24/2019 | | | | | | | | | 0.00284 (o) | |
| 6/25/2019 | | | | | | | | | | |
| 6/27/2019 | | | | | | | | | 0.00244 (o) | |

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:02 PM

MW-1603D Lead, total (mg/L) MW-1604S Lead, total (mg/L) MW-1701D Lead, total (mg/L) MW-1604S Molybdenum, total (mg/L) MW-1605D Molybdenum, total (mg/L) MW-1605I Molybdenum, total (mg/L) MW-1606D Molybdenum, total (mg/L) MW-1606I Molybdenum, total (mg/L) MW-1606S Molybdenum, total (mg/L) MW-1701S Molybdenum, total (mg/L)

| Date | MW-1603D Lead, total (mg/L) | MW-1604S Lead, total (mg/L) | MW-1701D Lead, total (mg/L) | MW-1604S Molybdenum, total (mg/L) | MW-1605D Molybdenum, total (mg/L) | MW-1605I Molybdenum, total (mg/L) | MW-1606D Molybdenum, total (mg/L) | MW-1606I Molybdenum, total (mg/L) | MW-1606S Molybdenum, total (mg/L) | MW-1701S Molybdenum, total (mg/L) |
|------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 6/7/2016 | | | | 0.00765 (o) | 0.00382 (o) | | | | | |
| 6/8/2016 | | | | | | | | | | |
| 6/27/2016 | | | | | | | | | | |
| 7/19/2016 | | | | | | | | | | |
| 7/20/2016 | | 0.000911 (o) | | | | | | | | |
| 10/10/2016 | 0.00138 (o) | | | | | | | | | |
| 11/15/2016 | | | | 0.00479 (o) | | | | | | |
| 1/10/2017 | | | | | | | | | | |
| 3/7/2017 | | | | | | | | | | |
| 7/17/2017 | | | | | | | | | | |
| 7/18/2017 | | | | | | | | | | |
| 12/12/2017 | | 0.00154 (o) | | | | | | | | |
| 2/9/2018 | | | | | | | | | | |
| 6/4/2018 | | | | | | | | | | |
| 6/5/2018 | | | | | | | | | | |
| 8/15/2018 | | | | | | | | | | |
| 9/25/2018 | | | | | | | | | | |
| 5/24/2019 | | | | | | | | | | |
| 6/25/2019 | | | | | <0.01 (o) | <0.01 (o) | <0.01 (o) | <0.01 (o) | | |
| 6/27/2019 | | | | | | | | | | |

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:02 PM

MW-1702I Molybdenum, total (mg/L) MW-1702S Molybdenum, total (mg/L) MW-1701D Molybdenum, total (mg/L) MW-1701I Molybdenum, total (mg/L) MW-1600I pH, field (SU) MW-1600S pH, field (SU) MW-1601I pH, field (SU) MW-1602D pH, field (SU) MW-1603I pH, field (SU) MW-1603S pH, field (SU)

| Date | MW-1702I Molybdenum, total (mg/L) | MW-1702S Molybdenum, total (mg/L) | MW-1701D Molybdenum, total (mg/L) | MW-1701I Molybdenum, total (mg/L) | MW-1600I pH, field (SU) | MW-1600S pH, field (SU) | MW-1601I pH, field (SU) | MW-1602D pH, field (SU) | MW-1603I pH, field (SU) | MW-1603S pH, field (SU) |
|------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 6/7/2016 | | | | | | | | 5.12 (o) | | |
| 6/8/2016 | | | | | | | | | | |
| 6/27/2016 | | | | | | | | | | |
| 7/19/2016 | | | | | | | | | | |
| 7/20/2016 | | | | | | | | | | |
| 10/10/2016 | | | | | | | | | | |
| 11/15/2016 | | | | | | | | | | |
| 1/10/2017 | | | | | | | | | | |
| 3/7/2017 | | | | | | | | | | |
| 7/17/2017 | | | | | 9.29 (o) | 9.46 (o) | 9.45 (o) | | 9.78 (o) | 9.63 (o) |
| 7/18/2017 | | | | | | | | | | |
| 12/12/2017 | | | | | | | | | | |
| 2/9/2018 | 0.0079 (o) | | | | | | | | | |
| 6/4/2018 | | | | | | | | | | |
| 6/5/2018 | | | | | | | | | | |
| 8/15/2018 | | | | | | | | | | |
| 9/25/2018 | | | | | | | | | | |
| 5/24/2019 | | | | | | | | | | |
| 6/25/2019 | <0.01 (o) | <0.01 (o) | <0.01 (o) | | | | | | | |
| 6/27/2019 | | | | | | | | | | |

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:02 PM

MW-1605D pH, field (SU) MW-1606D pH, field (SU) MW-1606I pH, field (SU) MW-1605S Selenium, total (mg/L) MW-1701S Thallium, total (mg/L) MW-1702D Thallium, total (mg/L) MW-1702I Thallium, total (mg/L) MW-1702S Thallium, total (mg/L) MW-1701D Thallium, total (mg/L) MW-1701I Thallium, total (mg/L)

| Date | MW-1605D pH, field (SU) | MW-1606D pH, field (SU) | MW-1606I pH, field (SU) | MW-1605S Selenium, total (mg/L) | MW-1701S Thallium, total (mg/L) | MW-1702D Thallium, total (mg/L) | MW-1702I Thallium, total (mg/L) | MW-1702S Thallium, total (mg/L) | MW-1701D Thallium, total (mg/L) | MW-1701I Thallium, total (mg/L) |
|------------|-------------------------|-------------------------|-------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 6/7/2016 | | | | | | | | | | |
| 6/8/2016 | | | | | | | | | | |
| 6/27/2016 | | | | | | | | | | |
| 7/19/2016 | 5.85 (o) | | 4.98 (o) | | | | | | | |
| 7/20/2016 | | | | | | | | | | |
| 10/10/2016 | | | | | | | | | | |
| 11/15/2016 | | | | | | | | | | |
| 1/10/2017 | | | | | | | | | | |
| 3/7/2017 | | | | | | | | | | |
| 7/17/2017 | | | | | | | | | | |
| 7/18/2017 | 9.51 (o) | | | | | | | | | |
| 12/12/2017 | | | | 0.02 (o) | 0.03 (o) | 0.04 (o) | 0.01 (o) | 0.051 (o) | 0.04 (o) | |
| 2/9/2018 | | | | | | | | | | |
| 6/4/2018 | | | | | | | | | | |
| 6/5/2018 | | | | | | | | | | |
| 8/15/2018 | | | | 0.0054 (o) | | | | | | |
| 9/25/2018 | | | | | | | | | | |
| 5/24/2019 | | | | | | | | | | |
| 6/25/2019 | | | | | | | | | | |
| 6/27/2019 | | | | | | | | | | |

Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:02 PM

MW-1603S Total Dissolved Solids [TDS] (mg/L)
MW-1605D Total Dissolved Solids [TDS] (mg/L)
MW-1702I Total Dissolved Solids [TDS] (mg/L)
MW-1701D Total Dissolved Solids [TDS] (mg/L)

| | | | | |
|------------|---------|---------|---------|--|
| 6/7/2016 | | | | |
| 6/8/2016 | | | | |
| 6/27/2016 | | | | |
| 7/19/2016 | | | | |
| 7/20/2016 | | | | |
| 10/10/2016 | | | | |
| 11/15/2016 | | | | |
| 1/10/2017 | | 794 (o) | | |
| 3/7/2017 | 581 (o) | | | |
| 7/17/2017 | | | | |
| 7/18/2017 | | | | |
| 12/12/2017 | | | | |
| 2/9/2018 | | | | |
| 6/4/2018 | | 760 (o) | | |
| 6/5/2018 | | | 700 (o) | |
| 8/15/2018 | | | | |
| 9/25/2018 | | | | |
| 5/24/2019 | | | | |
| 6/25/2019 | | | | |
| 6/27/2019 | | | | |

Upgradient Outlier Analysis - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:19 AM

| Constituent | Well | Outlier | Value(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|-------------------------------------|----------------------|---------|---|--------|-------|-----|---------|-----------|--------------|----------------|
| Arsenic, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.0395,0.028,0.0225,0.0225,0.0252,0.0213,0.022,0. | NP | NaN | 131 | 0.01193 | 0.01141 | x^6 | ChiSquared |
| Barium, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.94,0.946,0.91,0.997,0.877,0.986,0.914,0.817,0.8 | NP | NaN | 131 | 0.3165 | 0.3335 | x^6 | ChiSquared |
| Boron, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.085,0.129,0.129,0.088,0.09,0.09,0.122,0.108,0.1 | NP | NaN | 131 | 0.05068 | 0.03264 | x^6 | ChiSquared |
| Chloride, total (mg/L) | MW-1600D,MW-1600I... | Yes | 44.9,45.9,46.4,43.5,42.3,42,41.1,41.9,41.7 | NP | NaN | 131 | 25.91 | 8.271 | x^6 | ChiSquared |
| Combined Radium 226 + 228 (pCi/L) | MW-1600D,MW-1600I... | Yes | 2.148,2.265,2.223,2.86,7.25,2.47,2.59,2.301,2.248 | NP | NaN | 131 | 1.163 | 0.9081 | x^6 | ChiSquared |
| Fluoride, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.56,0.51,0.47,0.46,0.49,0.62,0.57,0.55,0.54,0.61 | NP | NaN | 131 | 0.2954 | 0.1184 | x^6 | ChiSquared |
| Lithium, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.03,0.03,0.03,0.03,0.03,0.03,0.03,0.03,0.03,0.03 | NP | NaN | 131 | 0.013 | 0.009518 | x^6 | ChiSquared |
| Sulfate, total (mg/L) | MW-1600D,MW-1600I... | Yes | 75.8,76.60,8,58.5 | NP | NaN | 131 | 38.78 | 12.04 | x^6 | ChiSquared |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600D,MW-1600I... | Yes | 491,700,760 | NP | NaN | 131 | 392.8 | 62.3 | x^6 | ChiSquared |

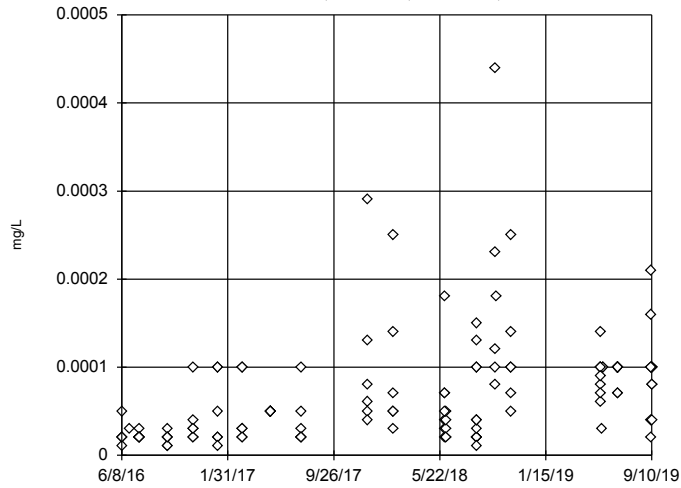
Upgradient Outlier Analysis - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:19 AM

| Constituent | Well | Outlier | Value(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|--|-----------------------------|------------|--|-----------|------------|------------|----------------|-----------------|--------------|-------------------|
| Antimony, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.00007183 | 0.00006257 | unknown | ChiSquared |
| Arsenic, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.0395,0.028,0.0225,0.0225,0.0252,0.0213,0.022,0. | NP | NaN | 131 | 0.01193 | 0.01141 | x^6 | ChiSquared |
| Barium, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.94,0.946,0.91,0.997,0.877,0.986,0.914,0.817,0.8 | NP | NaN | 131 | 0.3165 | 0.3335 | x^6 | ChiSquared |
| Beryllium, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.00007566 | 0.00003995 | unknown | ChiSquared |
| Boron, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.085,0.129,0.129,0.088,0.09,0.09,0.122,0.108,0.1 | NP | NaN | 131 | 0.05068 | 0.03264 | x^6 | ChiSquared |
| Cadmium, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.00003643 | 0.00003909 | unknown | ChiSquared |
| Chloride, total (mg/L) | MW-1600D,MW-1600I... | Yes | 44.9,45.9,46.4,43.5,42.3,42,41.1,41.9,41.7 | NP | NaN | 131 | 25.91 | 8.271 | x^6 | ChiSquared |
| Chromium, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.0002983 | 0.0004447 | unknown | ChiSquared |
| Cobalt, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.0008243 | 0.0007206 | unknown | ChiSquared |
| Combined Radium 226 + 228 (pCi/L) | MW-1600D,MW-1600I... | Yes | 2.148,2.265,2.223,2.86,7.25,2.47,2.59,2.301,2.248 | NP | NaN | 131 | 1.163 | 0.9081 | x^6 | ChiSquared |
| Fluoride, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.56,0.51,0.47,0.46,0.49,0.62,0.57,0.55,0.54,0.61 | NP | NaN | 131 | 0.2954 | 0.1184 | x^6 | ChiSquared |
| Lead, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.0001455 | 0.0002012 | unknown | ChiSquared |
| Lithium, total (mg/L) | MW-1600D,MW-1600I... | Yes | 0.03,0.03,0.03,0.03,0.03,0.03,0.03,0.03,0.03,0.03 | NP | NaN | 131 | 0.013 | 0.009518 | x^6 | ChiSquared |
| Mercury, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 107 | 0.000004785 | 7.7e-7 | unknown | ChiSquared |
| Molybdenum, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.002013 | 0.001308 | unknown | ChiSquared |
| Selenium, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.0004187 | 0.0005572 | unknown | ChiSquared |
| Sulfate, total (mg/L) | MW-1600D,MW-1600I... | Yes | 75.8,76.60.8,58.5 | NP | NaN | 131 | 38.78 | 12.04 | x^6 | ChiSquared |
| Thallium, total (mg/L) | MW-1600D,MW-1600I... | n/a | n/a | NP | NaN | 131 | 0.001699 | 0.007252 | unknown | ChiSquared |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600D,MW-1600I... | Yes | 491,700,760 | NP | NaN | 131 | 392.8 | 62.3 | x^6 | ChiSquared |

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

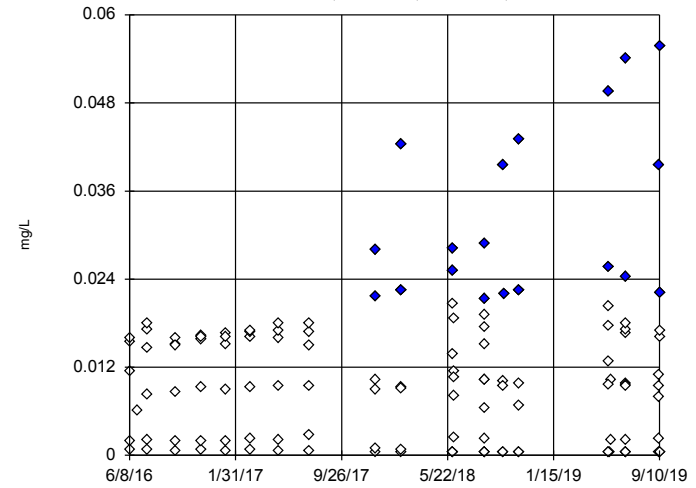


n = 131
 No outliers found.
 Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Antimony, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

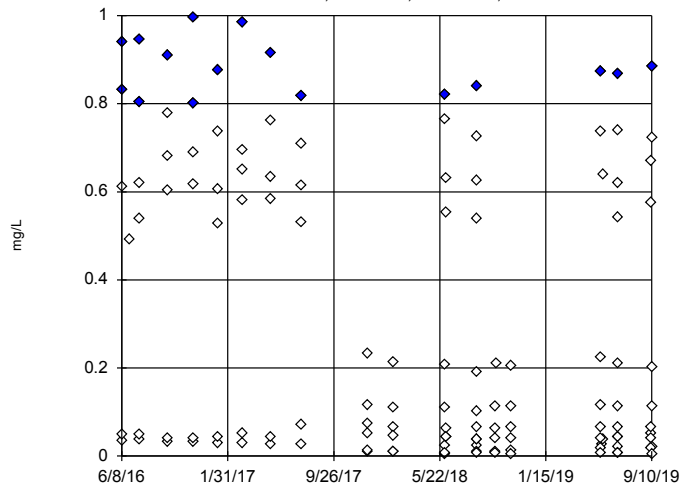


n = 131
 Outliers are drawn as solid.
 Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.02129, low cutoff = -0.0203, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

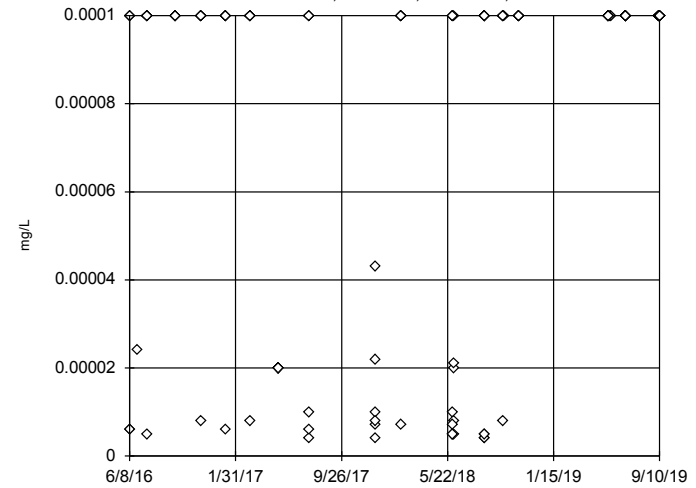


n = 131
 Outliers are drawn as solid.
 Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.795, low cutoff = -0.7576, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

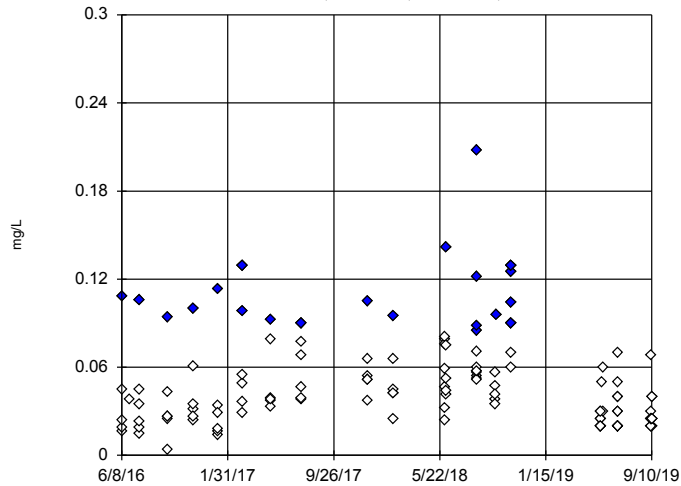


n = 131
 No outliers found.
 Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

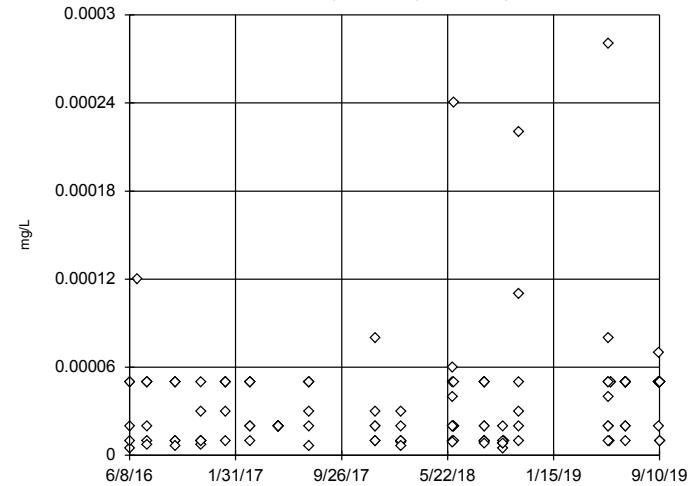


n = 131
 Outliers are drawn as solid. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.08312, low cutoff = -0.07921, based on IQR multiplier of 3.

Constituent: Boron, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

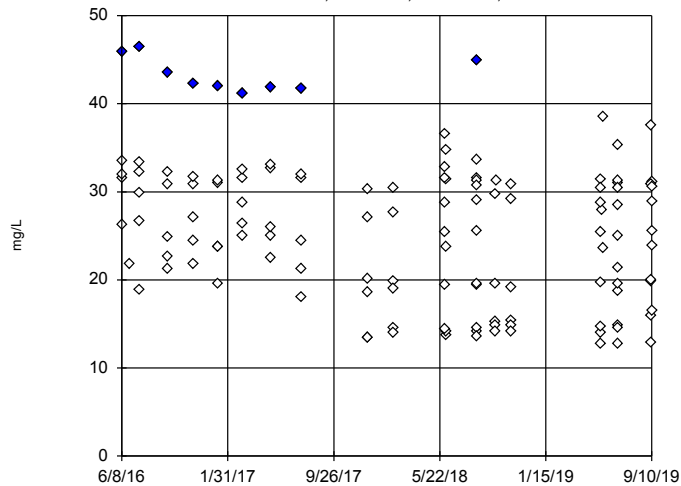


n = 131
 No outliers found. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

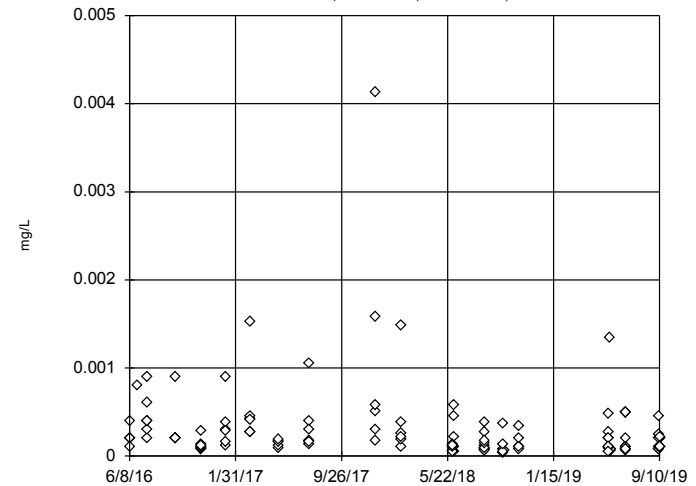


n = 131
 Outliers are drawn as solid. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 39.28, low cutoff = -37.23, based on IQR multiplier of 3.

Constituent: Chloride, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

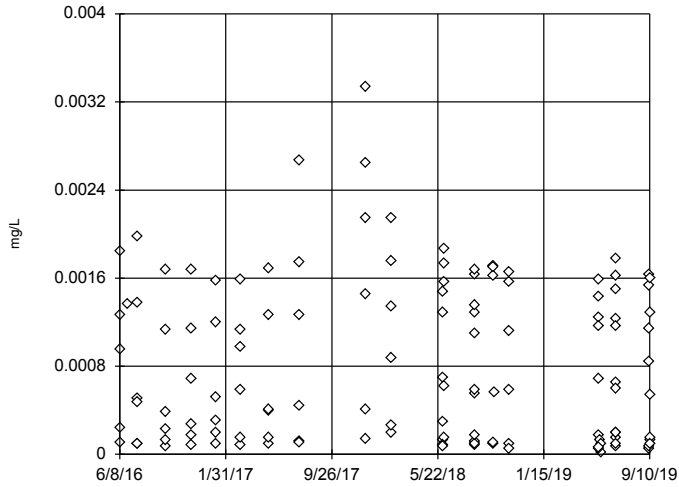


n = 131
 No outliers found. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Chromium, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

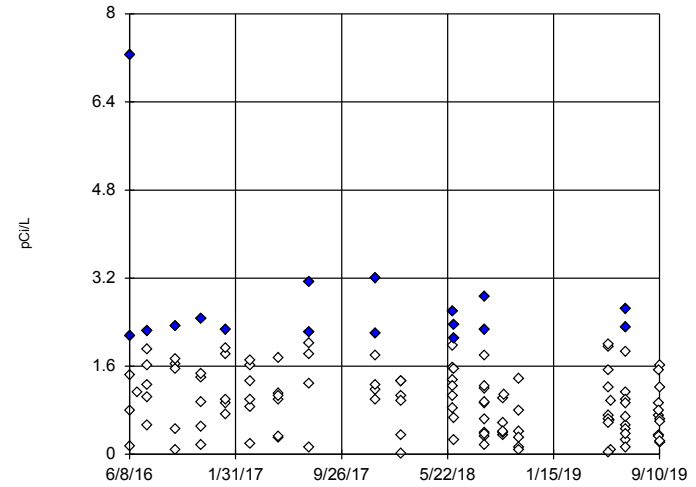


n = 131
 No outliers found.
 Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

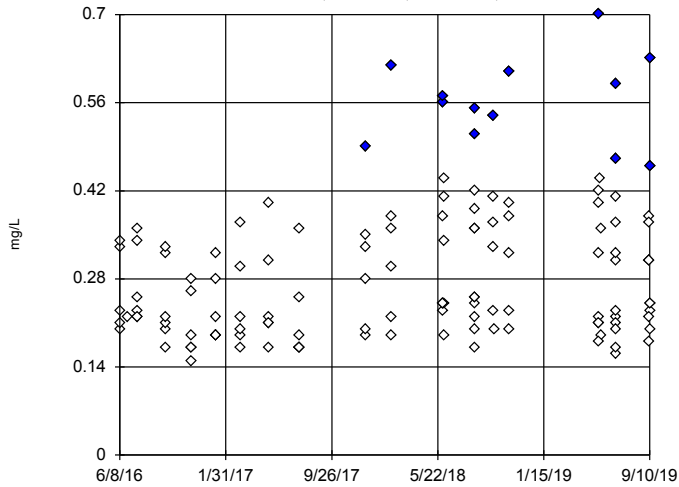


n = 131
 Outliers are drawn as solid.
 Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 2.046, low cutoff = -1.95, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

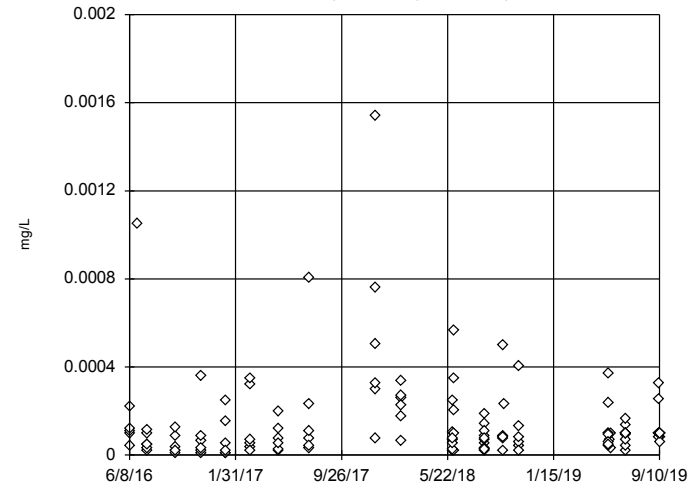


n = 131
 Outliers are drawn as solid.
 Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.4519, low cutoff = -0.4295, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

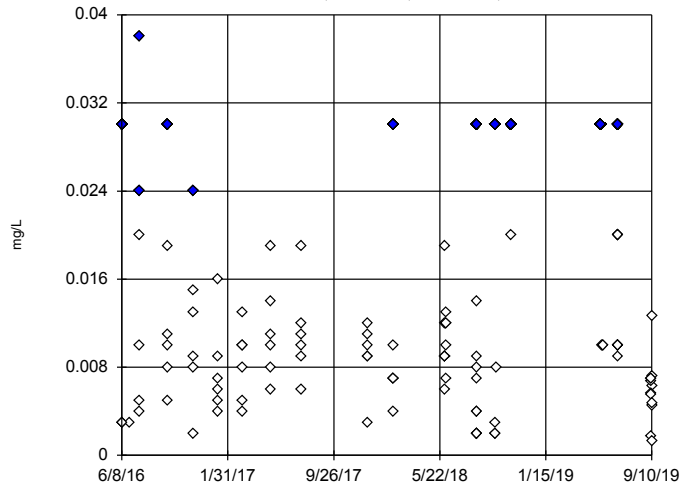


n = 131
 No outliers found.
 Tukey's method selected by user.
 Data were x*5 transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Lead, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 131

Outliers are drawn as solid. Tukey's method selected by user.

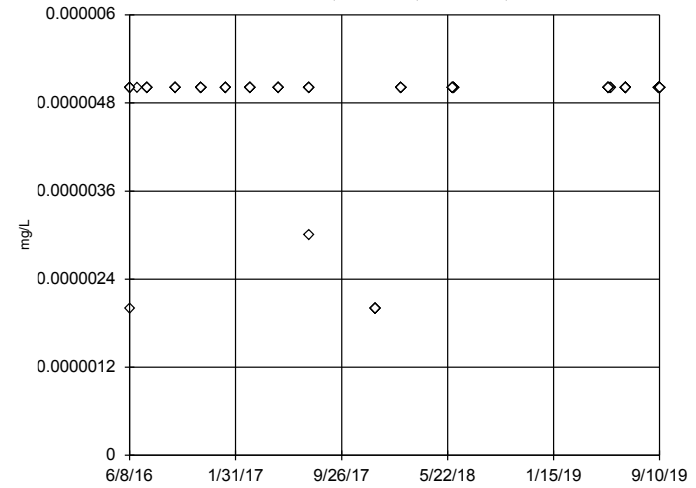
Data were x*6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.02394, low cutoff = -0.02281, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:17 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 107

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

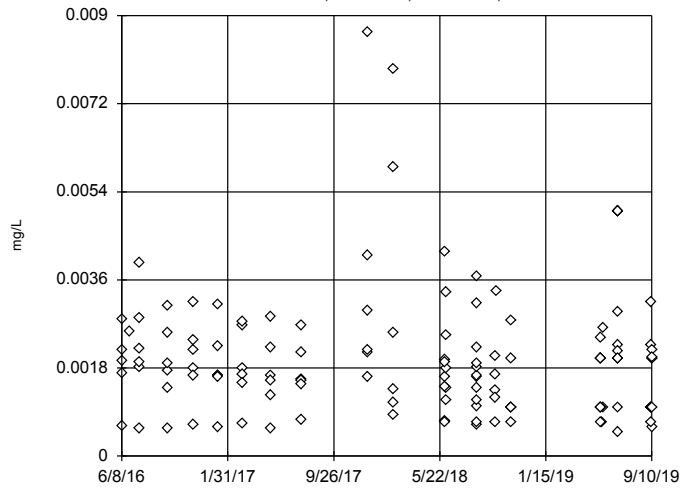
Ladder of Powers transformations did not improve normality; analysis run on raw data.

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

Constituent: Mercury, total Analysis Run 12/5/2019 10:17 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 131

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

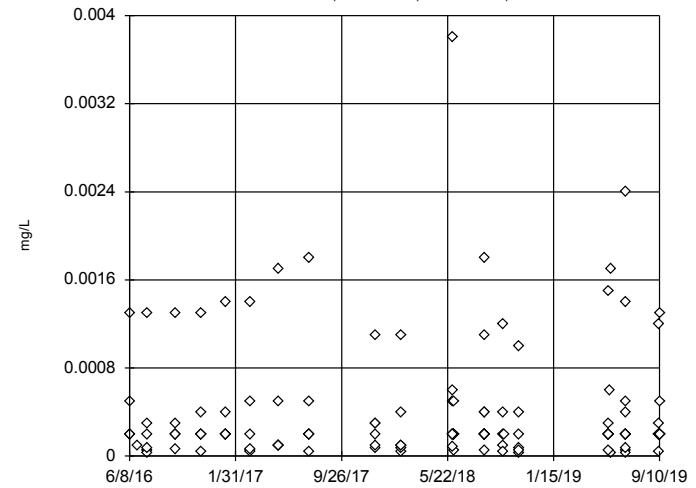
Data were x*6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:17 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 131

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

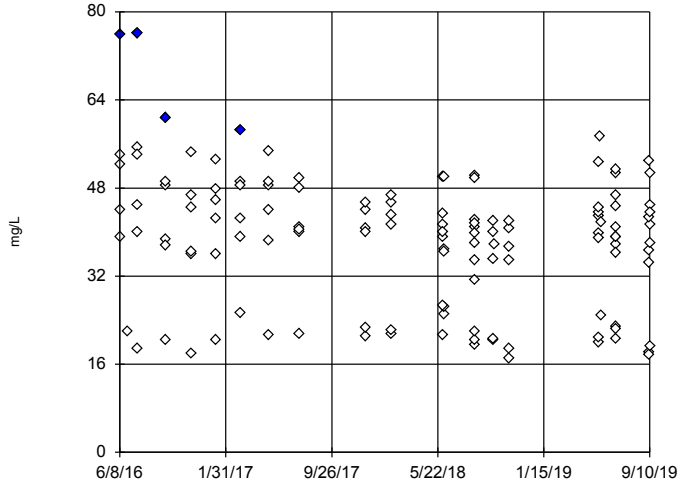
Data were x*6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Selenium, total Analysis Run 12/5/2019 10:17 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

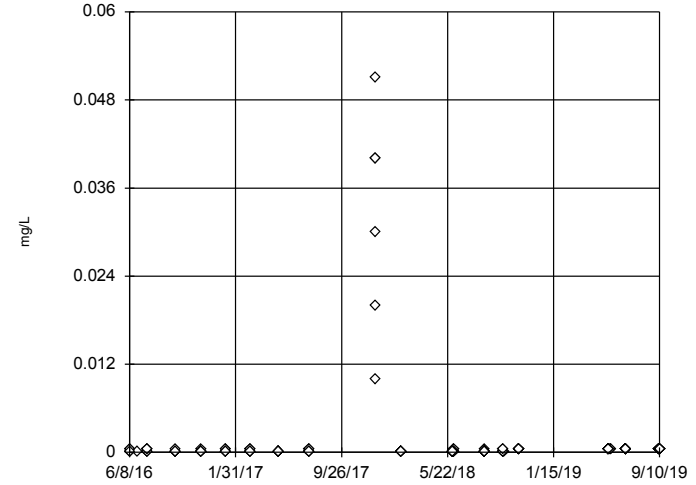


n = 131
 Outliers are drawn as solid. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 58.02, low cutoff = -54.76, based on IQR multiplier of 3.

Constituent: Sulfate, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

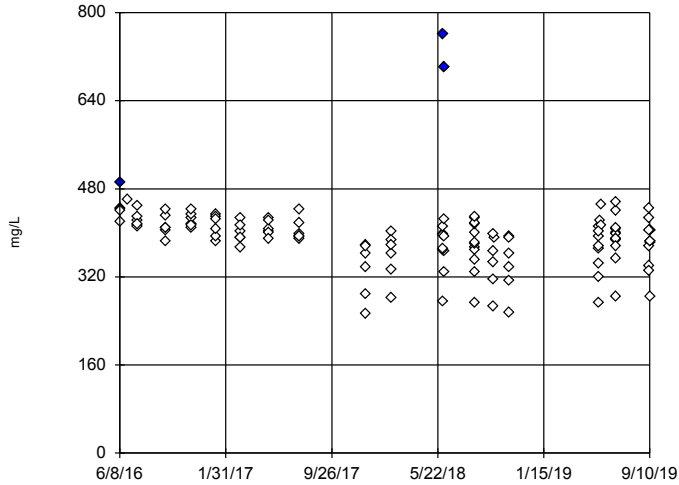


n = 131
 No outliers found. Tukey's method selected by user.
 Data were x*5 transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Thallium, total Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 131
 Outliers are drawn as solid. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 487.3, low cutoff = -418.9, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/5/2019 10:17 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Outlier Analysis - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:15 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|--------------------------|---------------|---------|-------------------------|--------------------------------|--------|-------|----|------------|------------|--------------|----------------|
| Antimony, total (mg/L) | MW-1604I | Yes | 0.00024 | 7/18/2017 | NP | NaN | 13 | 0.00004462 | 0.00005981 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1605I | Yes | 0.00025 | 6/25/2019 | NP | NaN | 13 | 0.00005308 | 0.00005991 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1605S | Yes | 0.00284,0.00244 | 5/24/2019,6/27/2019 | NP | NaN | 13 | 0.0007823 | 0.0008351 | ln(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1002 | Yes | 0.000004 | 6/5/2018 | NP | NaN | 13 | 0.00007923 | 0.00003963 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1002 | Yes | 0.00015 | 11/15/2016 | NP | NaN | 13 | 0.00004308 | 0.00003473 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1602D | Yes | 0.00007 | 5/8/2017 | NP | NaN | 13 | 0.00004462 | 0.00001561 | x^2 | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1604S | Yes | 0.00009,0.00001,0.00001 | 7/20/2016,9/19/2016,3/7/2017 | NP | NaN | 13 | 0.00002538 | 0.00002025 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1605S | Yes | 0.00011 | 5/24/2019 | NP | NaN | 13 | 0.00004231 | 0.00002315 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1603D | Yes | 0.0238 | 10/10/2016 | NP | NaN | 13 | 0.001981 | 0.006556 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1606D | Yes | 0.000508 | 6/7/2016 | NP | NaN | 13 | 0.0001295 | 0.0001174 | ln(x) | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1604S | Yes | 1.63 | 9/10/2019 | NP | NaN | 13 | 0.9546 | 0.2155 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1604S | Yes | 0.00479,0.001,0.00472 | 11/15/2016,6/26/2019,9/10/2019 | NP | NaN | 13 | 0.002628 | 0.001037 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1605D | Yes | 0.00765 | 6/7/2016 | NP | NaN | 13 | 0.002698 | 0.001533 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1605I | Yes | 0.005 | 6/25/2019 | NP | NaN | 13 | 0.001492 | 0.001065 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1606D | Yes | 0.00382 | 6/7/2016 | NP | NaN | 13 | 0.002158 | 0.0005314 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1600I (bg) | Yes | 9.29 | 7/17/2017 | NP | NaN | 12 | 7.357 | 0.6329 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1600S (bg) | Yes | 9.46 | 7/17/2017 | NP | NaN | 13 | 6.988 | 0.781 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1601I (bg) | Yes | 9.45 | 7/17/2017 | NP | NaN | 12 | 7.342 | 0.7042 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1603I | Yes | 9.78 | 7/17/2017 | NP | NaN | 13 | 7.548 | 0.7132 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1603S | Yes | 9.63 | 7/17/2017 | NP | NaN | 13 | 7.182 | 0.7937 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1605D | Yes | 9.51 | 7/18/2017 | NP | NaN | 13 | 7.308 | 0.6758 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1606D | Yes | 5.85,8.37,7.96 | 7/19/2016,7/18/2017,6/6/2018 | NP | NaN | 13 | 7.234 | 0.5691 | x^2 | ShapiroWilk |
| pH, field (SU) | MW-1606I | Yes | 4.98,8.09,8.56 | 7/19/2016,6/6/2018,5/21/2019 | NP | NaN | 13 | 7.218 | 0.8139 | x^4 | ShapiroWilk |
| pH, field (SU) | MW-1606S | Yes | 7.81,7.85 | 6/6/2018,5/21/2019 | NP | NaN | 13 | 7.095 | 0.3457 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1606I | Yes | 0.00003 | 3/6/2017 | NP | NaN | 13 | 0.0001677 | 0.00006313 | sqrt(x) | ShapiroWilk |

Outlier Analysis - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:15 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|--------------------------------|-----------------|------------|------------------------|----------------------------|-----------|------------|-----------|-------------------|-------------------|--------------|--------------------|
| Antimony, total (mg/L) | MW-1002 | n/a | n/a | n/a | NP | NaN | 13 | 0.00005077 | 0.000007596 | unknown | ShapiroWilk |
| Antimony, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.00003538 | 0.00004352 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.00004846 | 0.00003693 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.00003308 | 0.00002359 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.00004538 | 0.00002402 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.00004462 | 0.0000105 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.00002923 | 0.00001656 | x^(1/3) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1604I | Yes | 0.00024 | 7/18/2017 | NP | NaN | 13 | 0.00004462 | 0.00005981 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.00006462 | 0.00002145 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.00002538 | 0.00001761 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1605I | Yes | 0.00025 | 6/25/2019 | NP | NaN | 13 | 0.00005308 | 0.00005991 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.00006154 | 0.00003555 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.00003231 | 0.00001691 | normal | ShapiroWilk |
| Antimony, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.00006077 | 0.00008441 | ln(x) | ShapiroWilk |
| Antimony, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.00007385 | 0.00005966 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.0002615 | 0.00006296 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.008763 | 0.0008383 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.02365 | 0.006719 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.01171 | 0.001043 | x^2 | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.01269 | 0.0003148 | x^6 | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.0002269 | 0.00006486 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.0176 | 0.001735 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.02012 | 0.002072 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.0003085 | 0.0001604 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.01829 | 0.001699 | x^4 | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.01996 | 0.002928 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1605S | Yes | 0.00284,0.00244 | 5/24/2019,6/27/2019 | NP | NaN | 13 | 0.0007823 | 0.0008351 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.01488 | 0.001874 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.005995 | 0.002314 | ln(x) | ShapiroWilk |
| Arsenic, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.0002738 | 0.0001213 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.0192 | 0.007186 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.4538 | 0.05637 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.1255 | 0.009061 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.1116 | 0.005205 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.08396 | 0.004266 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.01494 | 0.003178 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.2445 | 0.01565 | x^(1/3) | ShapiroWilk |
| Barium, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.1238 | 0.01159 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.01945 | 0.0085 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.4322 | 0.0404 | x^2 | ShapiroWilk |
| Barium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.1557 | 0.01386 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.00925 | 0.002361 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.3987 | 0.03692 | normal | ShapiroWilk |
| Barium, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.06072 | 0.01359 | ln(x) | ShapiroWilk |
| Barium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.0124 | 0.002504 | ln(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1002 | Yes | 0.000004 | 6/5/2018 | NP | NaN | 13 | 0.00007923 | 0.00003963 | ln(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.00005915 | 0.00004613 | ln(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.00006515 | 0.00004602 | ln(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.00008292 | 0.00003353 | normal | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1603I | n/a | n/a | n/a | NP | NaN | 13 | 0.00008692 | 0.00003199 | unknown | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.00007292 | 0.00004236 | ln(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1604D | n/a | n/a | n/a | NP | NaN | 13 | 0.00008646 | 0.00003321 | unknown | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1604I | n/a | n/a | n/a | NP | NaN | 13 | 0.00008646 | 0.00003321 | unknown | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.00007623 | 0.00003917 | normal | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1605D | n/a | n/a | n/a | NP | NaN | 13 | 0.00008692 | 0.00003199 | unknown | ShapiroWilk |

Outlier Analysis - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:15 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|-------------------------------|-----------------|------------|--------------------------------|-------------------------------------|-----------|------------|-----------|-------------------|-------------------|--------------|--------------------|
| Beryllium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.00007908 | 0.00003994 | x^(1/3) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.00007723 | 0.0000366 | sqrt(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.00006723 | 0.00004373 | ln(x) | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1606I | n/a | n/a | n/a | NP | NaN | 13 | 0.00008669 | 0.00003259 | unknown | ShapiroWilk |
| Beryllium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.00005946 | 0.00004587 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1002 | Yes | 0.00015 | 11/15/2016 | NP | NaN | 13 | 0.00004308 | 0.00003473 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1602D | Yes | 0.00007 | 5/8/2017 | NP | NaN | 13 | 0.00004462 | 0.00001561 | x^2 | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.00002615 | 0.0000208 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.00003662 | 0.00001849 | x^(1/3) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.00003546 | 0.00001962 | x^(1/3) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.00002615 | 0.00001121 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.00004115 | 0.00001707 | sqrt(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.00004646 | 0.0000279 | sqrt(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1604S | Yes | 0.00009,0.00001,0.00001 | 7/20/2016,9/19/2016,3/7/2017 | NP | NaN | 13 | 0.00002538 | 0.00002025 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1605D | n/a | n/a | n/a | NP | NaN | 13 | 0.00004431 | 0.00001419 | unknown | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.00003777 | 0.00001938 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1605S | Yes | 0.00011 | 5/24/2019 | NP | NaN | 13 | 0.00004231 | 0.00002315 | ln(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.00004208 | 0.00001536 | sqrt(x) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.00003762 | 0.00001968 | x^(1/3) | ShapiroWilk |
| Cadmium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.00003231 | 0.00001589 | x^(1/3) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 46.12 | 15.63 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1600D (bg) | No | n/a | n/a | NP | NaN | 13 | 83.34 | 5.249 | x^6 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1600I (bg) | No | n/a | n/a | NP | NaN | 13 | 76.31 | 3.135 | x^6 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1600S (bg) | No | n/a | n/a | NP | NaN | 13 | 63.98 | 3.884 | x^2 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1601D (bg) | No | n/a | n/a | NP | NaN | 13 | 86.11 | 3.896 | x^6 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1601I (bg) | No | n/a | n/a | NP | NaN | 12 | 87 | 3.592 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1601S (bg) | No | n/a | n/a | NP | NaN | 13 | 76.33 | 4.903 | normal | ShapiroWilk |
| Calcium, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 70.01 | 5.584 | x^3 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 77.58 | 5.284 | normal | ShapiroWilk |
| Calcium, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 82.55 | 6.886 | x^2 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 87.22 | 8.018 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 63.87 | 15.84 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 70.04 | 3.13 | x^2 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 74.27 | 4.945 | x^5 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 81.72 | 14.18 | normal | ShapiroWilk |
| Calcium, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 85.42 | 4.765 | x^2 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 87.59 | 8.219 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 73.25 | 9.313 | x^6 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 74.25 | 4.391 | sqrt(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 70.85 | 9.511 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 51.04 | 8.386 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1701D (bg) | No | n/a | n/a | NP | NaN | 9 | 71.54 | 3.372 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1701I (bg) | No | n/a | n/a | NP | NaN | 9 | 65.32 | 3.164 | x^4 | ShapiroWilk |
| Calcium, total (mg/L) | MW-1701S (bg) | No | n/a | n/a | NP | NaN | 9 | 59.93 | 3.167 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1702D (bg) | No | n/a | n/a | NP | NaN | 9 | 80.23 | 4.287 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1702I (bg) | No | n/a | n/a | NP | NaN | 9 | 77.21 | 3.388 | ln(x) | ShapiroWilk |
| Calcium, total (mg/L) | MW-1702S (bg) | No | n/a | n/a | NP | NaN | 9 | 34.34 | 3.682 | x^6 | ShapiroWilk |
| Chromium, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.0002168 | 0.0001951 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.0002849 | 0.0001889 | sqrt(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.0002308 | 0.0001309 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1603D | Yes | 0.0238 | 10/10/2016 | NP | NaN | 13 | 0.001981 | 0.006556 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.0003698 | 0.0003461 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.0002288 | 0.0001874 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.0001248 | 0.00007031 | sqrt(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.0001865 | 0.0001651 | ln(x) | ShapiroWilk |

Outlier Analysis - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:15 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|-----------------------------------|-----------------|------------|-----------------|------------------|-----------|------------|-----------|------------------|------------------|--------------|--------------------|
| Chromium, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.0002529 | 0.0002154 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.0002323 | 0.0001543 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.0002371 | 0.0003116 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.0002935 | 0.000256 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.0002021 | 0.0001828 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.0002271 | 0.0001826 | ln(x) | ShapiroWilk |
| Chromium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.0003895 | 0.0004145 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.0007198 | 0.0001128 | normal | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.0001565 | 0.00008524 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.001494 | 0.000178 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.0007276 | 0.0005086 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.001318 | 0.0001205 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.0003951 | 0.0002244 | x^(1/3) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.00007231 | 0.00002429 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.0008333 | 0.000122 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.0004549 | 0.000274 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.0001378 | 0.00006674 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.0015 | 0.0001702 | x^3 | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.0008297 | 0.001099 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1606D | Yes | 0.000508 | 6/7/2016 | NP | NaN | 13 | 0.0001295 | 0.0001174 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.001212 | 0.0004209 | ln(x) | ShapiroWilk |
| Cobalt, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.0002039 | 0.0002391 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.7926 | 0.7578 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 1.38 | 0.9913 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 1.022 | 0.2606 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.989 | 0.3768 | sqrt(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 1.359 | 0.6332 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.8848 | 0.8092 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.8712 | 0.4788 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 1.013 | 0.404 | normal | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.6744 | 0.4294 | sqrt(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 1.159 | 0.468 | sqrt(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 1.749 | 0.4628 | x^3 | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.5081 | 0.4877 | sqrt(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 1.033 | 0.5854 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 1.212 | 0.9672 | ln(x) | ShapiroWilk |
| Combined Radium 226 + 228 (pCi/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.7571 | 0.6125 | x^(1/3) | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.9354 | 0.1531 | x^6 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.3192 | 0.02813 | x^5 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.2862 | 0.02364 | x^5 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.29 | 0.02517 | x^3 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.4177 | 0.03632 | normal | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.4723 | 0.1256 | sqrt(x) | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.2638 | 0.02329 | x^4 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.3292 | 0.03013 | x^2 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1604S | Yes | 1.63 | 9/10/2019 | NP | NaN | 13 | 0.9546 | 0.2155 | ln(x) | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.2069 | 0.02626 | x^2 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.1908 | 0.03475 | x^3 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.5385 | 0.06067 | x^4 | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.1869 | 0.02016 | sqrt(x) | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.1908 | 0.01847 | sqrt(x) | ShapiroWilk |
| Fluoride, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.4269 | 0.05779 | normal | ShapiroWilk |
| Lead, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.000048 | 0.00004474 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.00008862 | 0.0001166 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.0001459 | 0.0001206 | ln(x) | ShapiroWilk |

Outlier Analysis - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:15 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|---------------------------------|-----------------|------------|------------------------------|---------------------------------------|-----------|------------|-----------|-----------------|------------------|--------------|--------------------|
| Lead, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.0001518 | 0.0003727 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.000114 | 0.000118 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.0001002 | 0.00008456 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.000041 | 0.00003094 | x^(1/3) | ShapiroWilk |
| Lead, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.00004554 | 0.00003829 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.0001379 | 0.0002454 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.00006677 | 0.00007019 | x^(1/3) | ShapiroWilk |
| Lead, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.0001015 | 0.00006795 | x^(1/3) | ShapiroWilk |
| Lead, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.0003208 | 0.0006387 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.00007246 | 0.00006239 | x^(1/3) | ShapiroWilk |
| Lead, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.00006546 | 0.00004458 | ln(x) | ShapiroWilk |
| Lead, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.0002101 | 0.0003575 | ln(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.009183 | 0.005016 | sqrt(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.007605 | 0.005961 | x^(1/3) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.008055 | 0.004492 | sqrt(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.008369 | 0.003861 | x^(1/3) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.01093 | 0.00398 | x^2 | ShapiroWilk |
| Lithium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.008934 | 0.00503 | sqrt(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.00789 | 0.005569 | ln(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.009286 | 0.003975 | normal | ShapiroWilk |
| Lithium, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.01186 | 0.003329 | normal | ShapiroWilk |
| Lithium, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.006212 | 0.004167 | ln(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.008252 | 0.003642 | ln(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.01514 | 0.003575 | x^2 | ShapiroWilk |
| Lithium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.006589 | 0.005316 | ln(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.008004 | 0.003235 | ln(x) | ShapiroWilk |
| Lithium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.01132 | 0.002856 | normal | ShapiroWilk |
| Mercury, total (mg/L) | MW-1002 | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1602D | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1602I | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1603D | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1603I | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1603S | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1604D | n/a | n/a | n/a | NP | NaN | 12 | 0.00000475 | 8.7e-7 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1604I | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1604S | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1605D | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1605I | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1605S | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1606D | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1606I | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Mercury, total (mg/L) | MW-1606S | n/a | n/a | n/a | NP | NaN | 12 | 0.000005 | 3.6e-14 | unknown | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.005017 | 0.003184 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.003621 | 0.000441 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.002225 | 0.0002226 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.005045 | 0.0009801 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.008328 | 0.001194 | x^3 | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.00082 | 0.0007461 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.002963 | 0.0004425 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.002687 | 0.0002558 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1604S | Yes | 0.00479,0.001,0.00472 | 11/15/2016,6/26/2019,9/10/2019 | NP | NaN | 13 | 0.002628 | 0.001037 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1605D | Yes | 0.00765 | 6/7/2016 | NP | NaN | 13 | 0.002698 | 0.001533 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1605I | Yes | 0.005 | 6/25/2019 | NP | NaN | 13 | 0.001492 | 0.001065 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.001899 | 0.0003172 | x^2 | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1606D | Yes | 0.00382 | 6/7/2016 | NP | NaN | 13 | 0.002158 | 0.0005314 | ln(x) | ShapiroWilk |

Outlier Analysis - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:15 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|-------------------------------|----------------------|------------|-----------------------|-------------------------------------|-----------|------------|-----------|------------------|-------------------|----------------|--------------------|
| Molybdenum, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.001688 | 0.001066 | ln(x) | ShapiroWilk |
| Molybdenum, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.001546 | 0.001091 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 6.906 | 0.4689 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1600D (bg) | No | n/a | n/a | NP | NaN | 13 | 7.09 | 0.2748 | x^6 | ShapiroWilk |
| pH, field (SU) | MW-1600I (bg) | Yes | 9.29 | 7/17/2017 | NP | NaN | 12 | 7.357 | 0.6329 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1600S (bg) | Yes | 9.46 | 7/17/2017 | NP | NaN | 13 | 6.988 | 0.781 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1601D (bg) | No | n/a | n/a | NP | NaN | 13 | 7.063 | 0.3068 | x^6 | ShapiroWilk |
| pH, field (SU) | MW-1601I (bg) | Yes | 9.45 | 7/17/2017 | NP | NaN | 12 | 7.342 | 0.7042 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1601S (bg) | No | n/a | n/a | NP | NaN | 13 | 7.135 | 0.2669 | x^6 | ShapiroWilk |
| pH, field (SU) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 7.215 | 0.7266 | x^6 | ShapiroWilk |
| pH, field (SU) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 7.261 | 0.2235 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 7.159 | 0.194 | x^2 | ShapiroWilk |
| pH, field (SU) | MW-1603I | Yes | 9.78 | 7/17/2017 | NP | NaN | 13 | 7.548 | 0.7132 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1603S | Yes | 9.63 | 7/17/2017 | NP | NaN | 13 | 7.182 | 0.7937 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 7.201 | 0.1132 | x^6 | ShapiroWilk |
| pH, field (SU) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 7.402 | 0.1368 | x^6 | ShapiroWilk |
| pH, field (SU) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 7.435 | 0.1331 | sqrt(x) | ShapiroWilk |
| pH, field (SU) | MW-1605D | Yes | 9.51 | 7/18/2017 | NP | NaN | 13 | 7.308 | 0.6758 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 7.223 | 0.1523 | x^6 | ShapiroWilk |
| pH, field (SU) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 7.192 | 0.1511 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1606D | Yes | 5.85,8.37,7.96 | 7/19/2016,7/18/2017,6/6/2018 | NP | NaN | 13 | 7.234 | 0.5691 | x^2 | ShapiroWilk |
| pH, field (SU) | MW-1606I | Yes | 4.98,8.09,8.56 | 7/19/2016,6/6/2018,5/21/2019 | NP | NaN | 13 | 7.218 | 0.8139 | x^4 | ShapiroWilk |
| pH, field (SU) | MW-1606S | Yes | 7.81,7.85 | 6/6/2018,5/21/2019 | NP | NaN | 13 | 7.095 | 0.3457 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1701D (bg) | No | n/a | n/a | NP | NaN | 9 | 7.326 | 0.2305 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1701I (bg) | No | n/a | n/a | NP | NaN | 9 | 7.481 | 0.2342 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1701S (bg) | No | n/a | n/a | NP | NaN | 9 | 7.267 | 0.3283 | x^4 | ShapiroWilk |
| pH, field (SU) | MW-1702D (bg) | No | n/a | n/a | NP | NaN | 9 | 7.343 | 0.4858 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1702I (bg) | No | n/a | n/a | NP | NaN | 9 | 7.182 | 0.4051 | ln(x) | ShapiroWilk |
| pH, field (SU) | MW-1702S (bg) | No | n/a | n/a | NP | NaN | 9 | 7.036 | 0.4962 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.00007769 | 0.00001787 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.00006615 | 0.00003203 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.0001092 | 0.00007686 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.0001538 | 0.00008392 | normal | ShapiroWilk |
| Selenium, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.0001485 | 0.00006914 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.0002754 | 0.0004083 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.0001562 | 0.00007018 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.00007923 | 0.000029 | sqrt(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.00009769 | 0.00006126 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.0001538 | 0.000074 | sqrt(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.0001323 | 0.00007801 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.0013 | 0.001307 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.0001577 | 0.00006735 | ln(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1606I | Yes | 0.00003 | 3/6/2017 | NP | NaN | 13 | 0.0001677 | 0.00006313 | sqrt(x) | ShapiroWilk |
| Selenium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.003754 | 0.001251 | sqrt(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1002 | No | n/a | n/a | NP | NaN | 13 | 0.0001408 | 0.000205 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1602D | No | n/a | n/a | NP | NaN | 13 | 0.0003582 | 0.0002218 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1602I | No | n/a | n/a | NP | NaN | 13 | 0.0001723 | 0.0002276 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1603D | No | n/a | n/a | NP | NaN | 13 | 0.0002868 | 0.00024 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1603I | No | n/a | n/a | NP | NaN | 13 | 0.0001438 | 0.0002032 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1603S | No | n/a | n/a | NP | NaN | 13 | 0.0001435 | 0.0002043 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1604D | No | n/a | n/a | NP | NaN | 13 | 0.0003596 | 0.00022 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1604I | No | n/a | n/a | NP | NaN | 13 | 0.0001385 | 0.000207 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1604S | No | n/a | n/a | NP | NaN | 13 | 0.0001472 | 0.0002022 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1605D | No | n/a | n/a | NP | NaN | 13 | 0.0003915 | 0.0002063 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1605I | No | n/a | n/a | NP | NaN | 13 | 0.0001518 | 0.0002029 | ln(x) | ShapiroWilk |

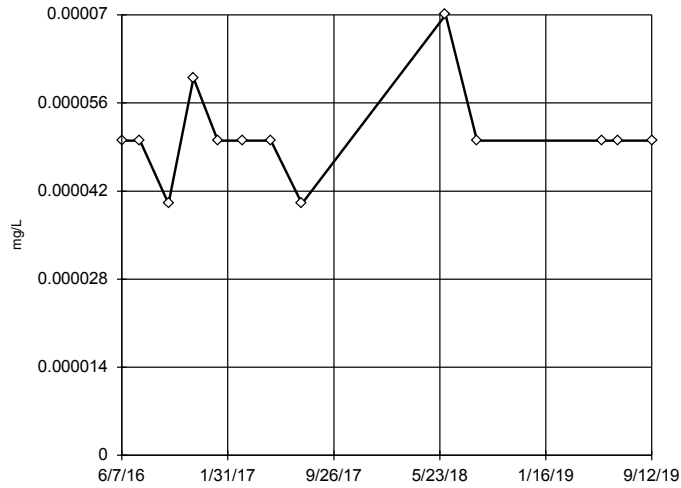
Outlier Analysis - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/5/2019, 10:15 AM

| Constituent | Well | Outlier | Value(s) | Date(s) | Method | Alpha | N | Mean | Std. Dev. | Distribution | Normality Test |
|------------------------|----------|---------|----------|---------|--------|-------|----|-----------|-----------|--------------|----------------|
| Thallium, total (mg/L) | MW-1605S | No | n/a | n/a | NP | NaN | 13 | 0.0001108 | 0.0001741 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1606D | No | n/a | n/a | NP | NaN | 13 | 0.0003634 | 0.0002146 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1606I | No | n/a | n/a | NP | NaN | 13 | 0.0001495 | 0.0002003 | ln(x) | ShapiroWilk |
| Thallium, total (mg/L) | MW-1606S | No | n/a | n/a | NP | NaN | 13 | 0.0001745 | 0.0002266 | ln(x) | ShapiroWilk |

Tukey's Outlier Screening

MW-1002

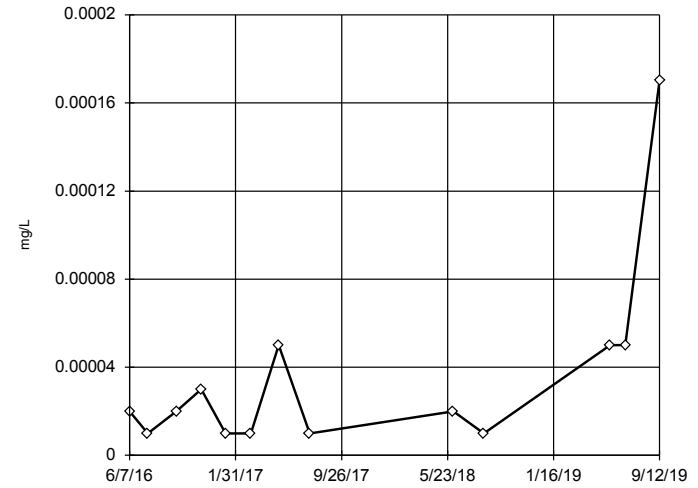


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602D

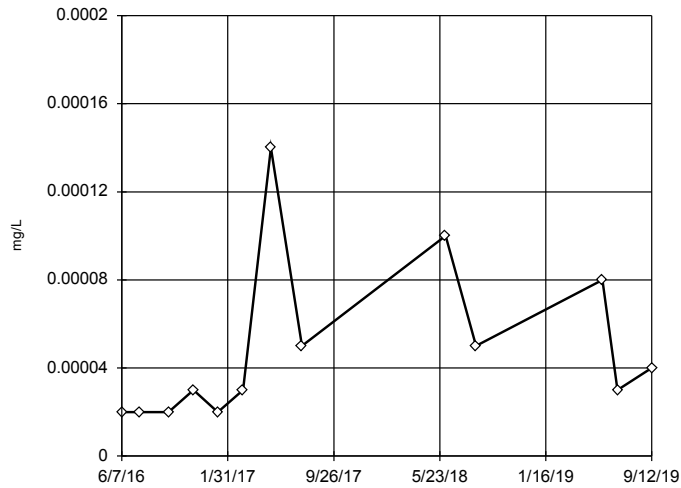


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.00625, low cutoff = 8.0e-8, based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602I

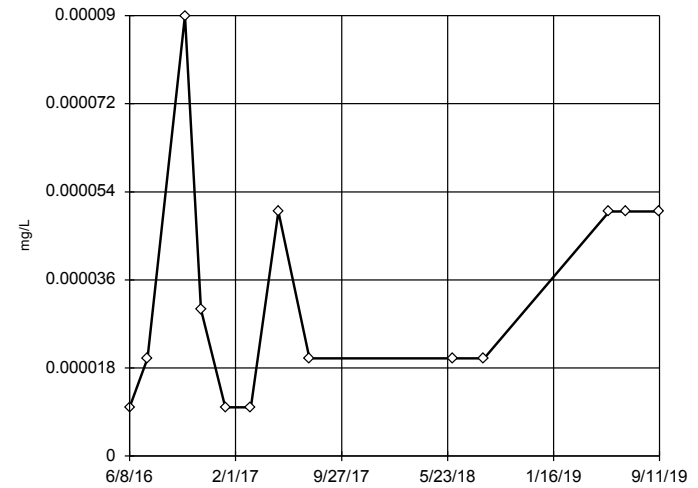


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.002, low cutoff = 6.3e-7, based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603D

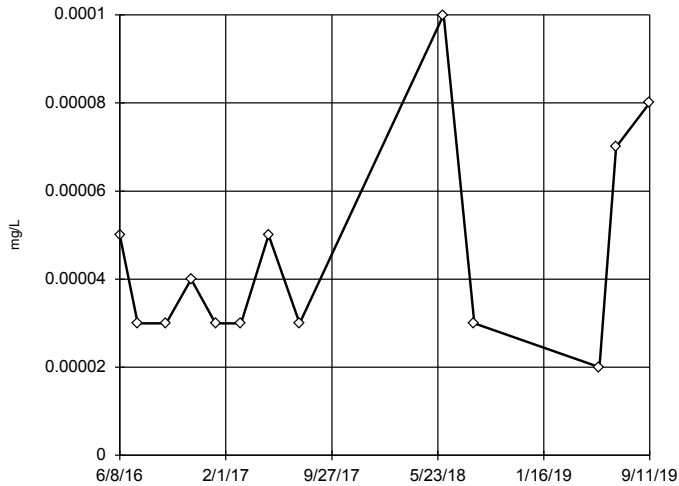


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.00221, low cutoff = 3.2e-7, based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

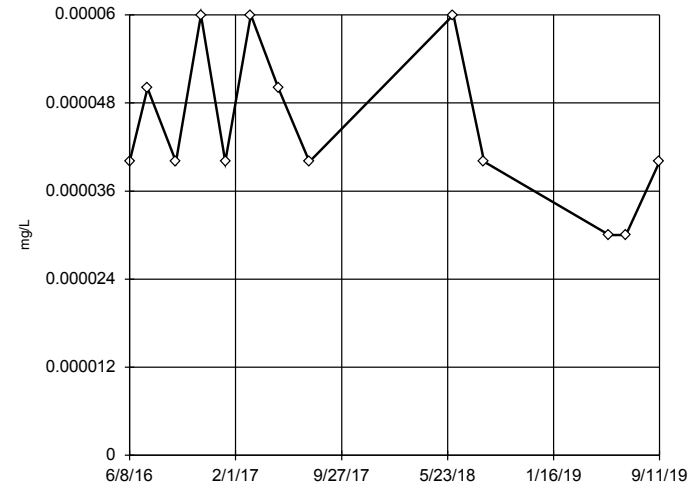


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0004537,
 low cutoff = 0.00003912,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S

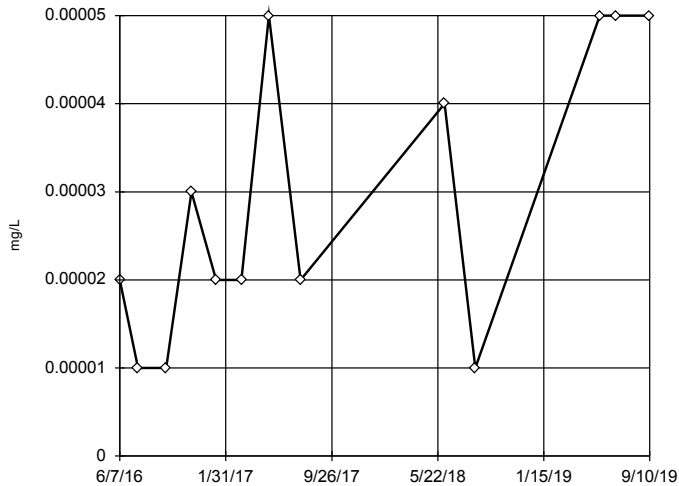


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0001406,
 low cutoff = 0.00001558,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D

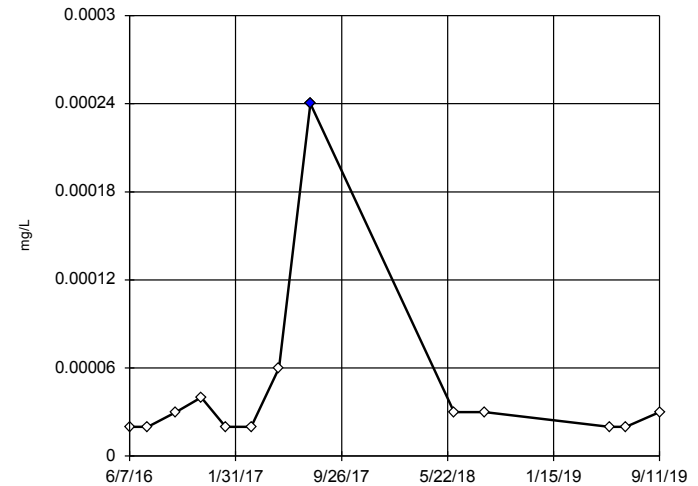


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0004106,
 low cutoff = -0.00002271,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

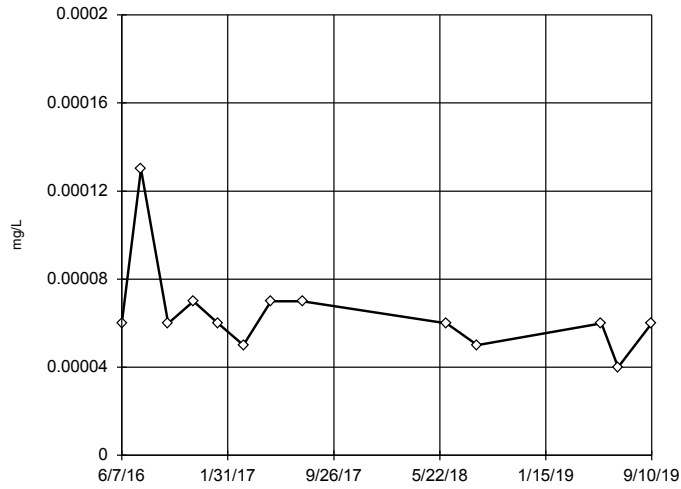
MW-1604I



n = 13
 Outlier is drawn as solid.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.00018,
 low cutoff = 0.000003849,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

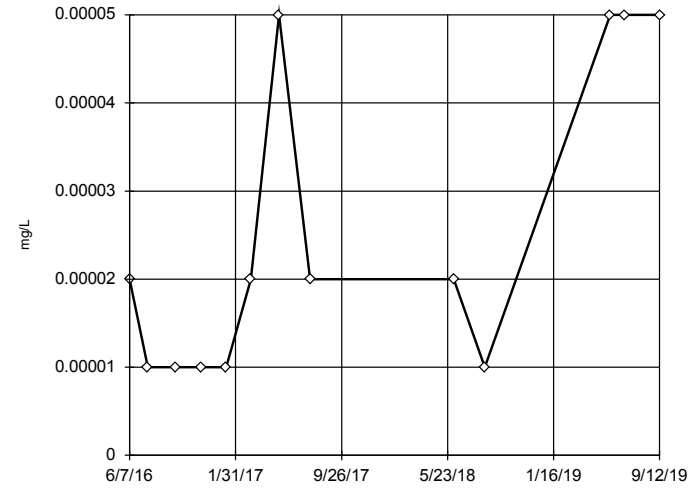
Tukey's Outlier Screening MW-1604S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0001461,
 low cutoff = 0.00002624,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

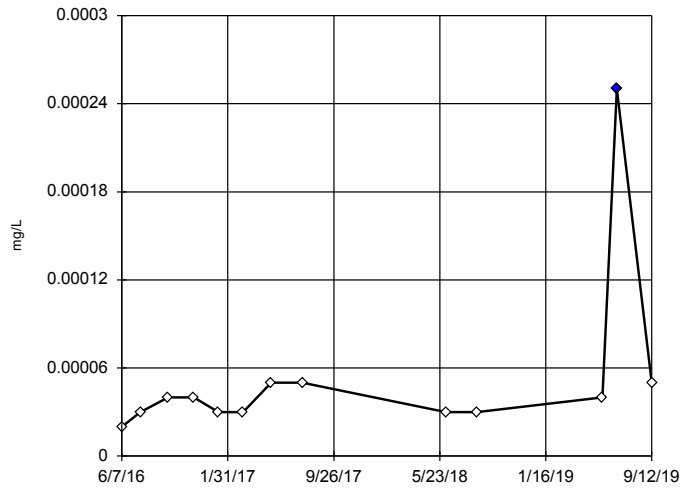
Tukey's Outlier Screening MW-1605D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.00625,
 low cutoff = 8.0e-8,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

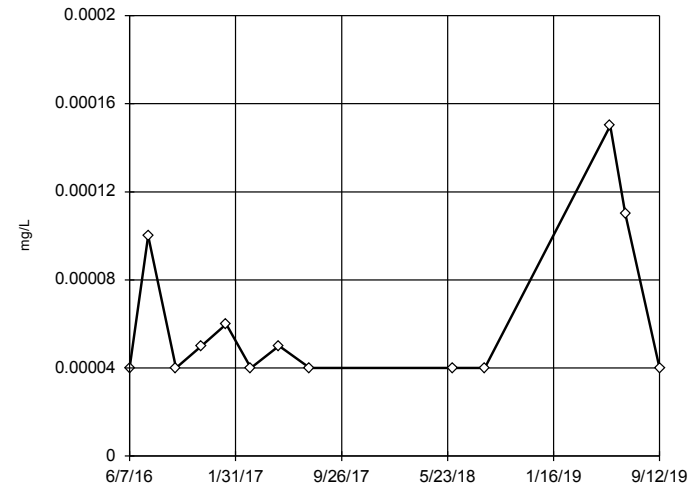
Tukey's Outlier Screening MW-1605I



n = 13
 Outlier is drawn as solid.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0002315,
 low cutoff = 0.00000648,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1605S

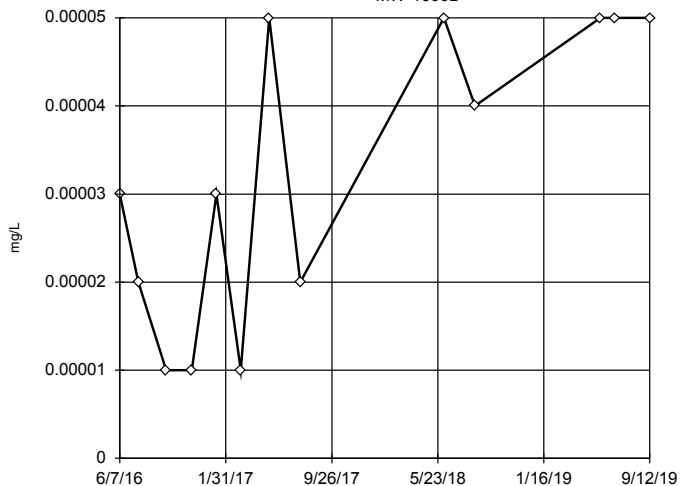


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0005625,
 low cutoff = 0.000005508,
 based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606D

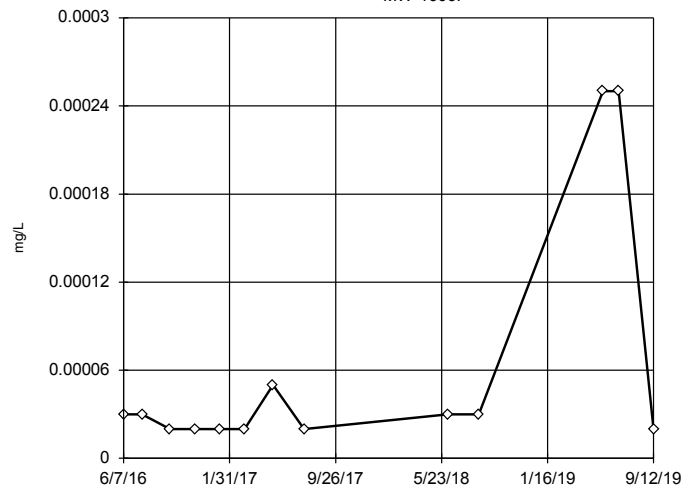


n = 13
 No outliers found. Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 0.000155, low cutoff = -0.00009, based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606I

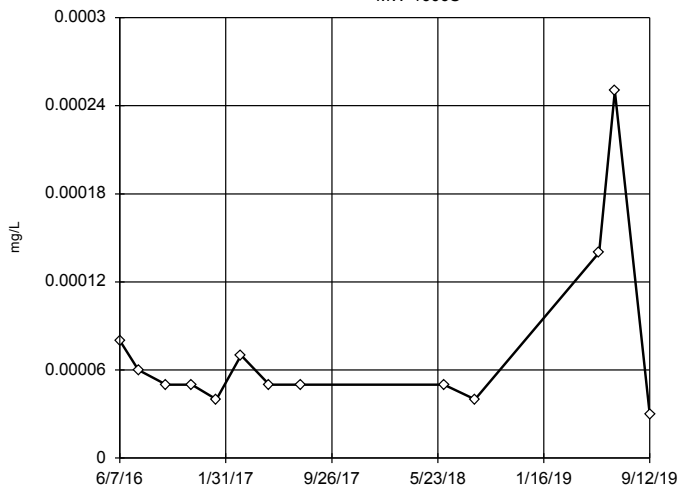


n = 13
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0002813, low cutoff = 0.00002754, based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606S

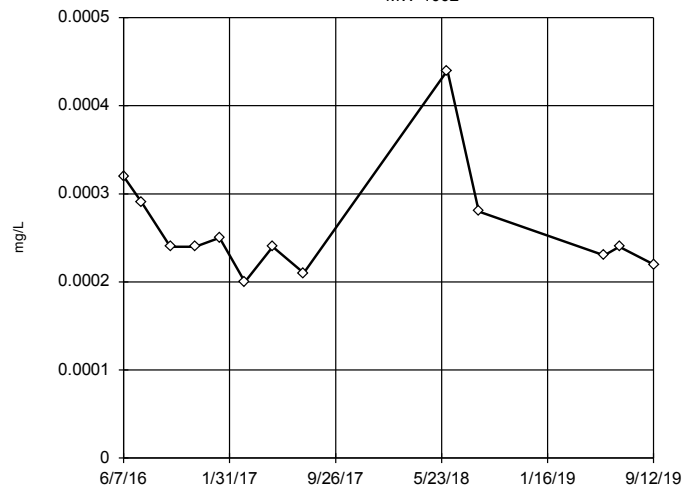


n = 13
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0003506, low cutoff = 0.00009545, based on IQR multiplier of 3.

Constituent: Antimony, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

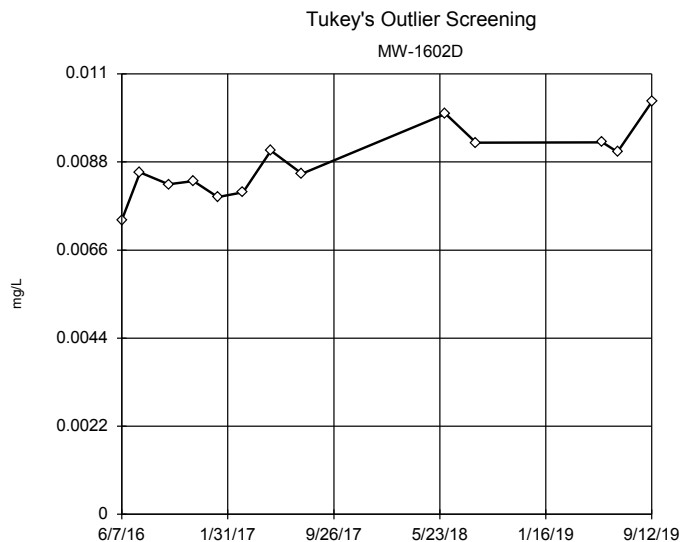
Tukey's Outlier Screening

MW-1002



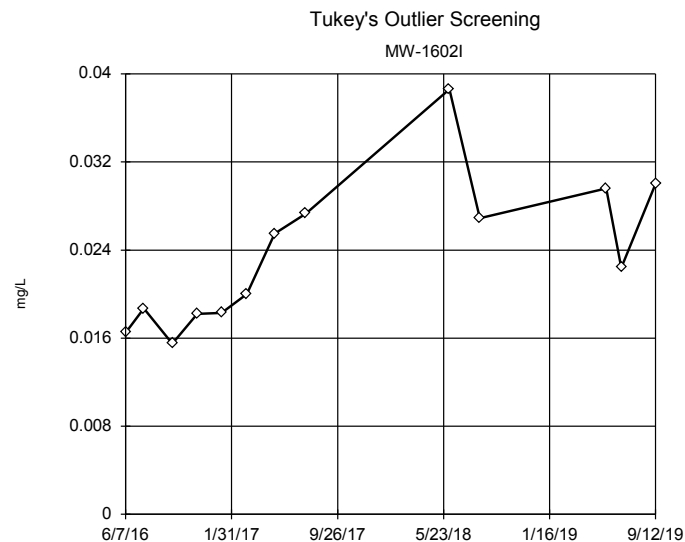
n = 13
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0005793, low cutoff = 0.0001107, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP



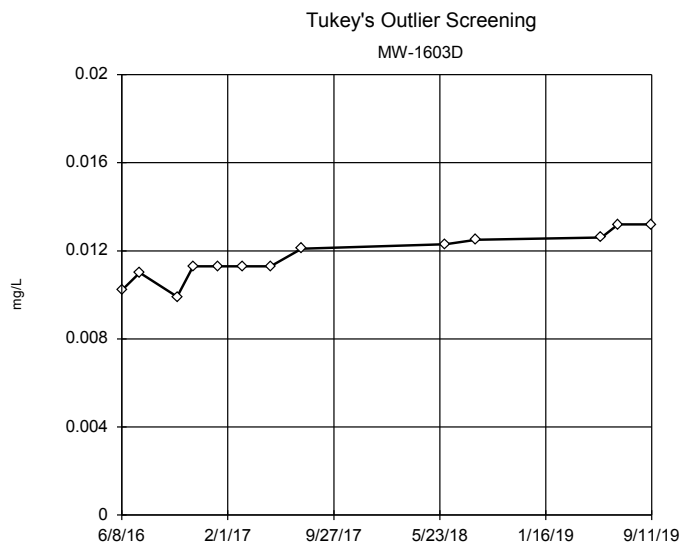
n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.01378,
 low cutoff = 0.005483,
 based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP



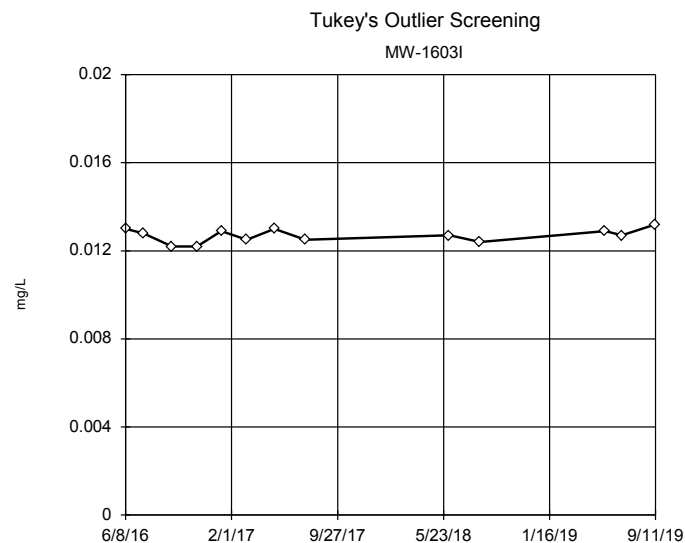
n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.1074,
 low cutoff = 0.004829,
 based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.01603,
 low cutoff = 0.004986,
 based on IQR multiplier of 3.

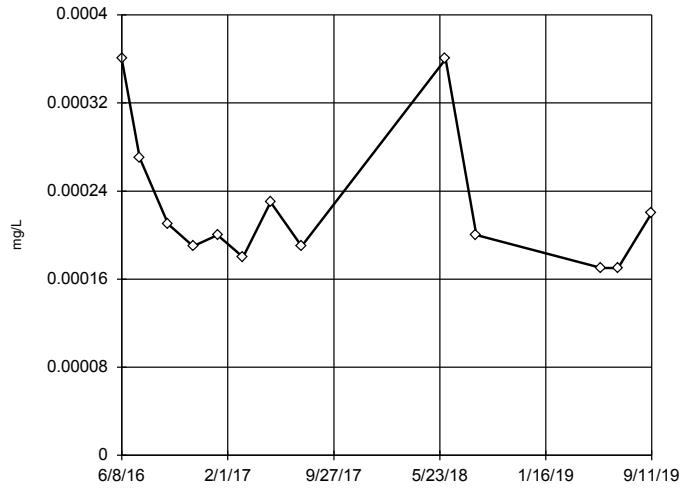
Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were x^6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.01405,
 low cutoff = 0.009526,
 based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

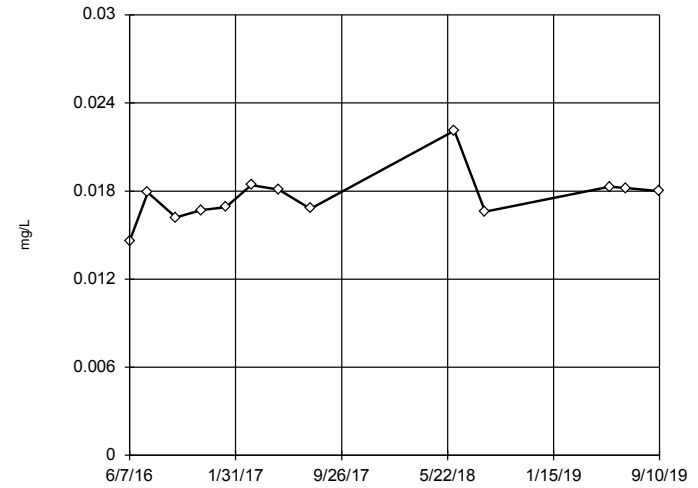
Tukey's Outlier Screening
MW-1603S



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.0006097, low cutoff = 0.00007558, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

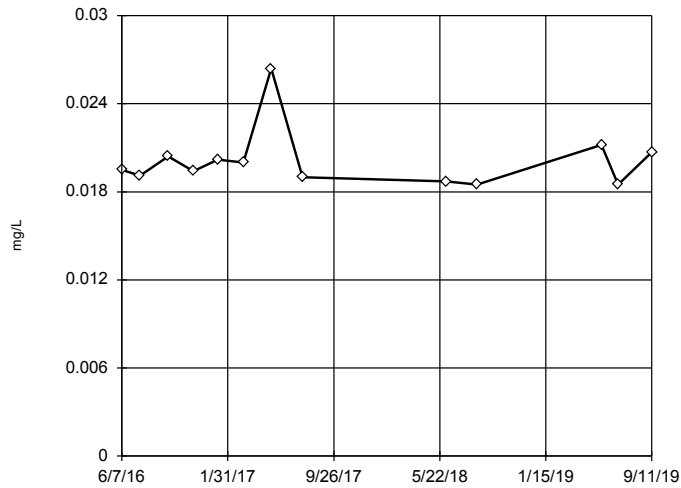
Tukey's Outlier Screening
MW-1604D



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.02403, low cutoff = 0.01264, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

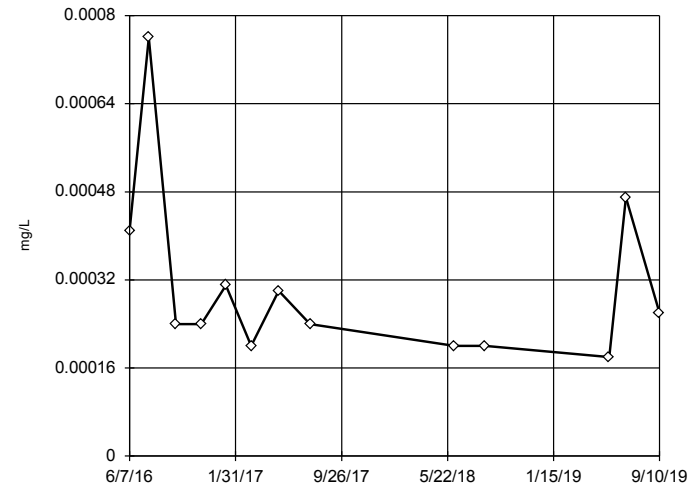
Tukey's Outlier Screening
MW-1604I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.02663, low cutoff = 0.01455, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1604S

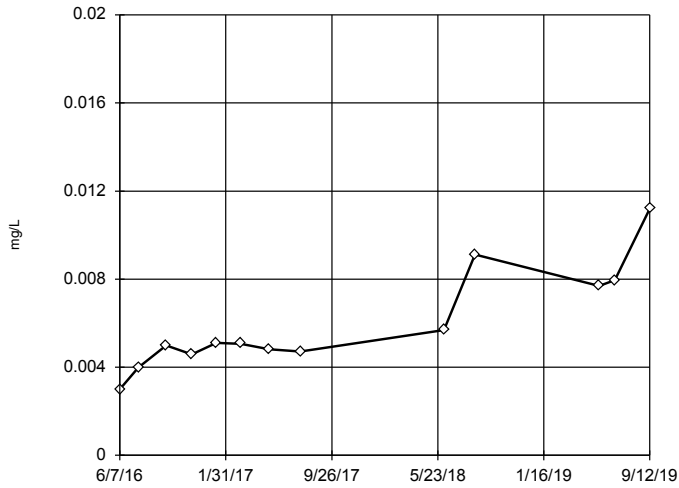


n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.000219, low cutoff = 0.00003531, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:08 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606I

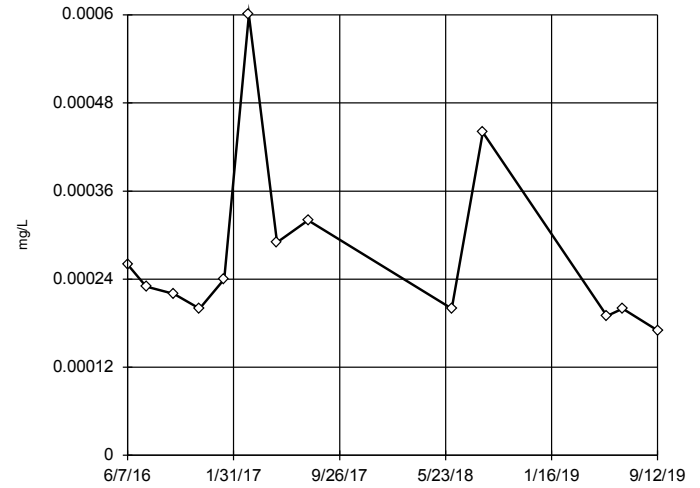


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.03716, low cutoff = 0.0009801, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606S

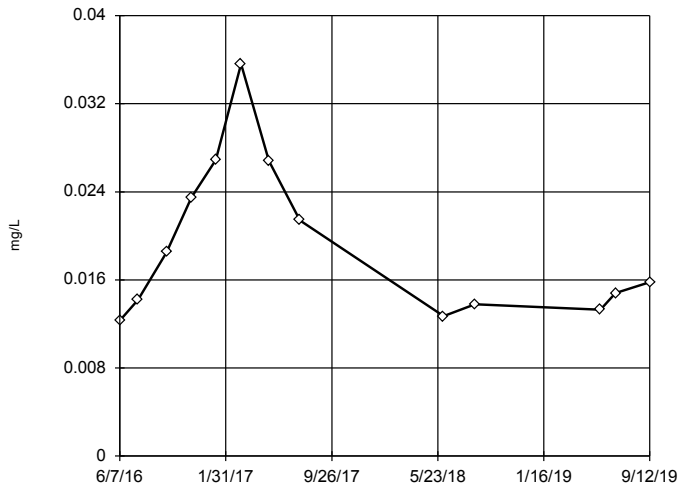


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001076, low cutoff = 0.0000566, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1002

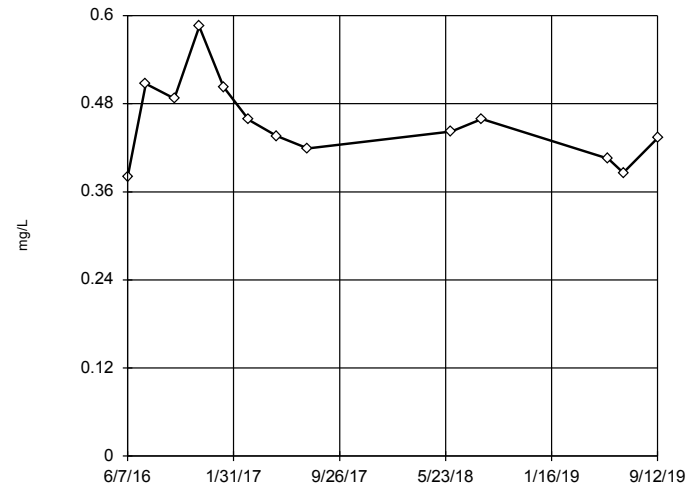


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.1595, low cutoff = 0.002131, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602D

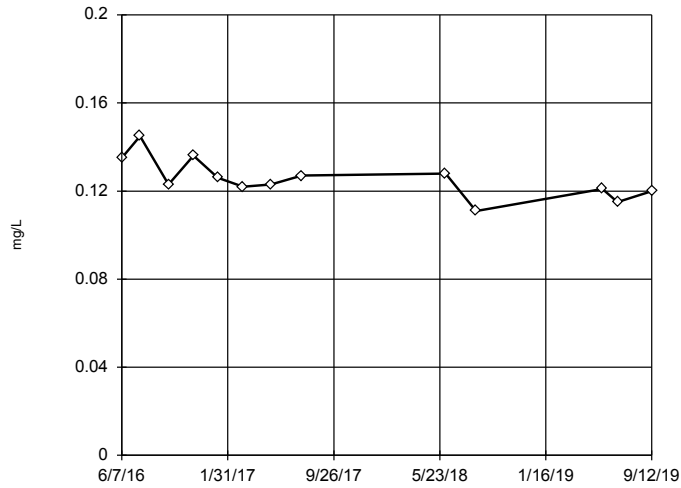


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.8584, low cutoff = 0.2375, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602I



n = 13

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

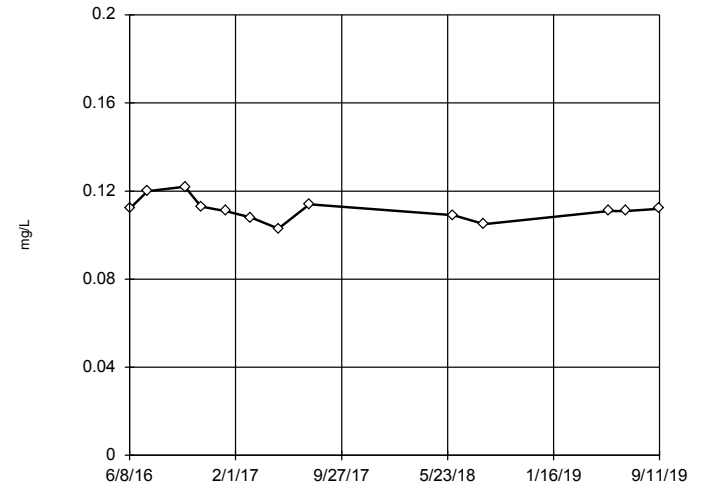
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1707, low cutoff = 0.09281, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603D



n = 13

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

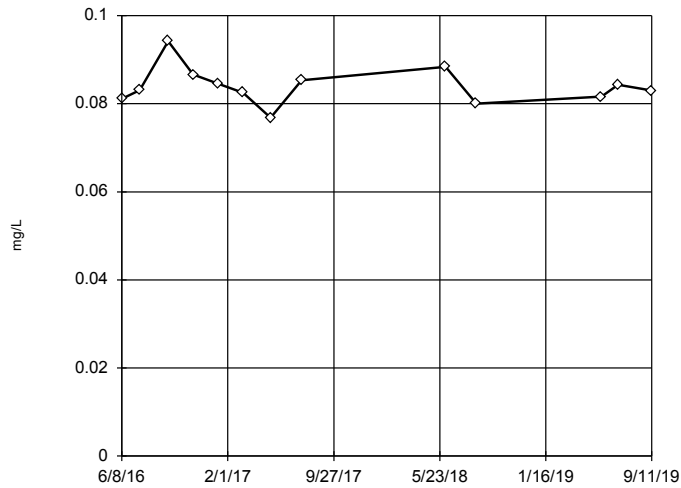
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1299, low cutoff = 0.09478, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I



n = 13

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

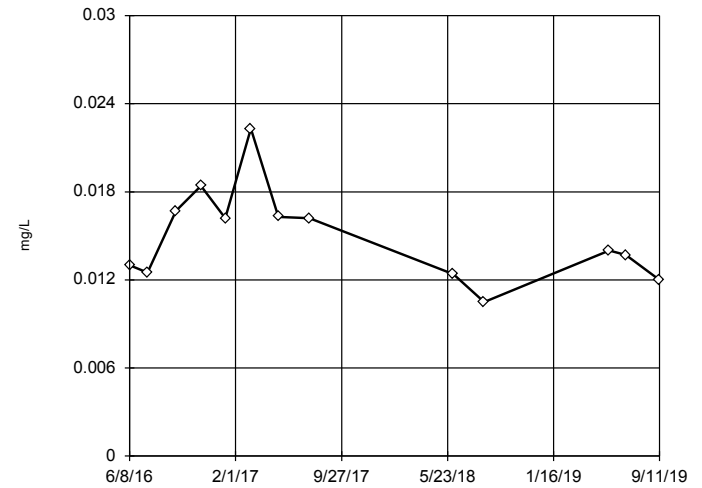
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1014, low cutoff = 0.06898, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S



n = 13

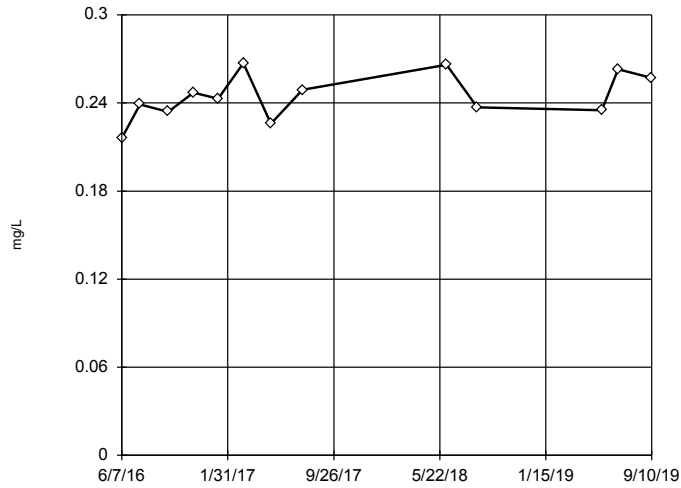
No outliers found. Tukey's method selected by user.

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

High cutoff = 0.0384, low cutoff = 0.005349, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

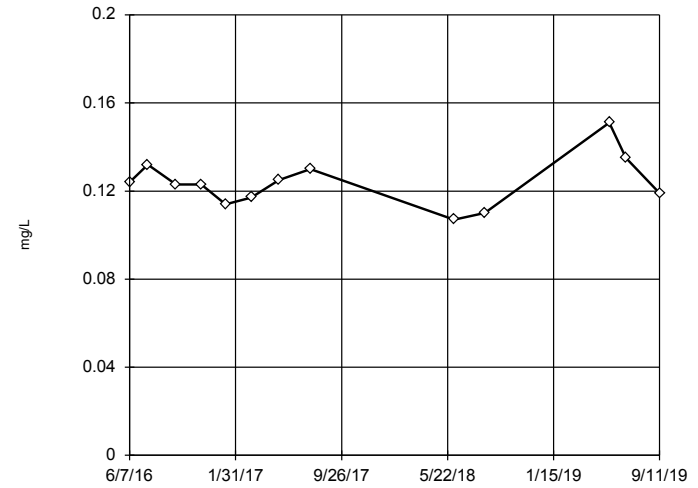
Tukey's Outlier Screening MW-1604D



n = 13
No outliers found.
Tukey's method selected by user.
Data were cube root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.3474,
low cutoff = 0.1681, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

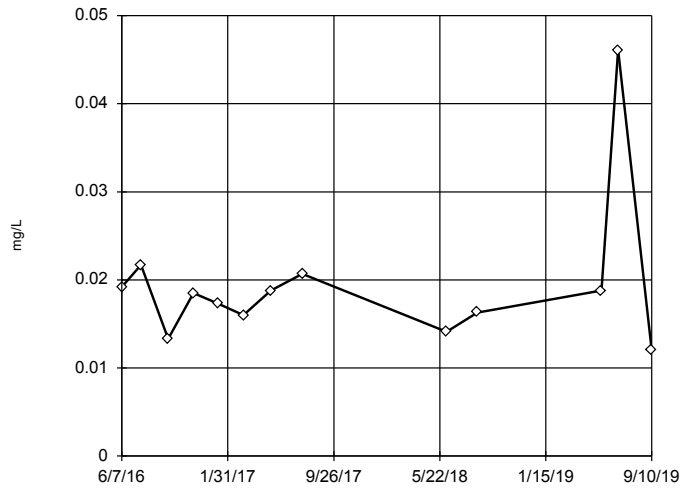
Tukey's Outlier Screening MW-1604I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.1912,
low cutoff = 0.07914, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

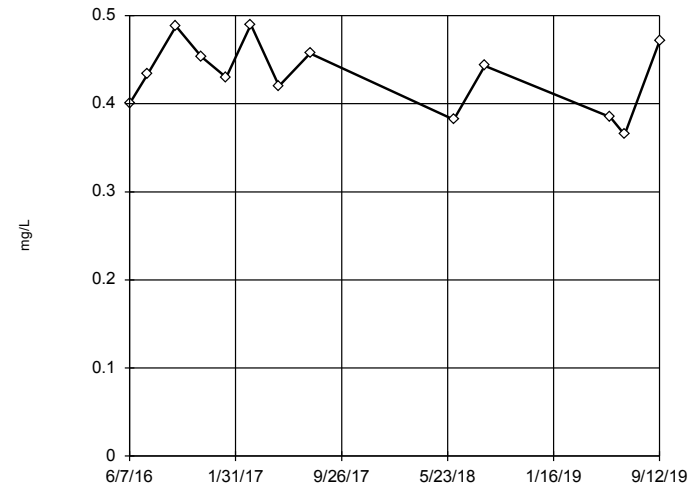
Tukey's Outlier Screening MW-1604S



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.04662,
low cutoff = 0.006423, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1605D

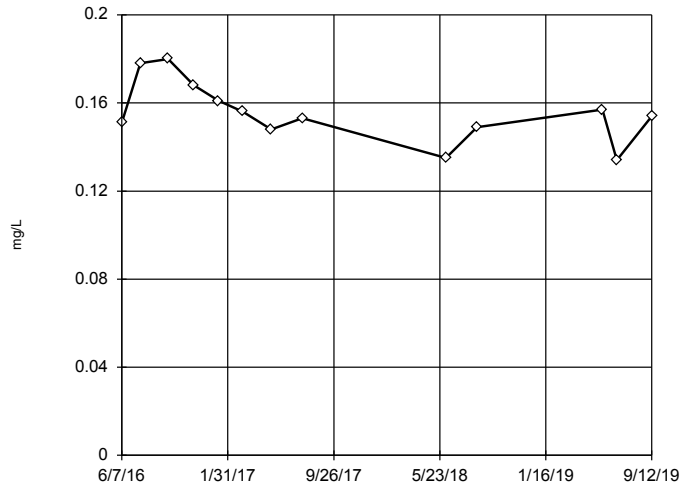


n = 13
No outliers found.
Tukey's method selected by user.
Data were square transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.6317,
low cutoff = 0.172, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605I

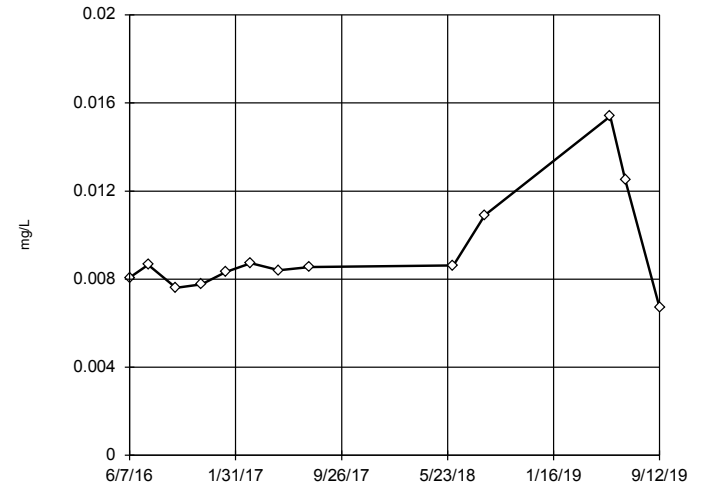


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.2234,
 low cutoff = 0.1093, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605S

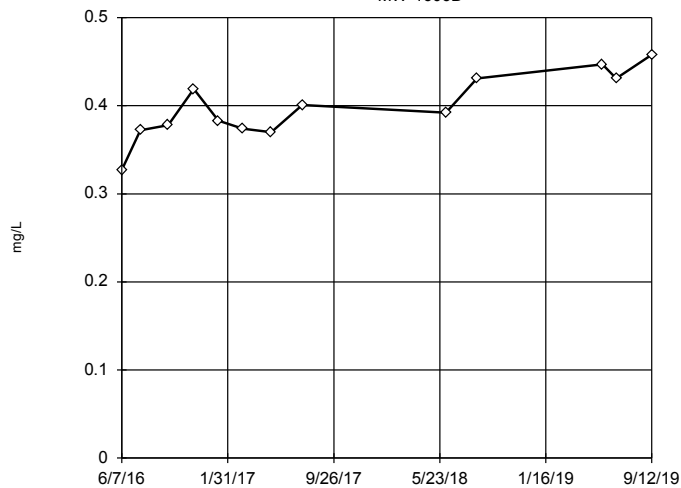


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.01823,
 low cutoff = 0.004232, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606D

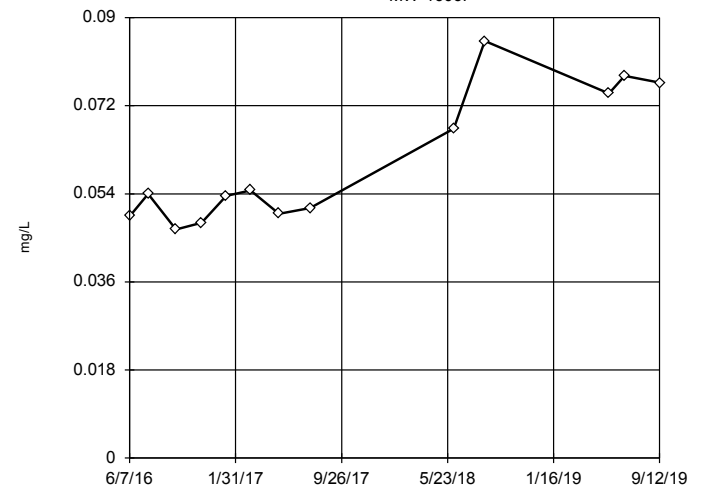


n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality, analysis run on raw data.
 High cutoff = 0.605, low cutoff = 0.199, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606I

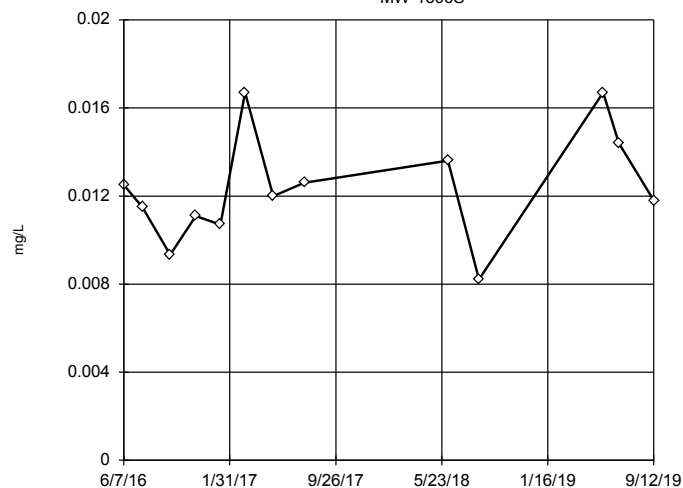


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.2668,
 low cutoff = 0.01407, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606S



n = 13

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

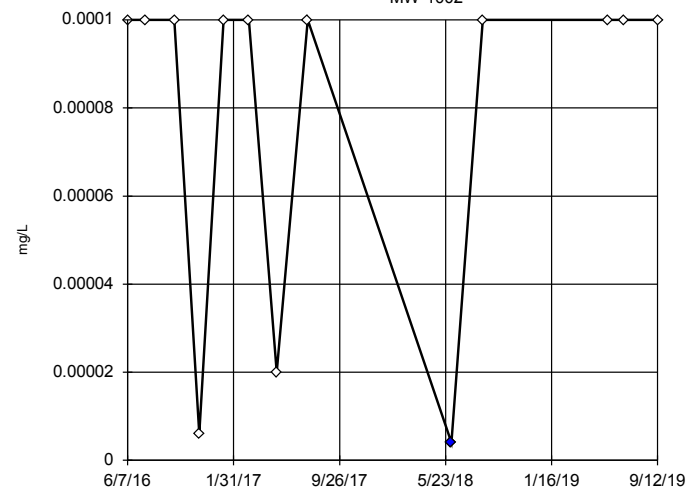
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.02963, low cutoff = 0.005147, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1002



n = 13

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

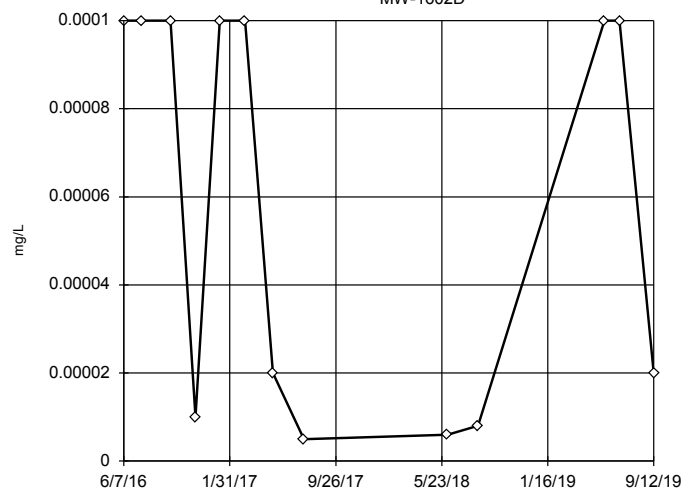
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.001118, low cutoff = 0.000004, based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602D



n = 13

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

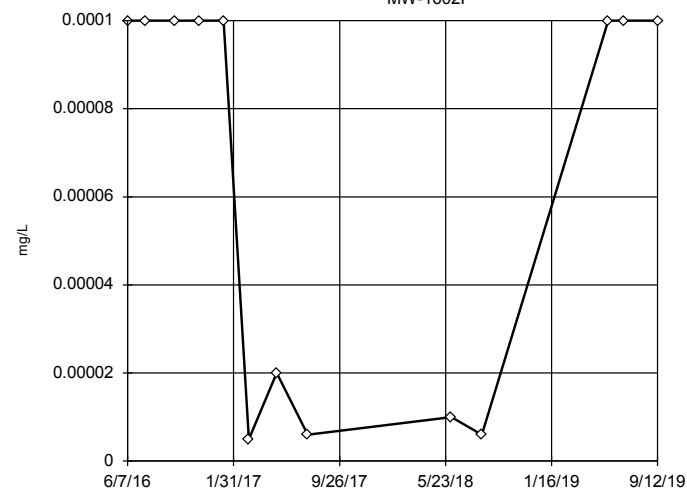
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1398, low cutoff = 6.4e-9, based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602I



n = 13

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

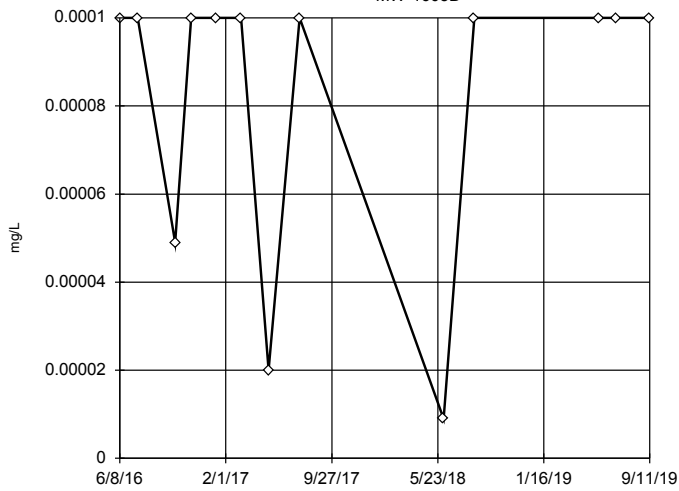
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2152, low cutoff = 3.6e-9, based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603D

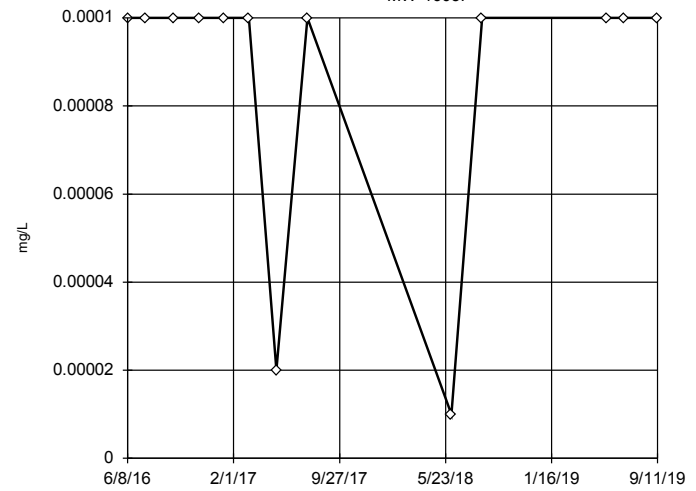


n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 0.0001765, low cutoff = -0.000002, based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

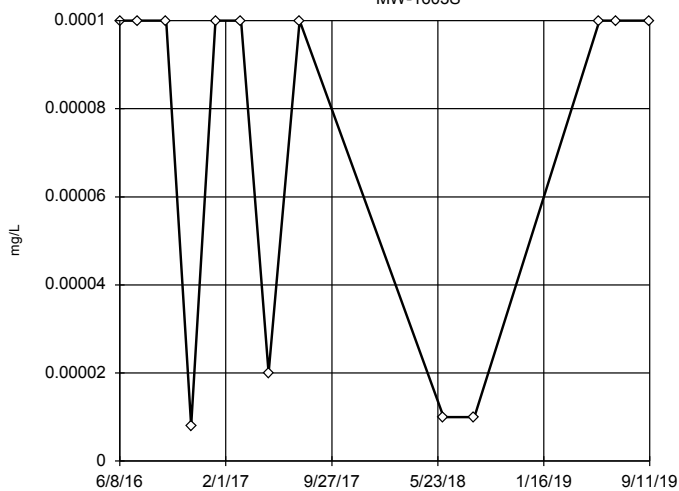


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S

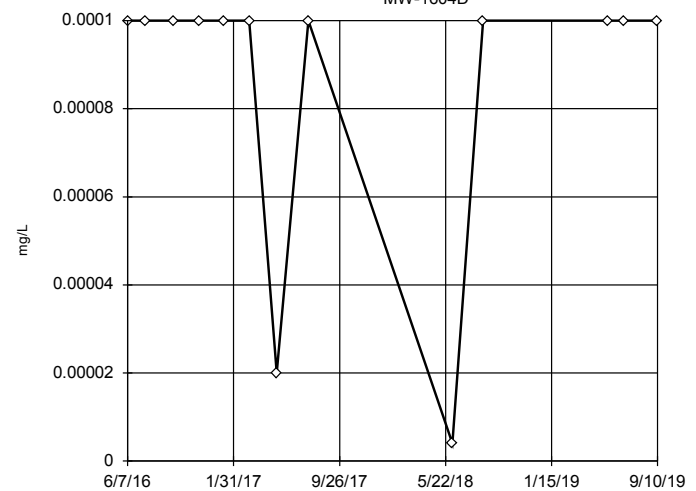


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.03536, low cutoff = 4.0e-8, based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D

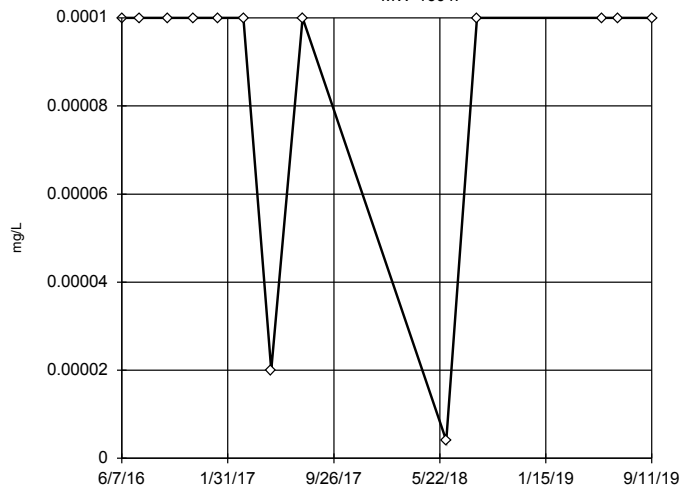


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604I

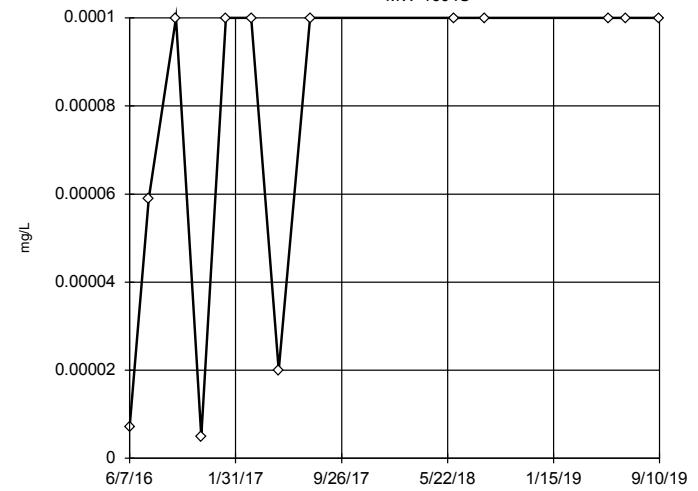


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S

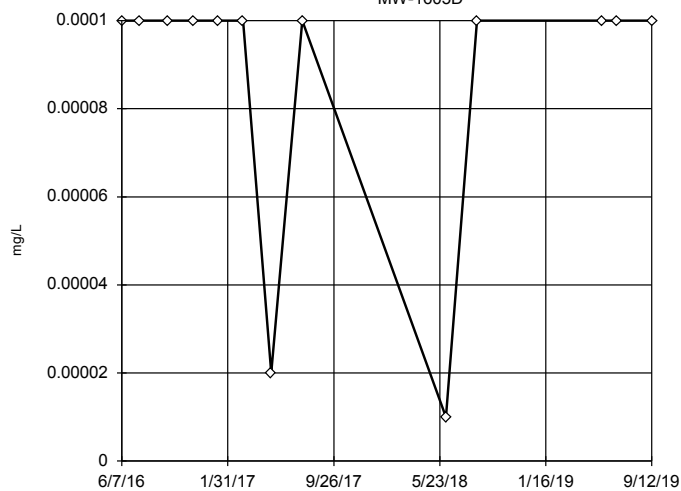


n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 0.0002815,
 low cutoff = -0.000142,
 based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605D

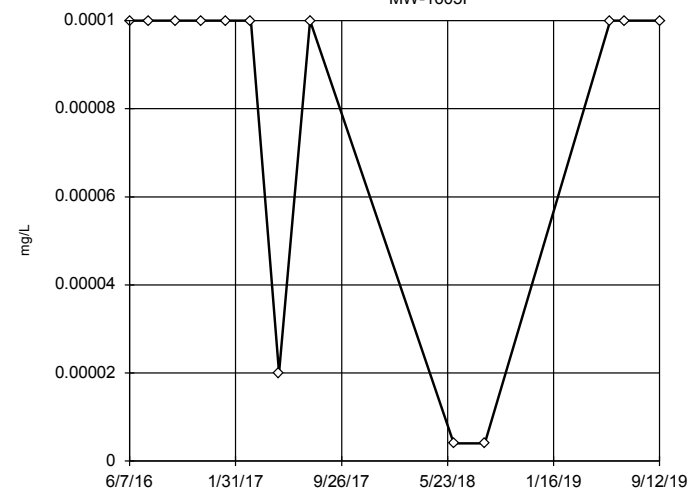


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605I

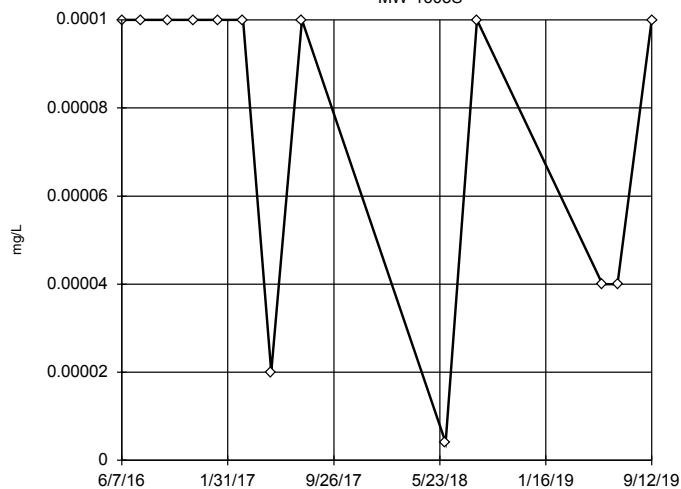


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0004274,
 low cutoff = 4.9e-7,
 based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605S

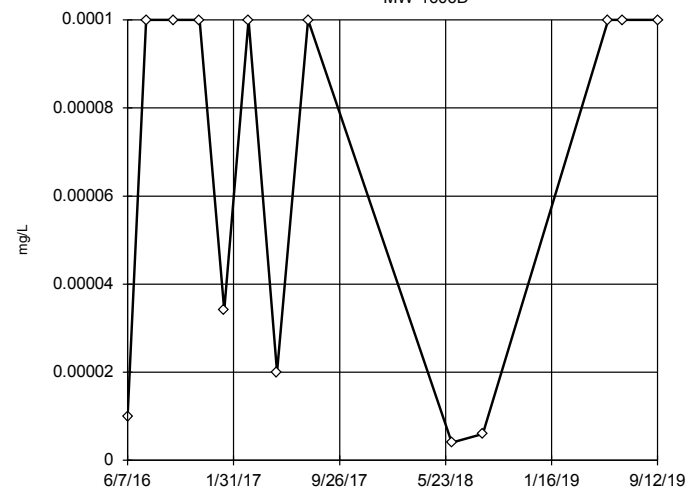


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0004421,
 low cutoff = -0.0002211,
 based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606D

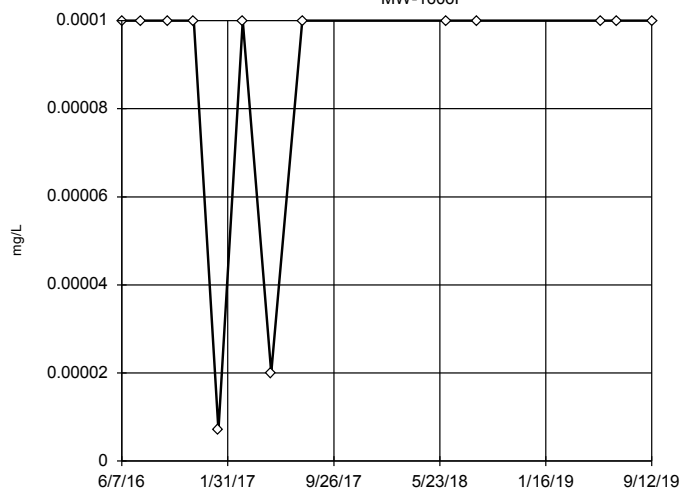


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.03536,
 low cutoff = 4.0e-8,
 based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606I

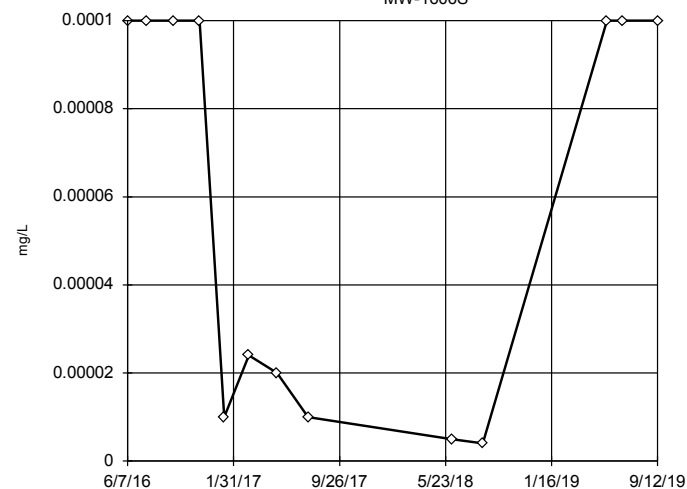


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

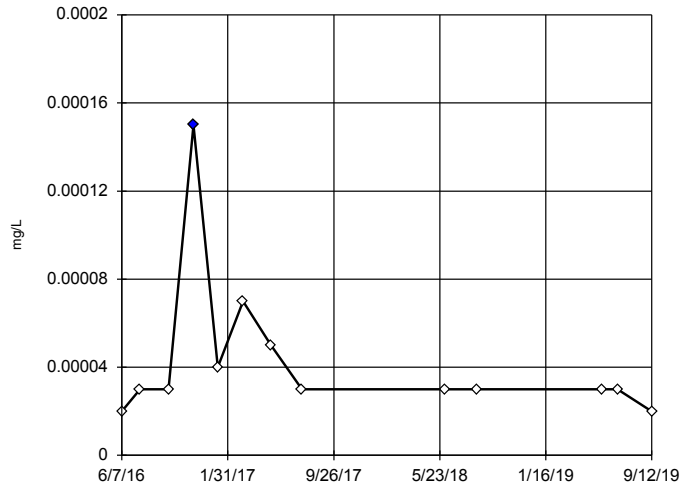
MW-1606S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.1,
 low cutoff = 1.0e-8,
 based on IQR multiplier of 3.

Constituent: Beryllium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

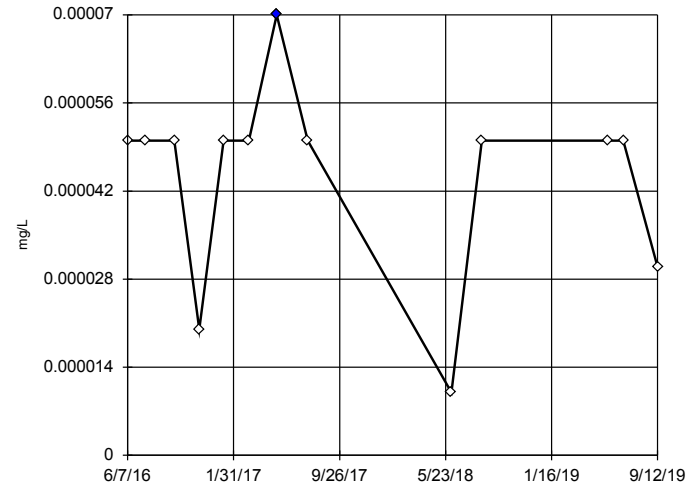
Tukey's Outlier Screening
MW-1002



n = 13
Outlier is drawn as solid. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.0001481, low cutoff = 0.000009056, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

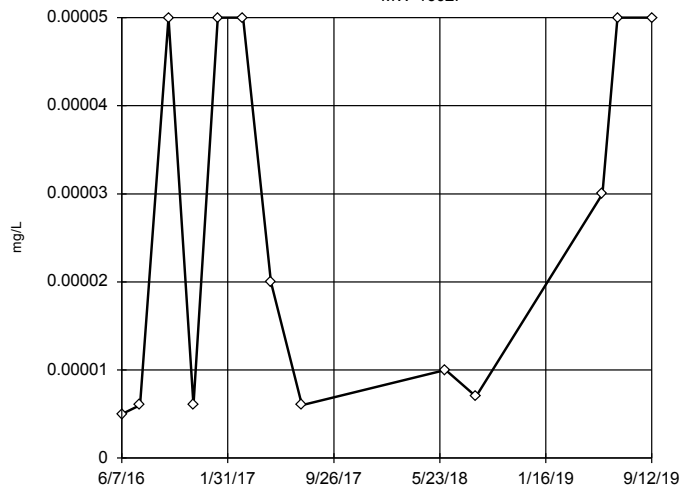
Tukey's Outlier Screening
MW-1602D



n = 13
Outlier is drawn as solid. Tukey's method selected by user.
Data were square transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.00007, low cutoff = -0.00002646, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

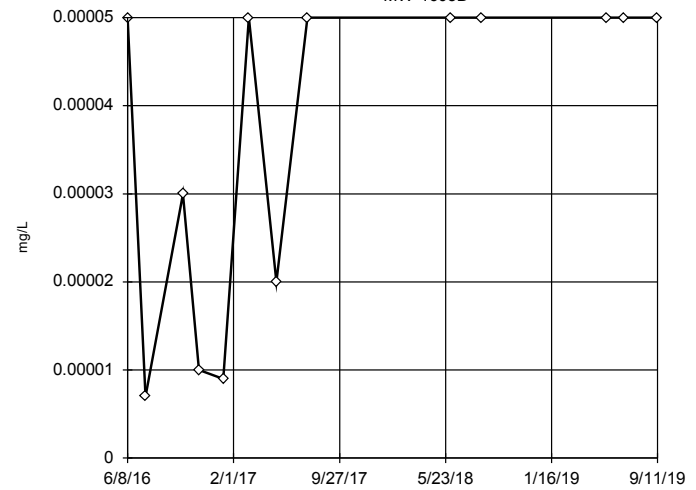
Tukey's Outlier Screening
MW-1602I



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.02894, low cutoff = 1.0e-8, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1603D

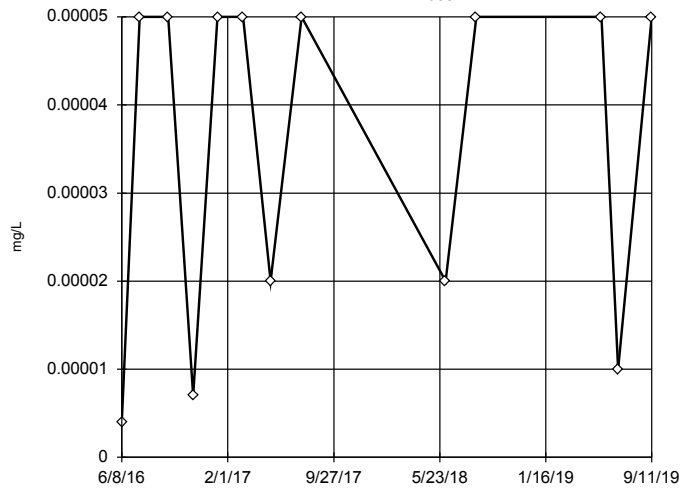


n = 13
No outliers found. Tukey's method selected by user.
Data were cube root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.0004106, low cutoff = -0.00002271, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

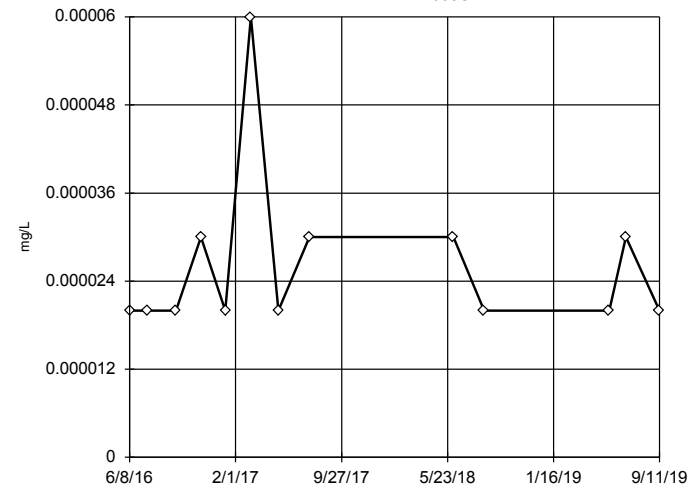


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0004106,
 low cutoff = -0.00002271,
 based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S

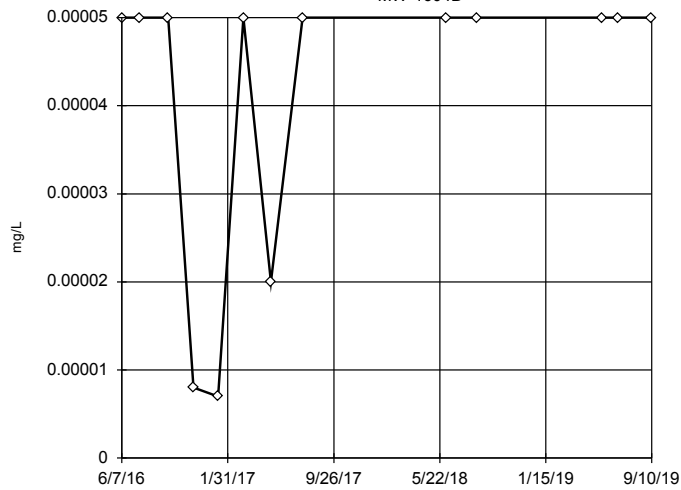


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0001013,
 low cutoff = 0.00005926,
 based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D

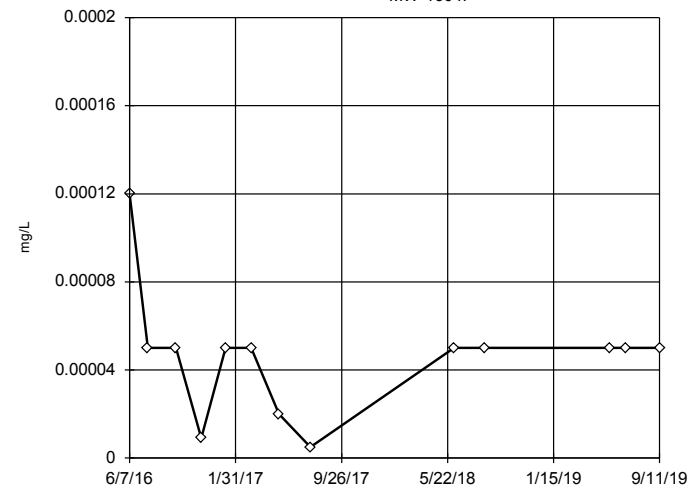


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0001203,
 low cutoff = 0.000003509,
 based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

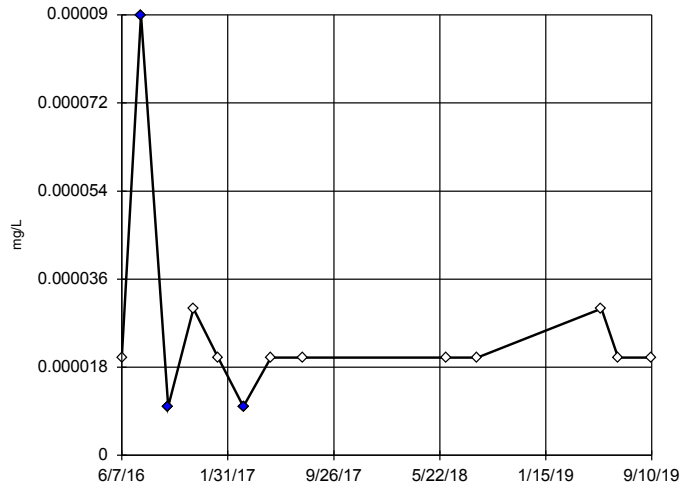
MW-1604I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0001203,
 low cutoff = 0.000003509,
 based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

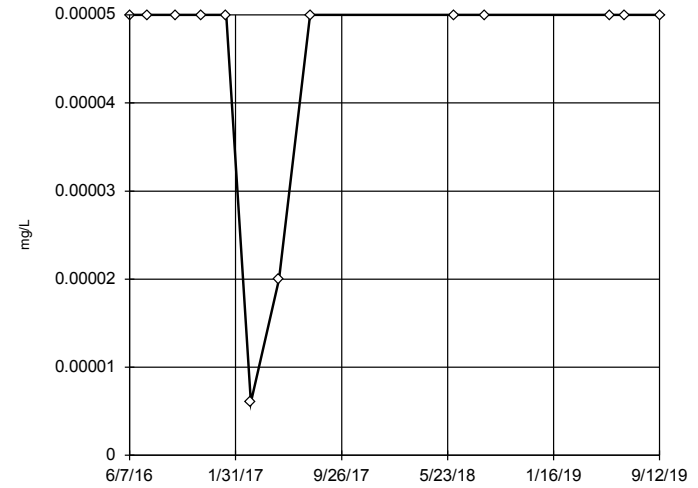
Tukey's Outlier Screening
MW-1604S



n = 13
Outliers are drawn as solid. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.000045, low cutoff = 0.00001089, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

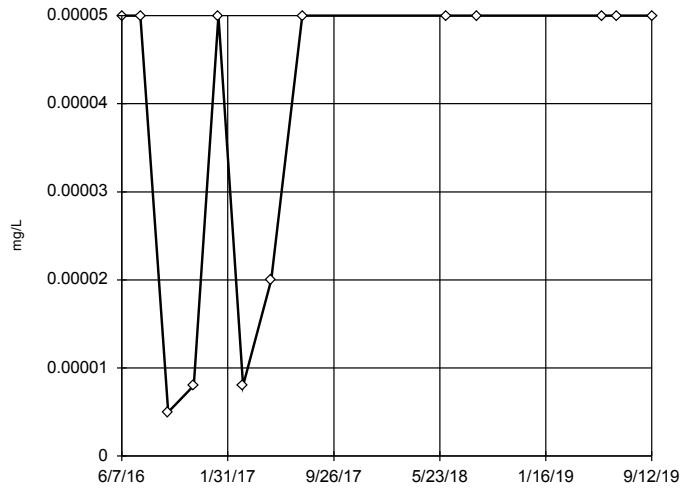
Tukey's Outlier Screening
MW-1605D



n = 13
No outliers found. Tukey's method selected by user.
Ladder of Powers transformations did not improve normality; analysis run on raw data.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

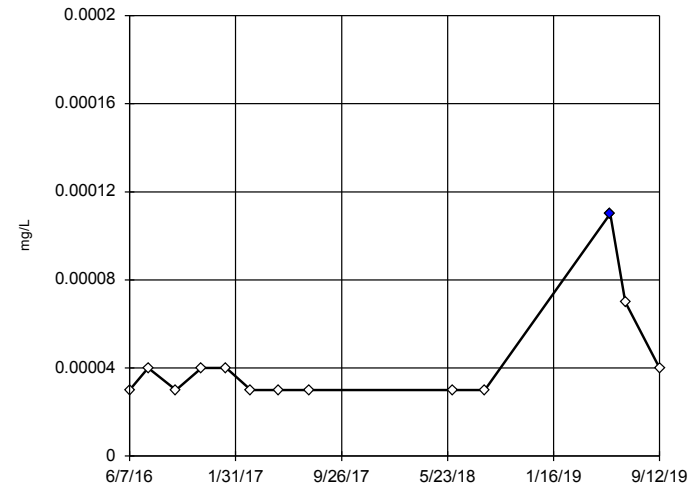
Tukey's Outlier Screening
MW-1605I



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.003088, low cutoff = 2.0e-7, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1605S

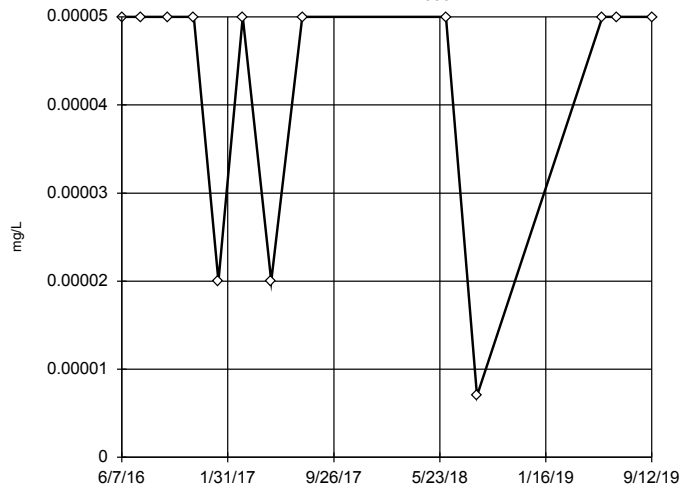


n = 13
Outlier is drawn as solid. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.00009481, low cutoff = 0.00001266, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606D

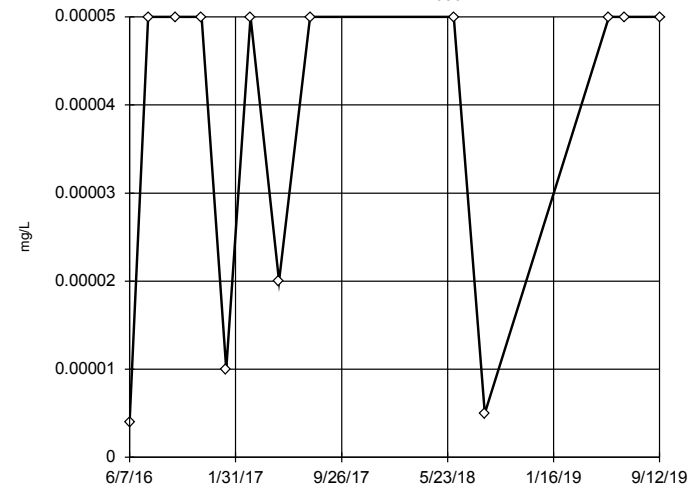


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0001203, low cutoff = 0.000003509, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606I

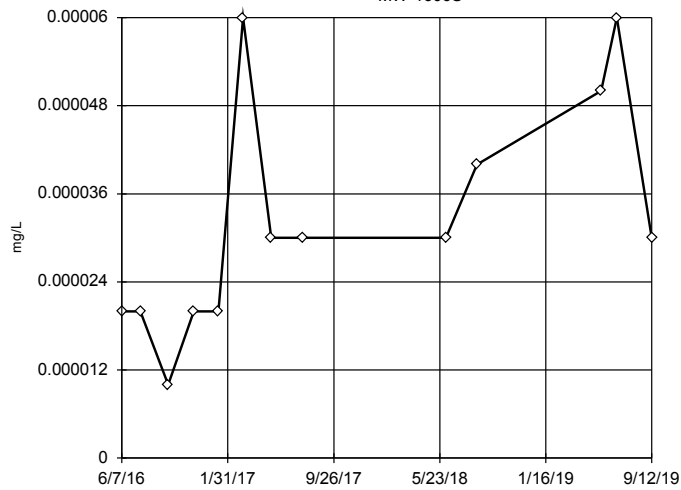


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0004106, low cutoff = -0.00002271, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606S

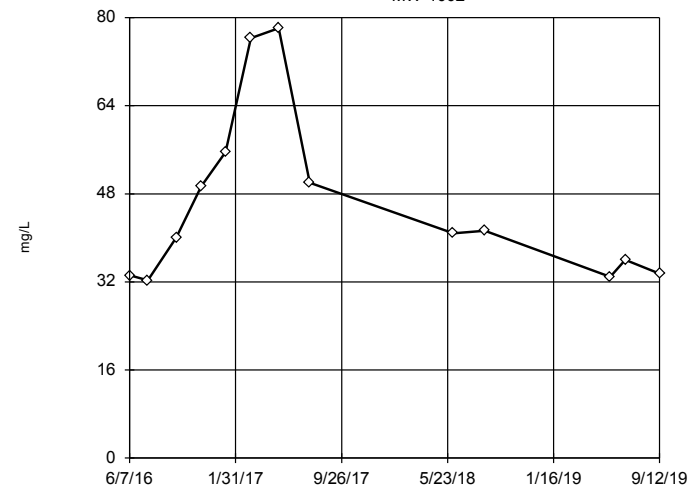


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0002231, low cutoff = 8.2e-9, based on IQR multiplier of 3.

Constituent: Cadmium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

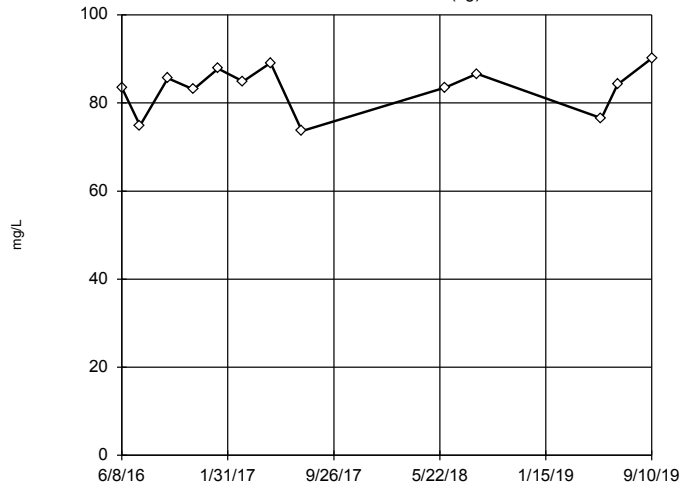
MW-1002



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 208.4, low cutoff = 8.439, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

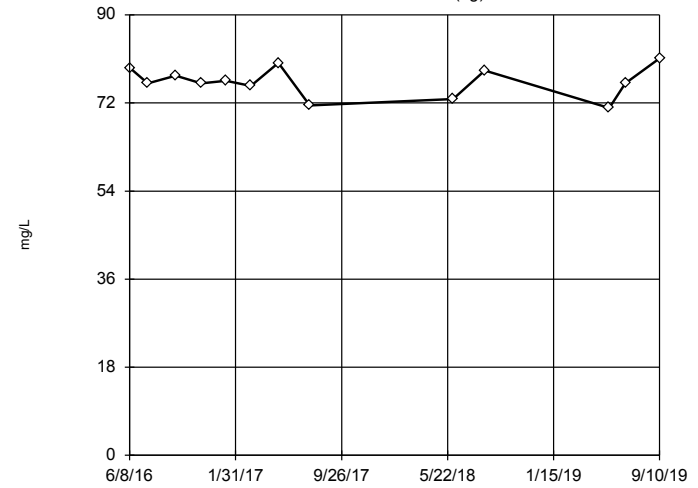
Tukey's Outlier Screening
MW-1600D (bg)



n = 13
No outliers found. Tukey's method selected by user.
Data were x*6 transformed to achieve best W statistic (graph shown in original units).
High cutoff = 99.41, low cutoff = -79.91, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

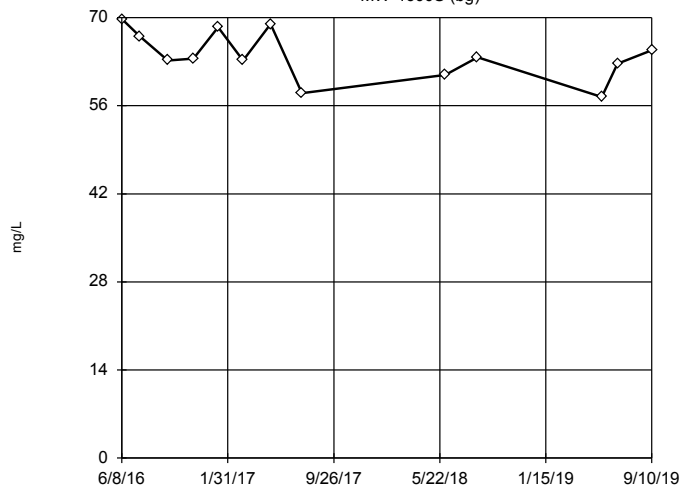
Tukey's Outlier Screening
MW-1600I (bg)



n = 13
No outliers found. Tukey's method selected by user.
Data were x*6 transformed to achieve best W statistic (graph shown in original units).
High cutoff = 87.99, low cutoff = -61.8, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

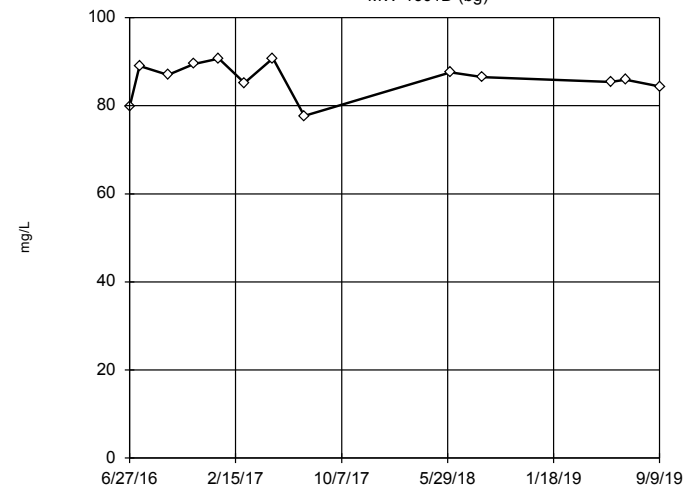
Tukey's Outlier Screening
MW-1600S (bg)



n = 13
No outliers found. Tukey's method selected by user.
Data were square transformed to achieve best W statistic (graph shown in original units).
High cutoff = 83.08, low cutoff = 38.84, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1601D (bg)

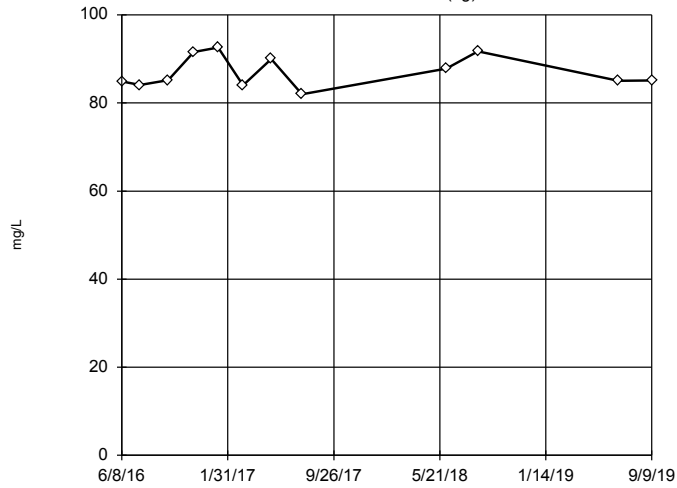


n = 13
No outliers found. Tukey's method selected by user.
Data were x*6 transformed to achieve best W statistic (graph shown in original units).
High cutoff = 98.37, low cutoff = -55.27, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-16011 (bg)

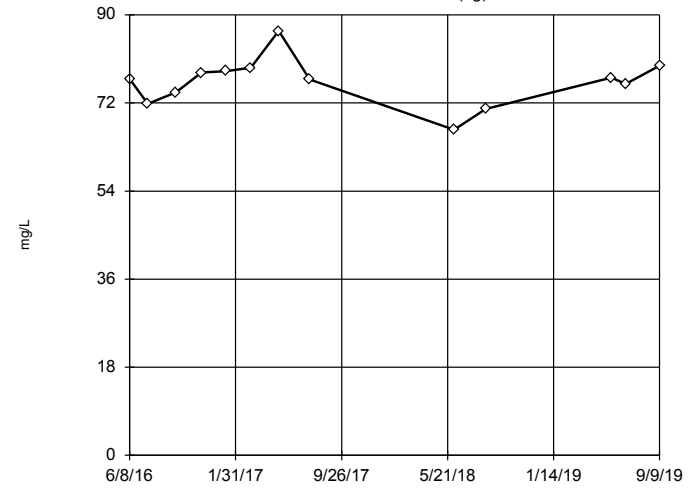


n = 12
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 112.6, low cutoff = 68.11, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1601S (bg)

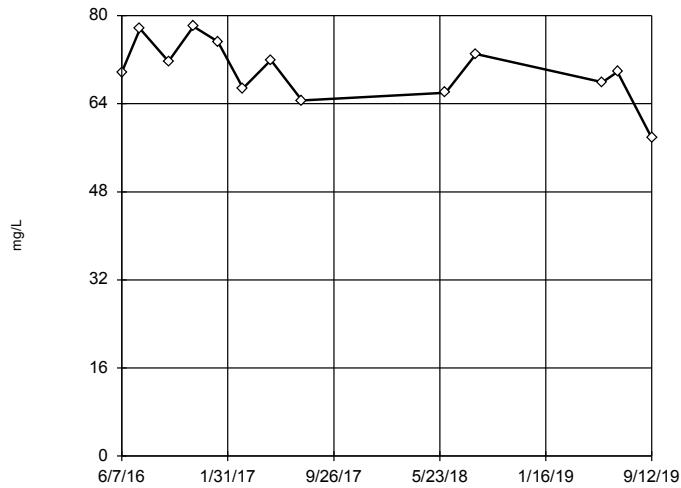


n = 13
 No outliers found. Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 96.4, low cutoff = 55.45, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602D

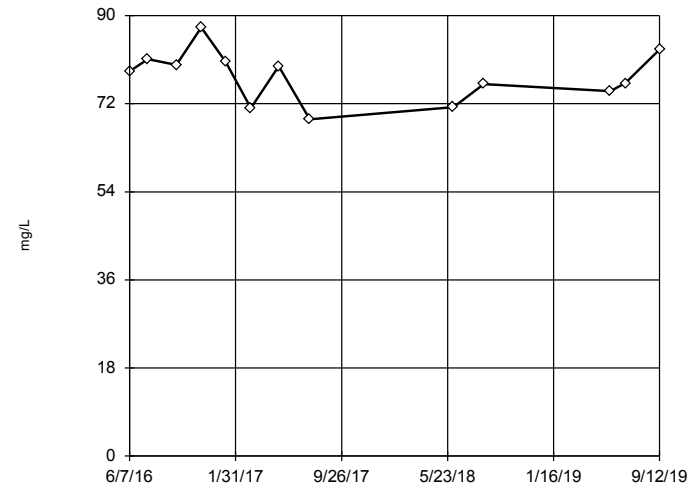


n = 13
 No outliers found. Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 91, low cutoff = -37.52, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

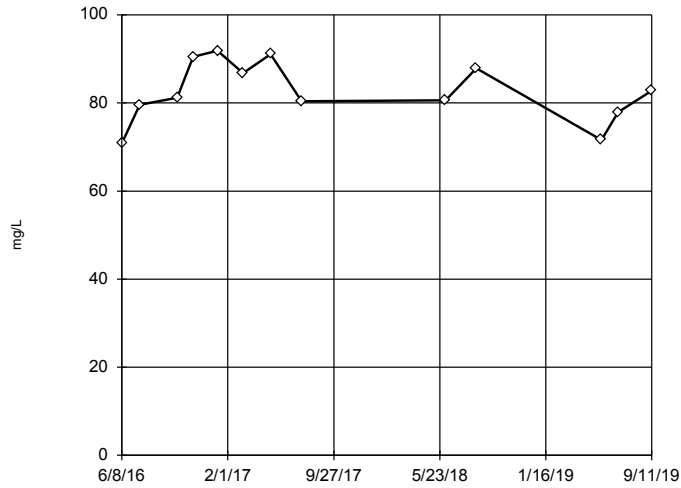
MW-1602I



n = 13
 No outliers found. Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 104.6, low cutoff = 49.25, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

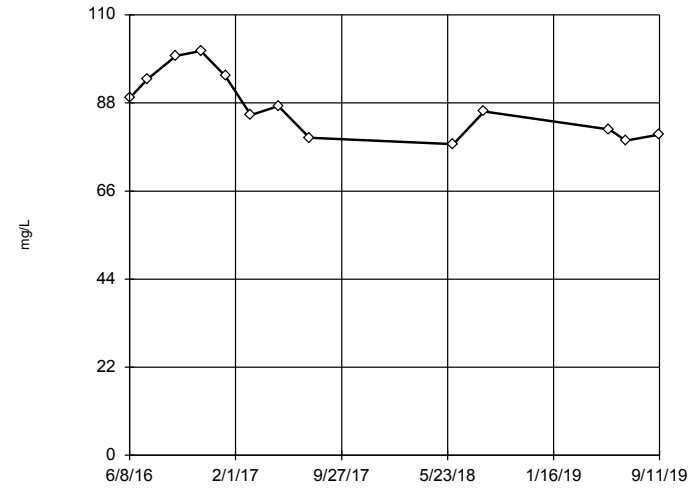
Tukey's Outlier Screening
MW-1603D



n = 13
No outliers found.
Tukey's method selected by user.
Data were square transformed to achieve best W statistic (graph shown in original units).
High cutoff = 115, low cutoff = 30.56, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

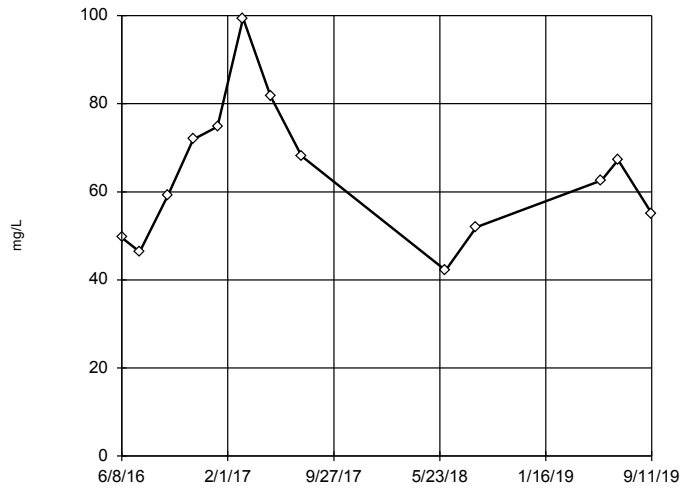
Tukey's Outlier Screening
MW-1603I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 156.2, low cutoff = 48.12, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

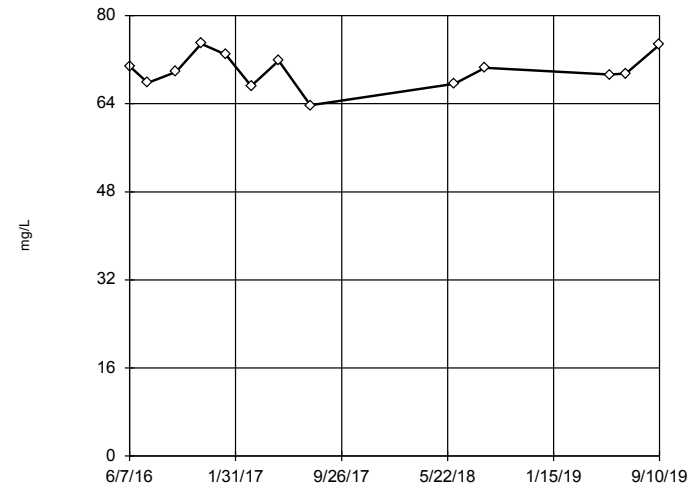
Tukey's Outlier Screening
MW-1603S



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 220.8, low cutoff = 16.87, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1604D

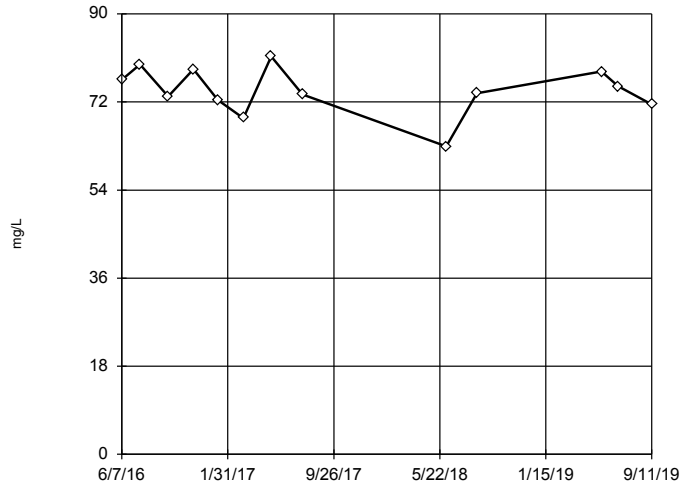


n = 13
No outliers found.
Tukey's method selected by user.
Data were square transformed to achieve best W statistic (graph shown in original units).
High cutoff = 84.79, low cutoff = 51.27, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604I

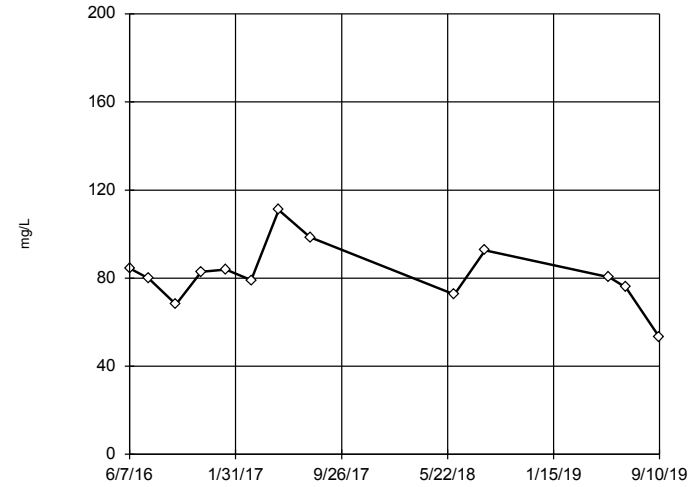


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were x⁵ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 90.59, low cutoff = -65.43, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S

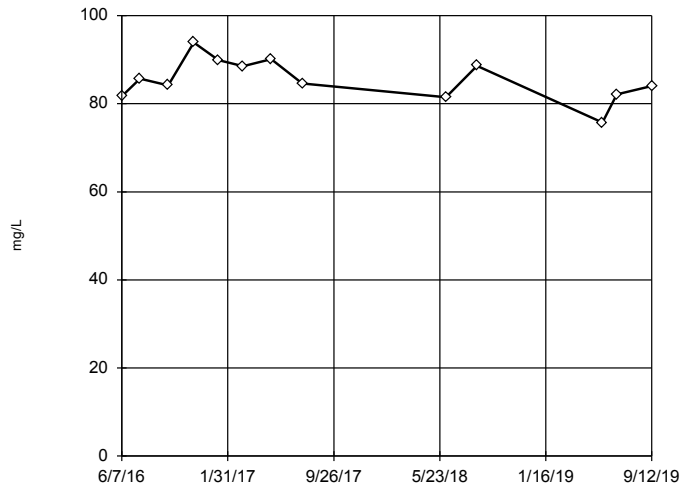


n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 131.8, low cutoff = 30.95, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605D

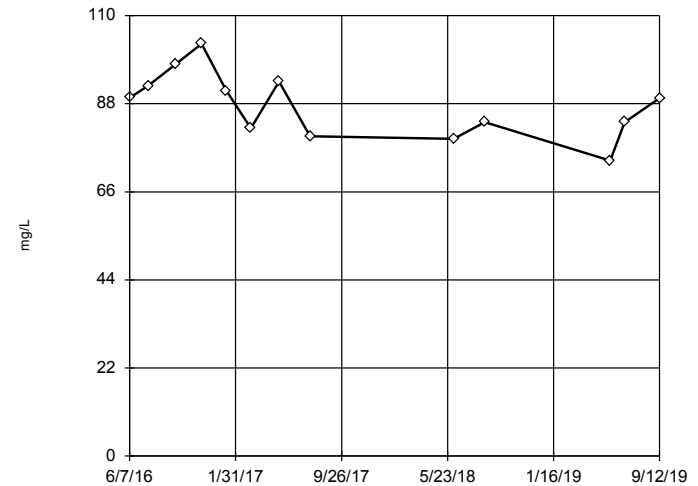


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 108.4, low cutoff = 54.15, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

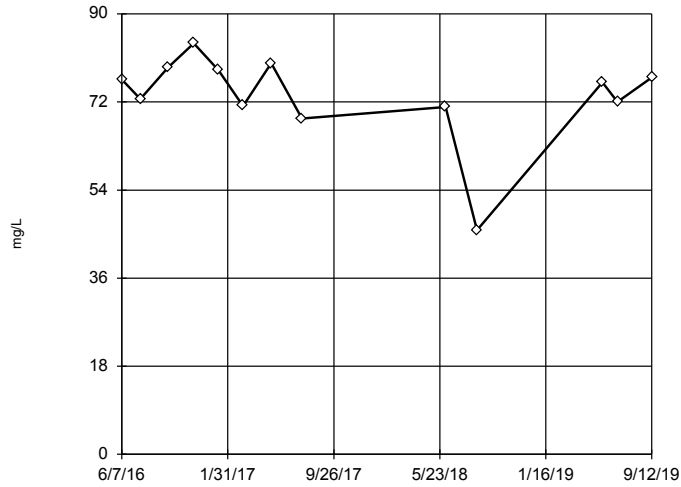
MW-1605I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 141.3, low cutoff = 53.24, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

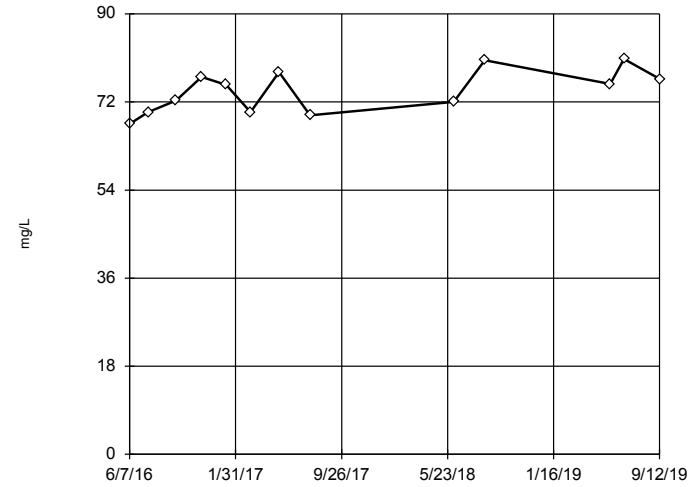
Tukey's Outlier Screening
MW-1605S



n = 13
No outliers found.
Tukey's method selected by user.
Data were x*6 transformed to achieve best W statistic (graph shown in original units).
High cutoff = 91.07, low cutoff = -76.58, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

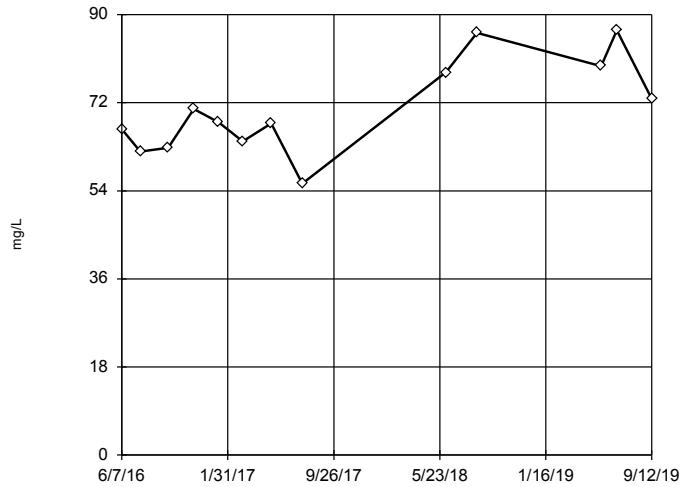
Tukey's Outlier Screening
MW-1606D



n = 13
No outliers found.
Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 103.1, low cutoff = 49.22, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

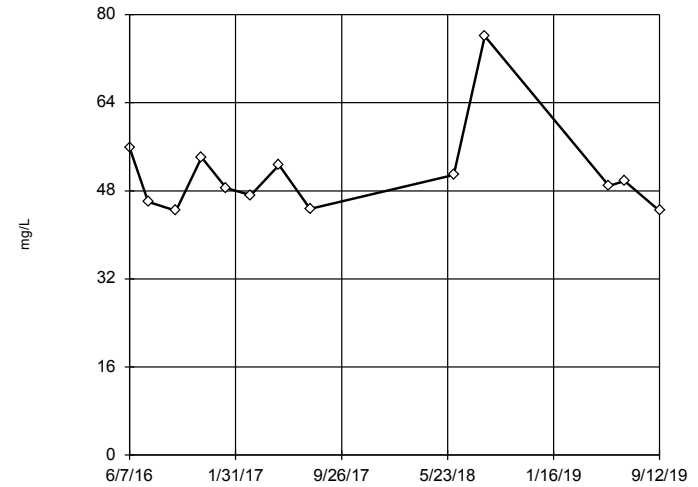
Tukey's Outlier Screening
MW-1606I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 151.3, low cutoff = 33.06, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

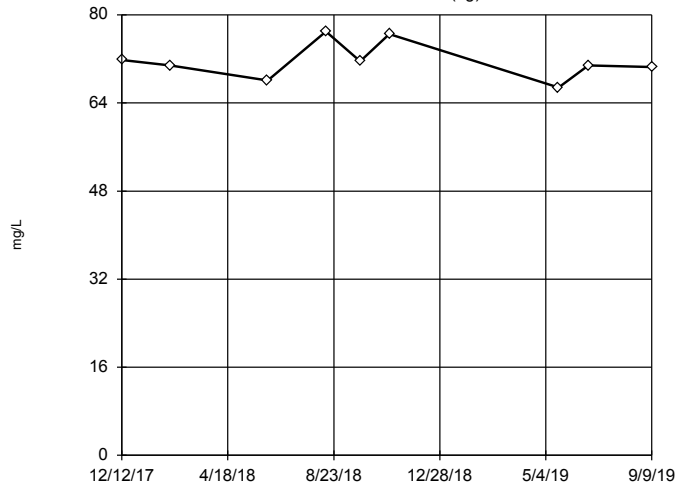
Tukey's Outlier Screening
MW-1606S



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 87.18, low cutoff = 27.77, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

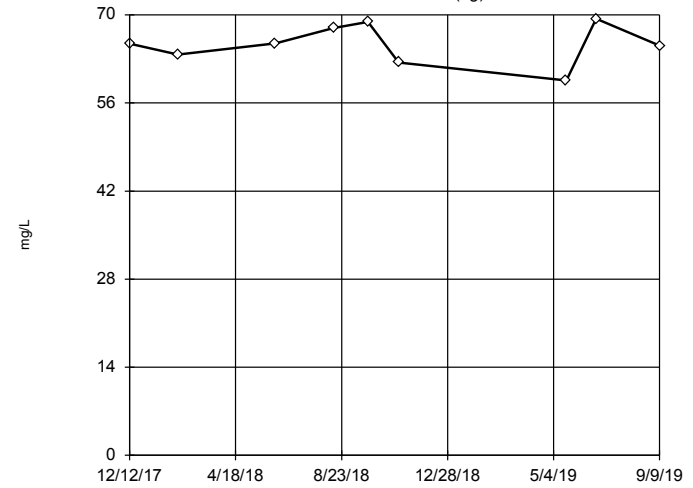
Tukey's Outlier Screening
MW-1701D (bg)



n = 9
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 90.69, low cutoff = 56.62, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

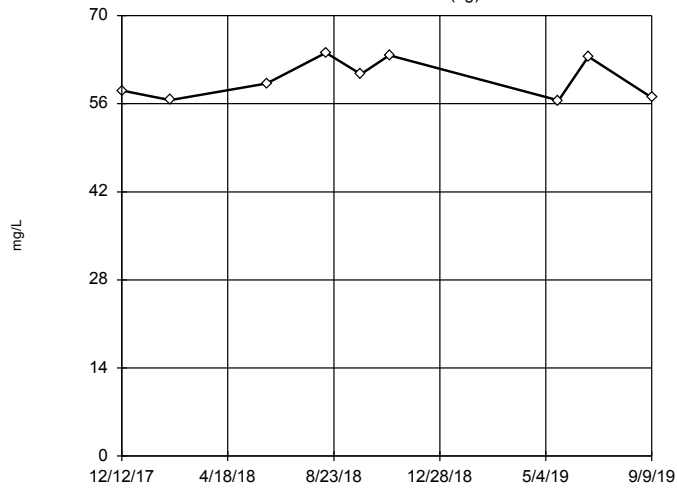
Tukey's Outlier Screening
MW-1701I (bg)



n = 9
No outliers found. Tukey's method selected by user.
Data were x⁴ transformed to achieve best W statistic (graph shown in original units).
High cutoff = 79.6, low cutoff = -39.5, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

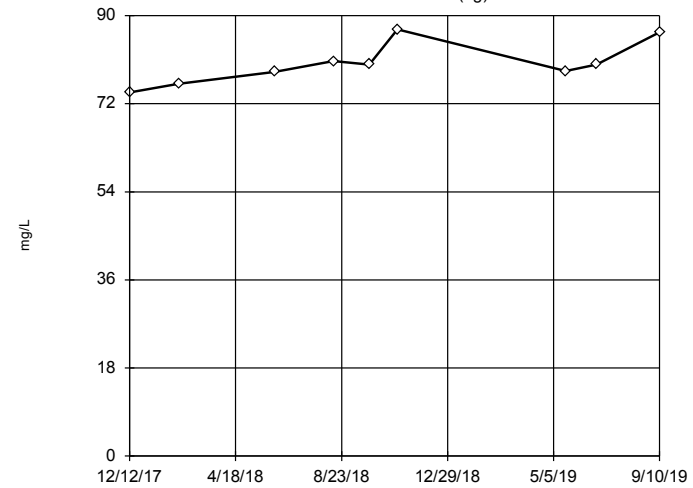
Tukey's Outlier Screening
MW-1701S (bg)



n = 9
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 89.29, low cutoff = 40.46, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

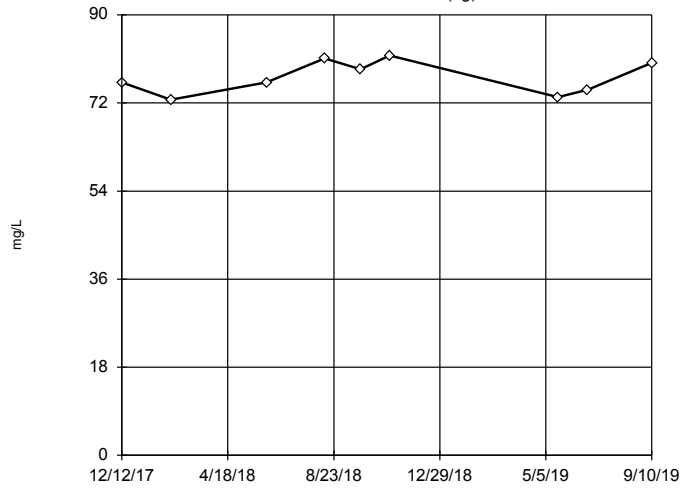
Tukey's Outlier Screening
MW-1702D (bg)



n = 9
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 105.8, low cutoff = 61.08, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

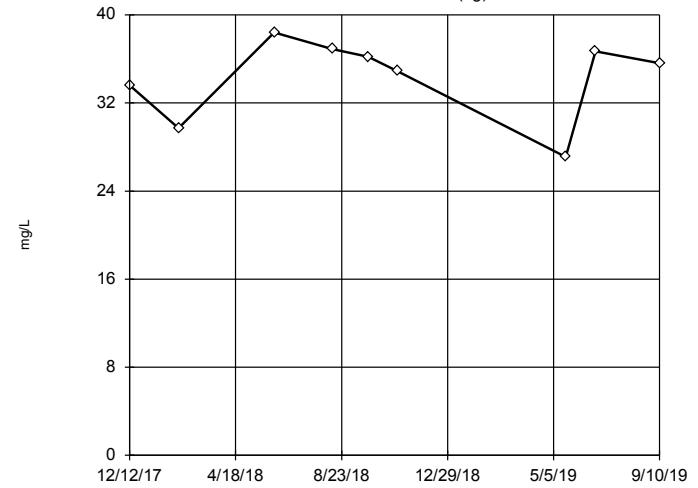
Tukey's Outlier Screening
MW-1702I (bg)



n = 9
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 104.6, low cutoff = 57, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

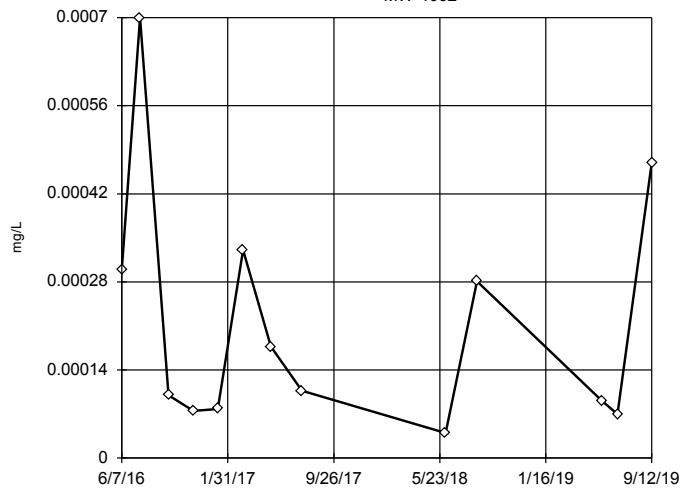
Tukey's Outlier Screening
MW-1702S (bg)



n = 9
No outliers found. Tukey's method selected by user.
Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
High cutoff = 43.47, low cutoff = -38.39, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

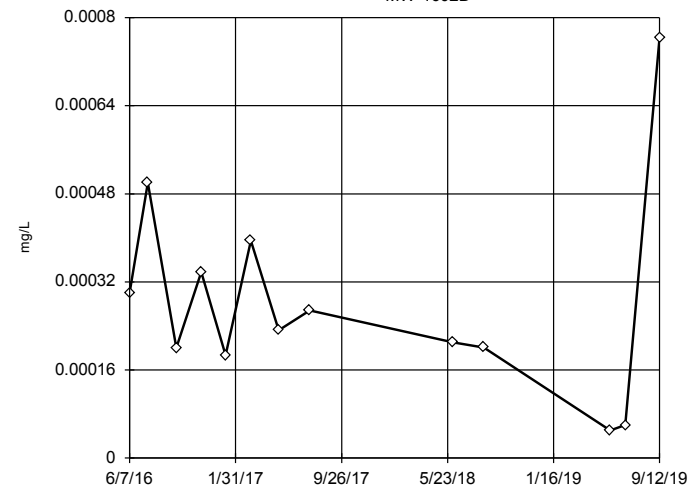
Tukey's Outlier Screening
MW-1002



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.02204, low cutoff = 0.000001094, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:09 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1602D

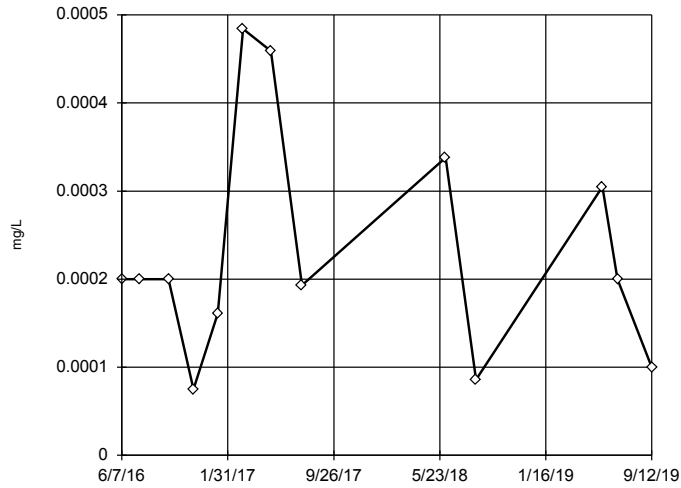


n = 13
No outliers found. Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.001211, low cutoff = -0.000003081, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602I

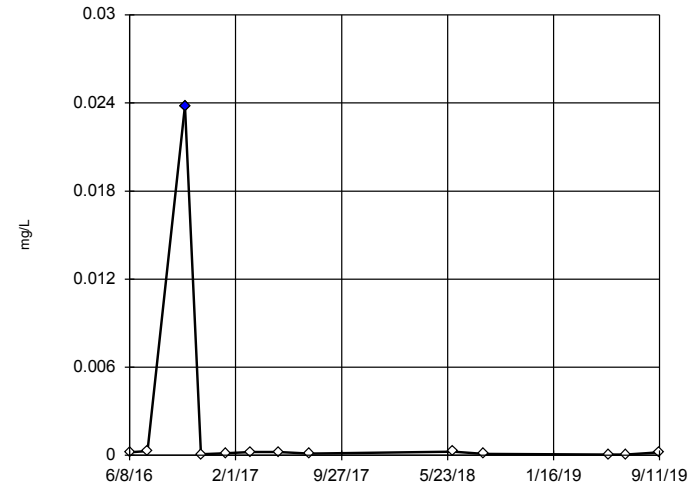


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.005202, low cutoff = 0.00007831, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603D

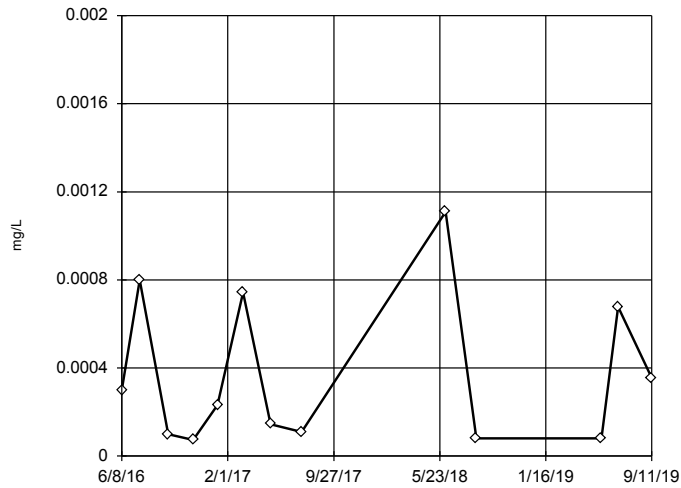


n = 13
 Outlier is drawn as solid.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.00522, low cutoff = 0.00004124, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

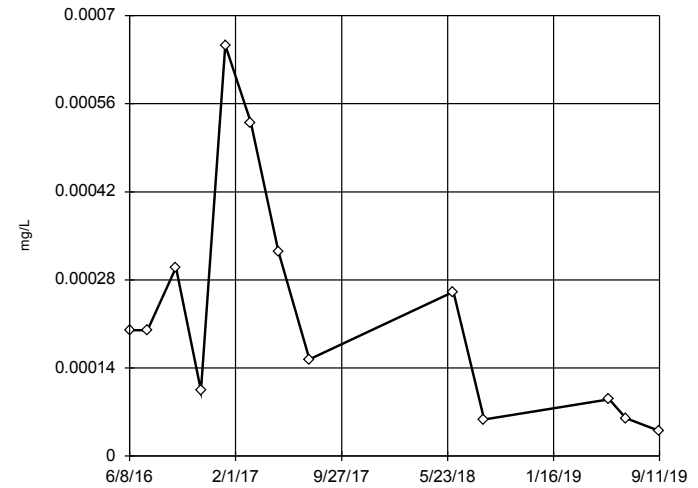


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.3481, low cutoff = 1.8e-7, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

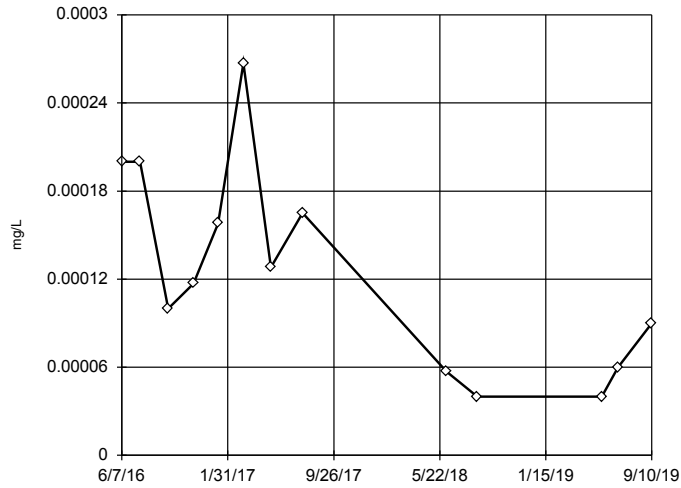
MW-1603S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.02396, low cutoff = 9.6e-7, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

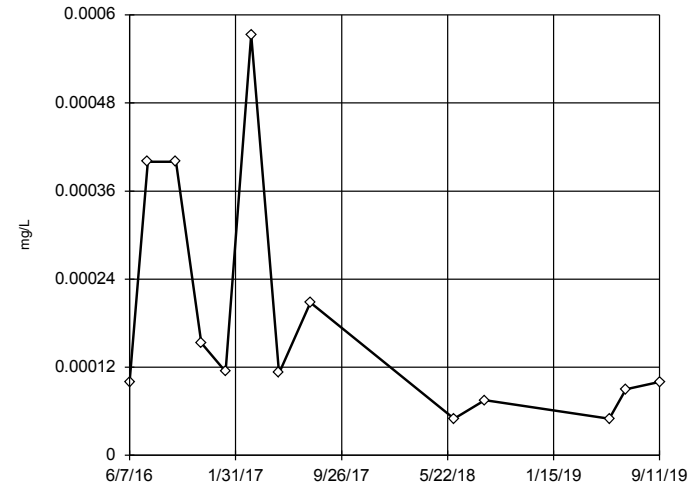
Tukey's Outlier Screening
MW-1604D



n = 13
No outliers found. Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.0009629, low cutoff = -0.0000978, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

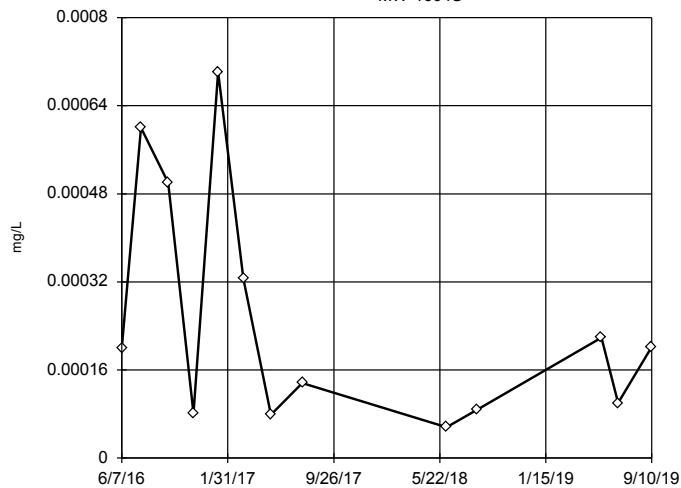
Tukey's Outlier Screening
MW-1604I



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.01248, low cutoff = 0.00001899, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

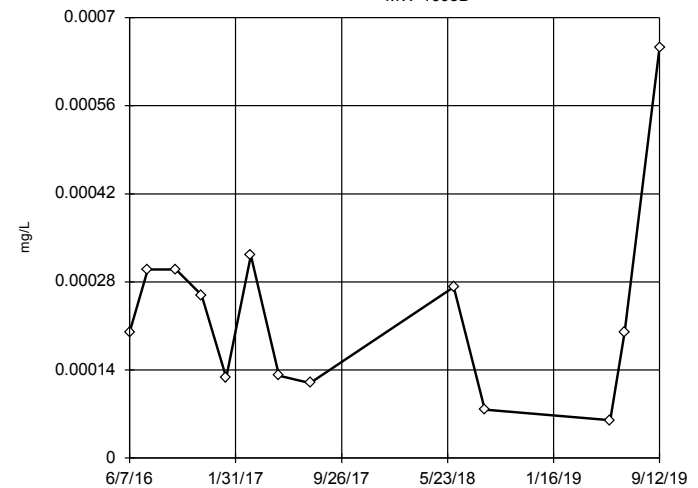
Tukey's Outlier Screening
MW-1604S



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.04415, low cutoff = 7.7e-7, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

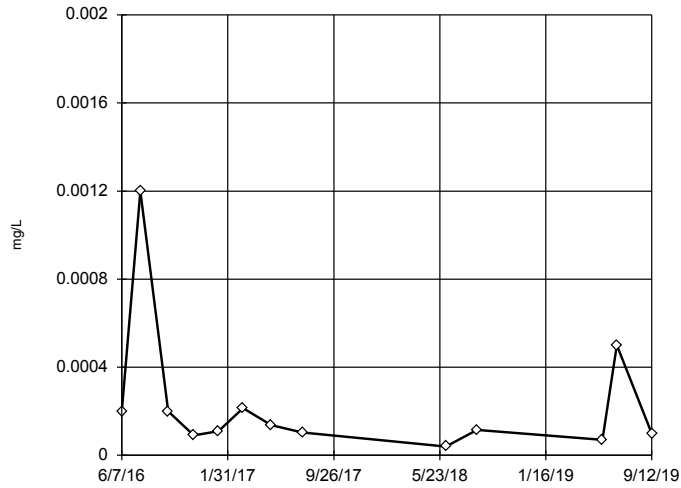
Tukey's Outlier Screening
MW-1605D



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.004309, low cutoff = 0.000008593, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

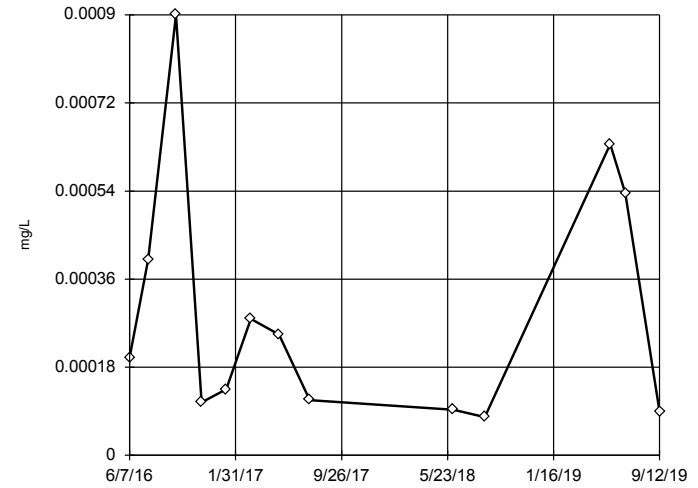
Tukey's Outlier Screening
MW-1605I



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.00211, low cutoff = 0.00009352, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

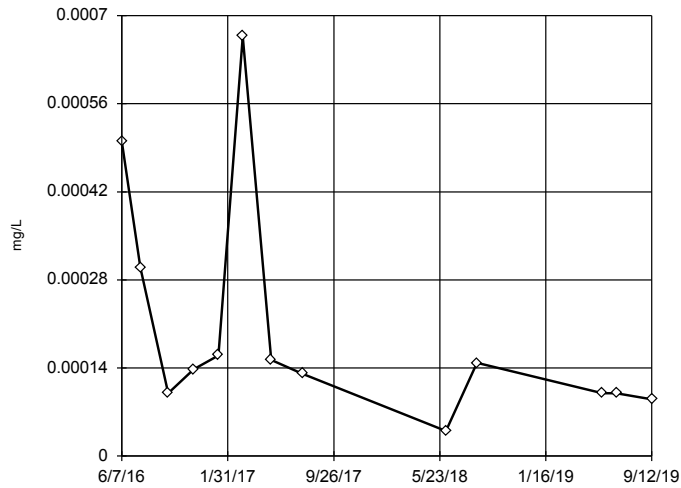
Tukey's Outlier Screening
MW-1605S



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.04567, low cutoff = 0.00001016, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

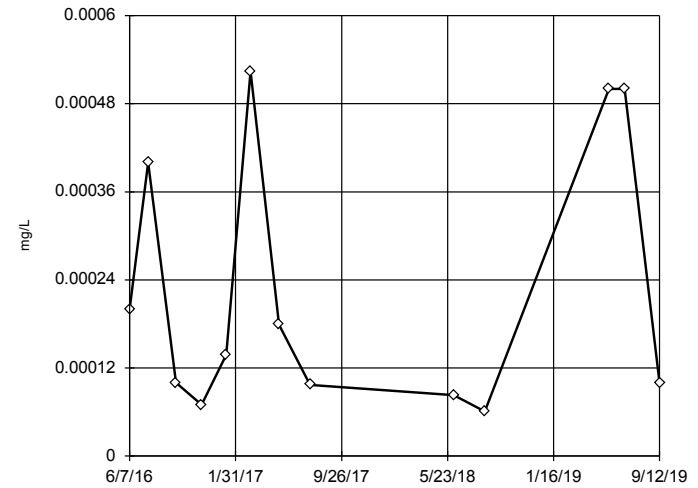
Tukey's Outlier Screening
MW-1606D



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.002304, low cutoff = 0.00009509, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

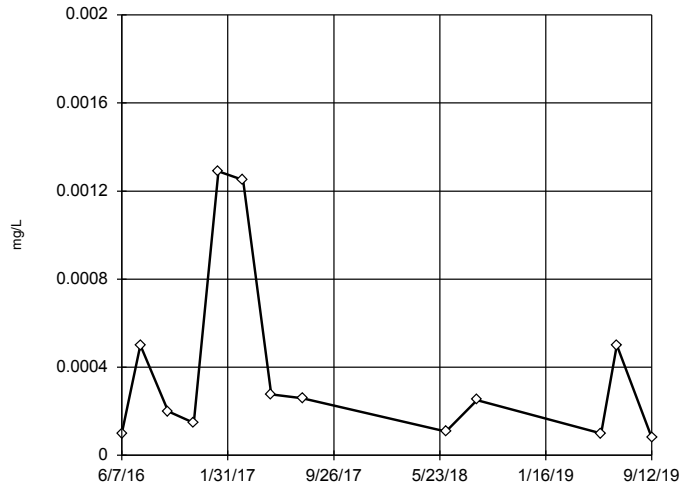
Tukey's Outlier Screening
MW-1606I



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.05537, low cutoff = 7.2e-7, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

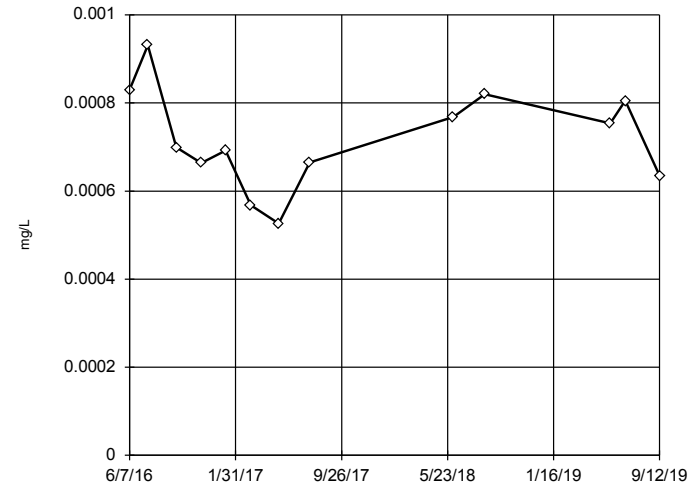
Tukey's Outlier Screening
MW-1606S



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.05569, low cutoff = 9.3e-7, based on IQR multiplier of 3.

Constituent: Chromium, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

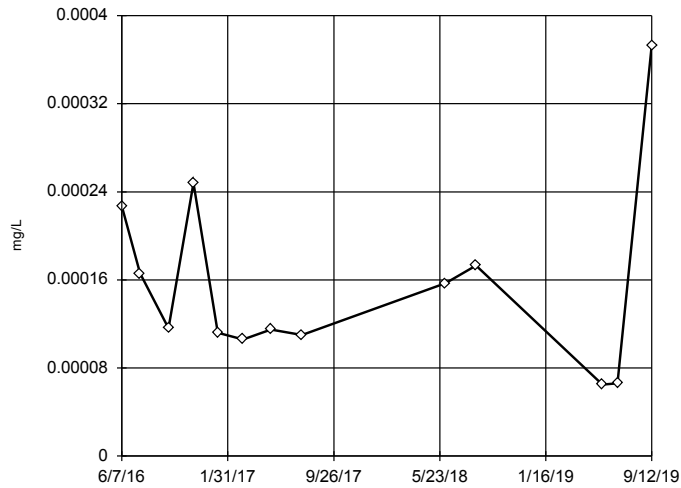
Tukey's Outlier Screening
MW-1002



n = 13
No outliers found. Tukey's method selected by user.
Ladder of Powers transformations did not improve normality; analysis run on raw data.
High cutoff = 0.001302, low cutoff = 0.0001605, based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

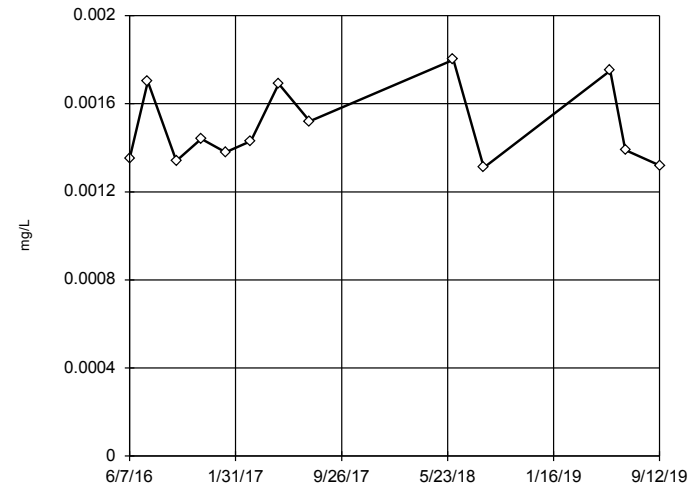
Tukey's Outlier Screening
MW-1602D



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.001225, low cutoff = 0.00001747, based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

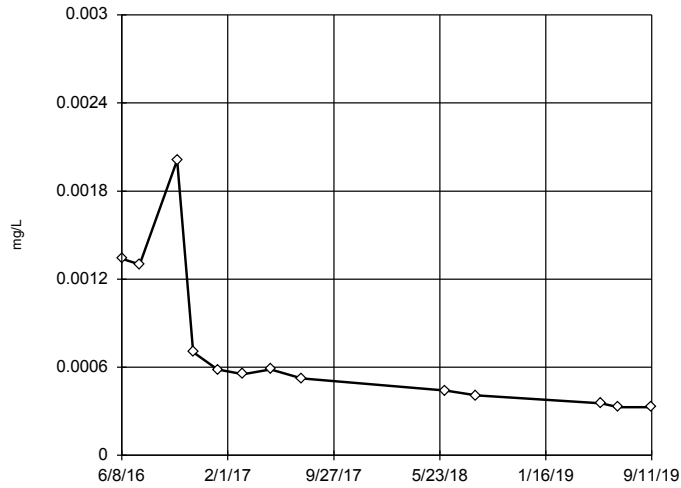
Tukey's Outlier Screening
MW-1602I



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.003392, low cutoff = 0.000672, based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

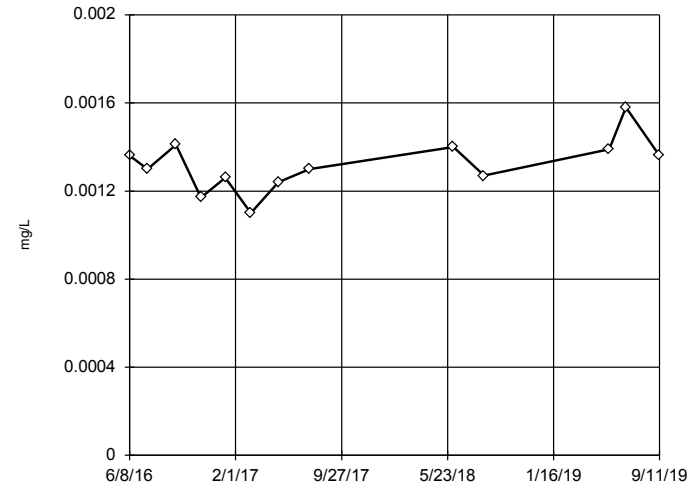
Tukey's Outlier Screening MW-1603D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.01516,
 low cutoff = 0.0002399,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

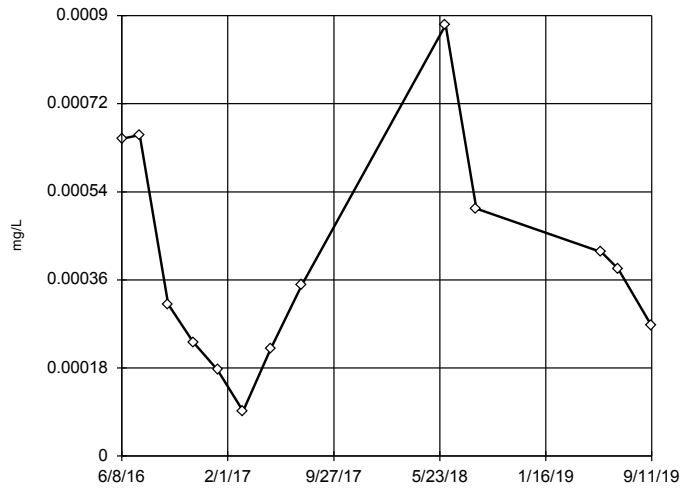
Tukey's Outlier Screening MW-1603I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001939,
 low cutoff = 0.0008992,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

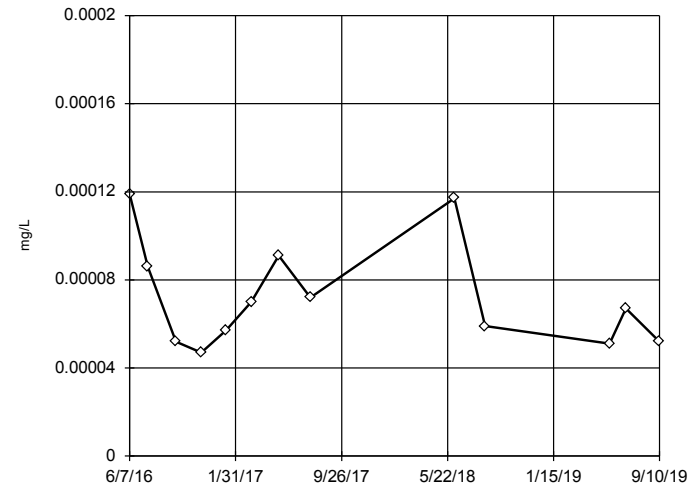
Tukey's Outlier Screening MW-1603S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.003357,
 low cutoff = -1.9e-7,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1604D

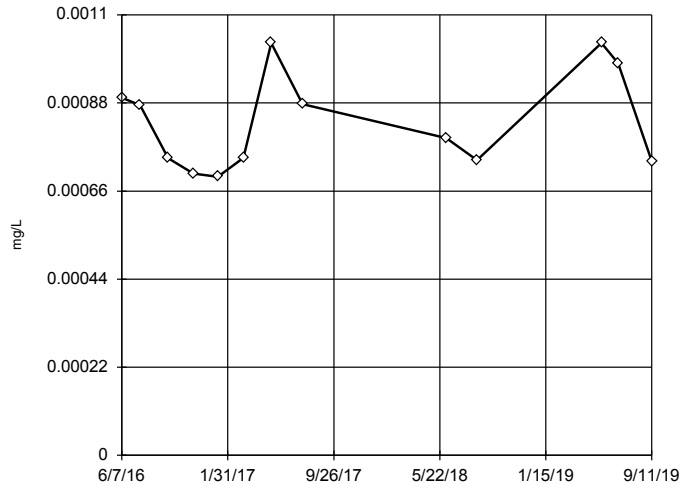


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0004356,
 low cutoff = 0.00001056,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604I

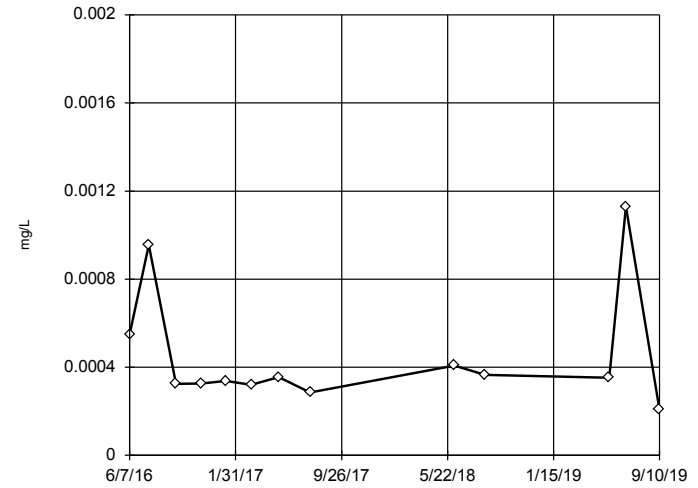


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001917,
 low cutoff = 0.000359,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S

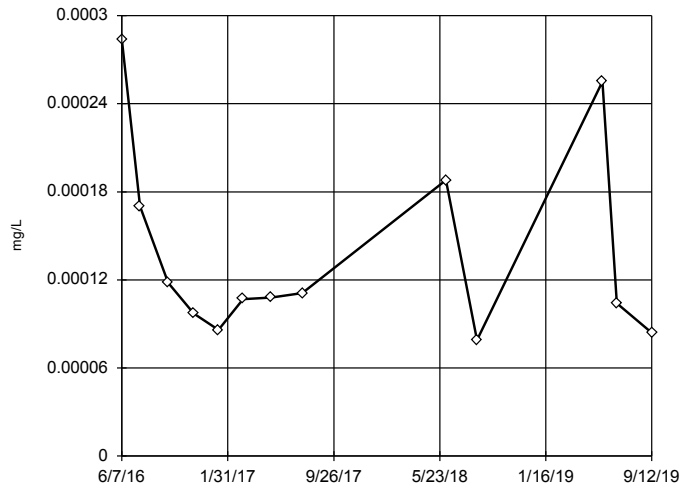


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001476,
 low cutoff = 0.0001033,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605D

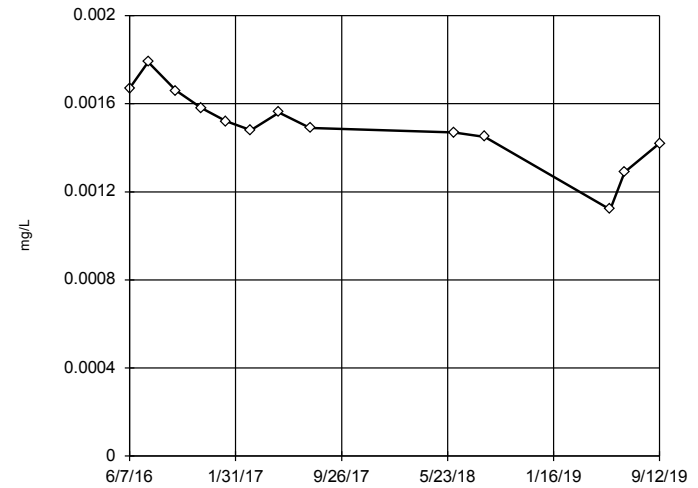


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001341,
 low cutoff = 0.00001218,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

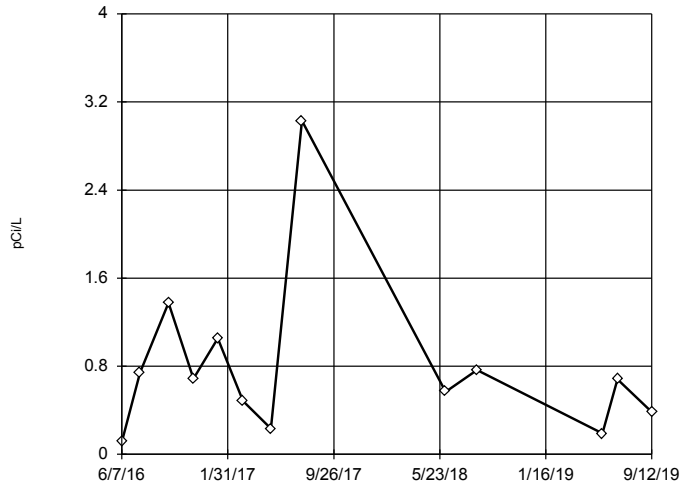
MW-1605I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.002014,
 low cutoff = -0.0009845,
 based on IQR multiplier of 3.

Constituent: Cobalt, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

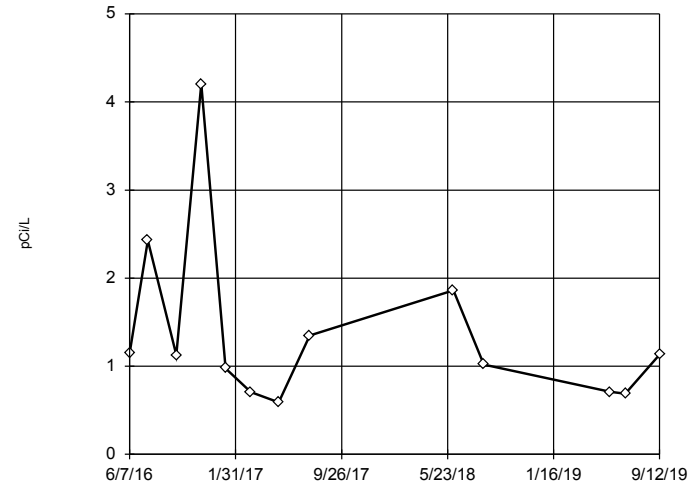
Tukey's Outlier Screening
MW-1002



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 24.15, low cutoff = 0.01113, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

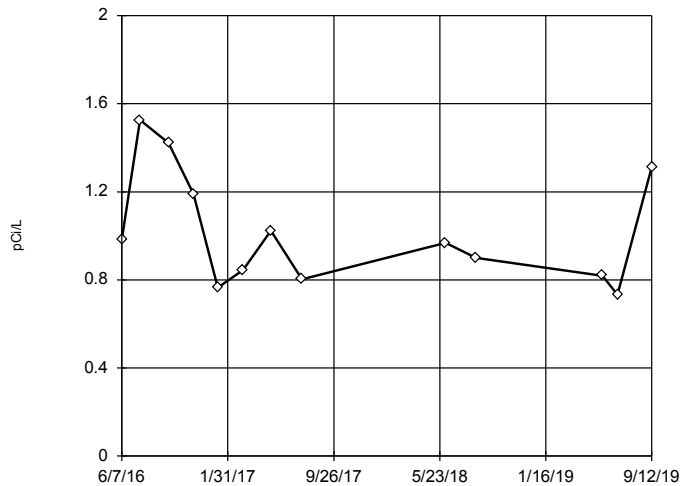
Tukey's Outlier Screening
MW-1602D



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 17.78, low cutoff = 0.06304, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

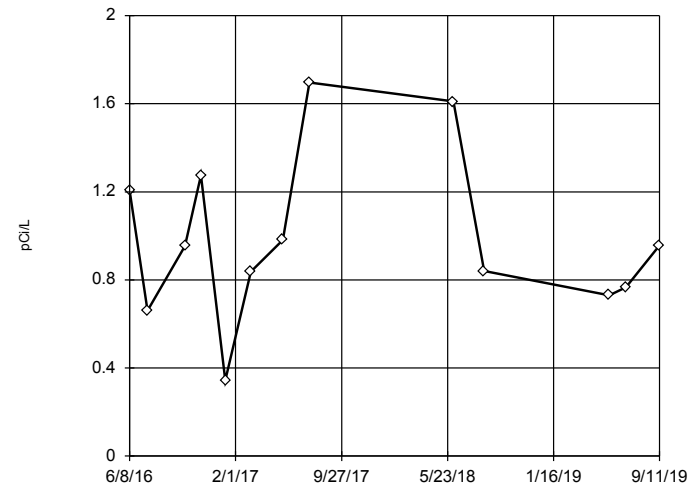
Tukey's Outlier Screening
MW-1602I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 4.576, low cutoff = 0.2214, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1603D

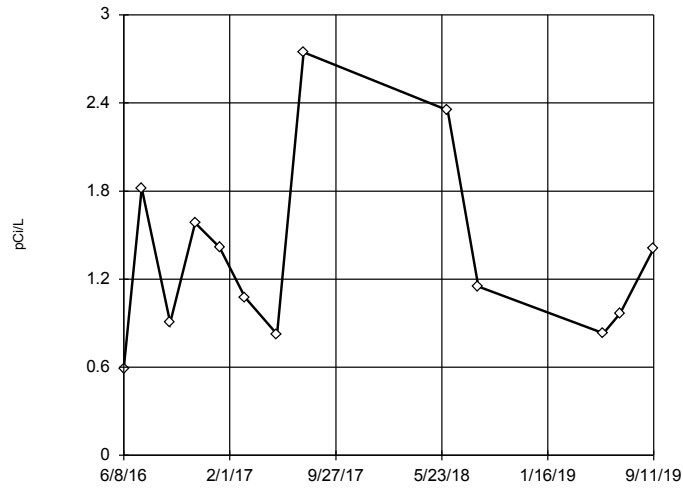


n = 13
No outliers found.
Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 3.461, low cutoff = 0.01398, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

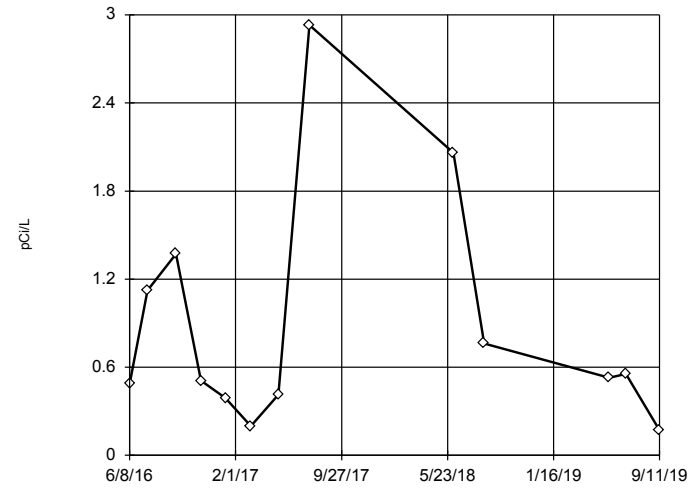


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 12.74, low cutoff = 0.1156, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S

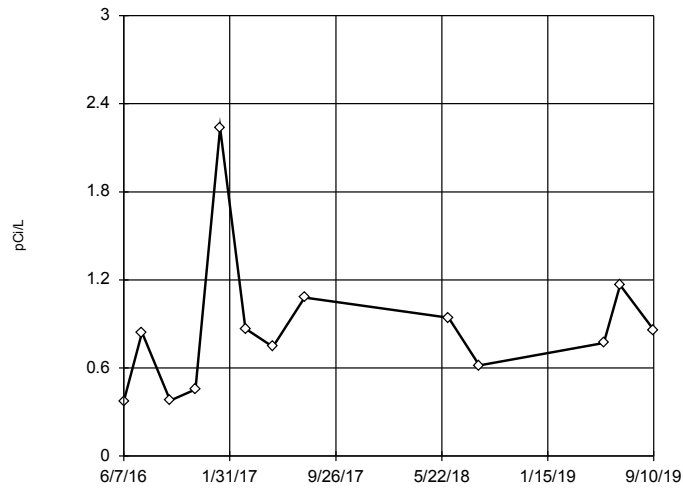


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 36.56, low cutoff = 0.01366, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D

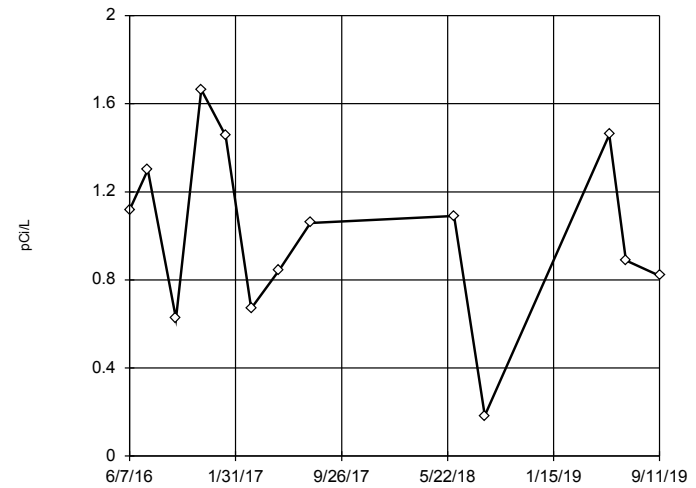


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 6.968, low cutoff = 0.07657, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

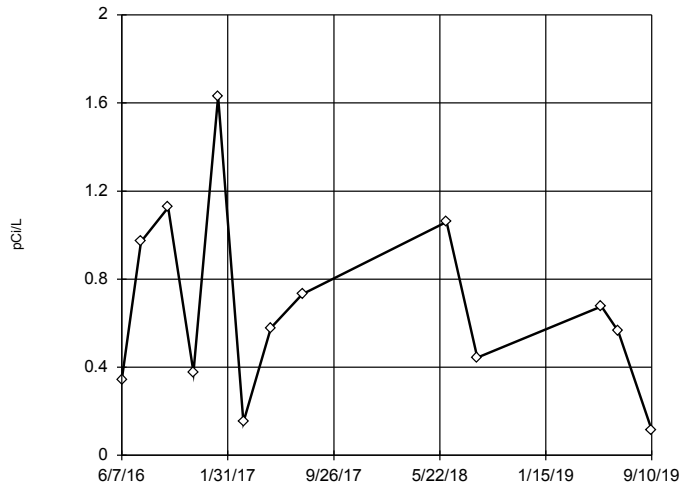
MW-1604I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 3.273, low cutoff = -1.151, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

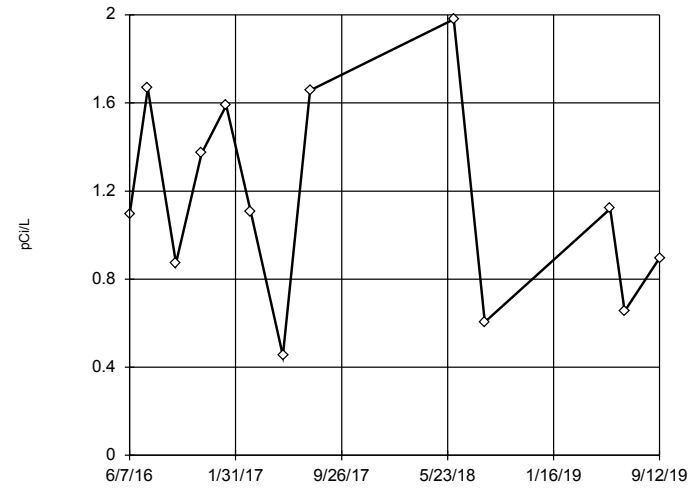
Tukey's Outlier Screening
MW-1604S



n = 13
No outliers found.
Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 4.964, low cutoff = -0.3854, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

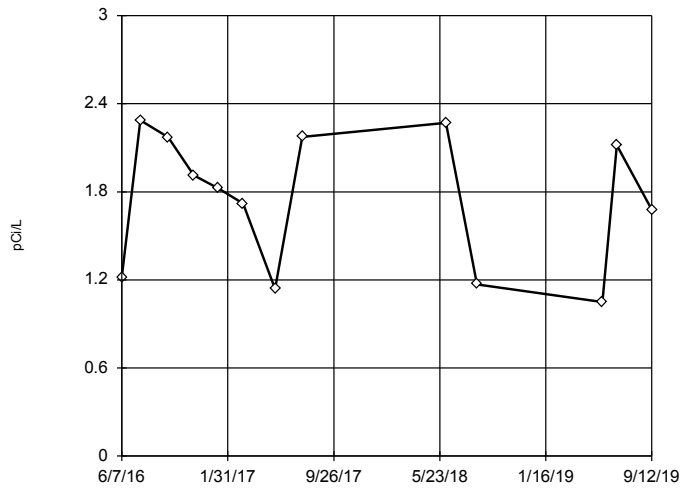
Tukey's Outlier Screening
MW-1605D



n = 13
No outliers found.
Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 6.151, low cutoff = -0.1118, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

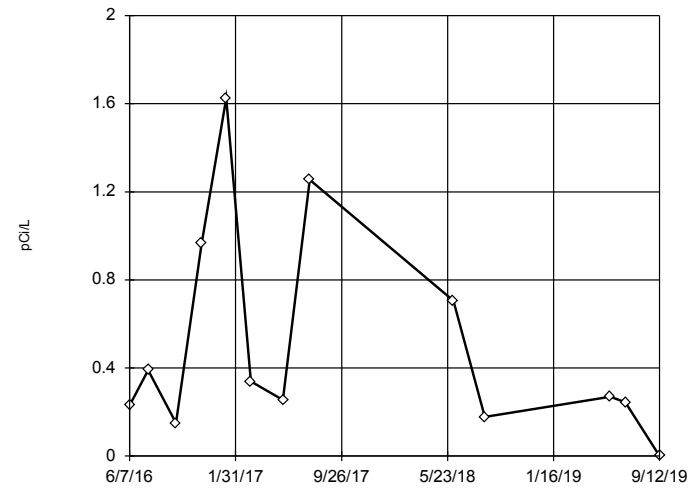
Tukey's Outlier Screening
MW-1605I



n = 13
No outliers found.
Tukey's method selected by user.
Data were cube transformed to achieve best W statistic (graph shown in original units).
High cutoff = 3.298, low cutoff = -2.881, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

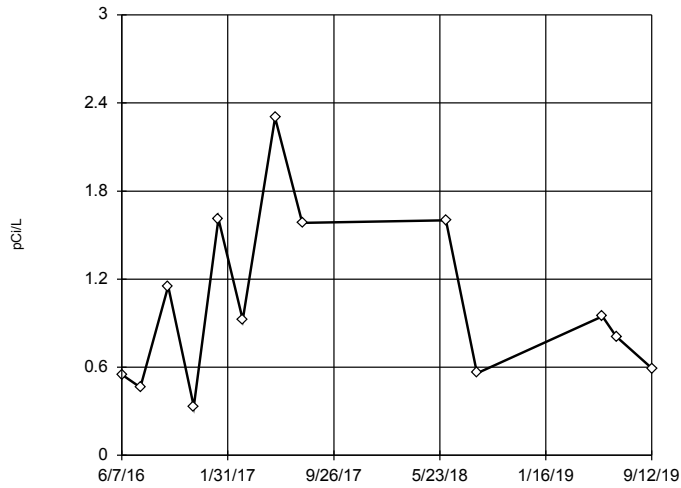
Tukey's Outlier Screening
MW-1605S



n = 13
No outliers found.
Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 5.242, low cutoff = -0.8608, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

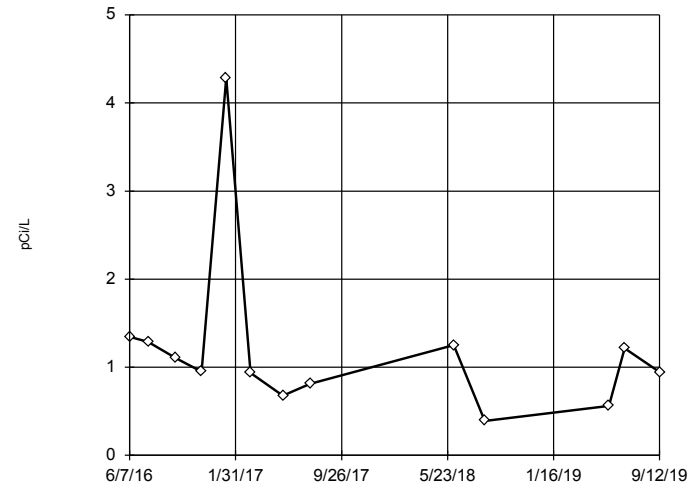
Tukey's Outlier Screening MW-1606D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 37.47, low cutoff = 0.0236, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

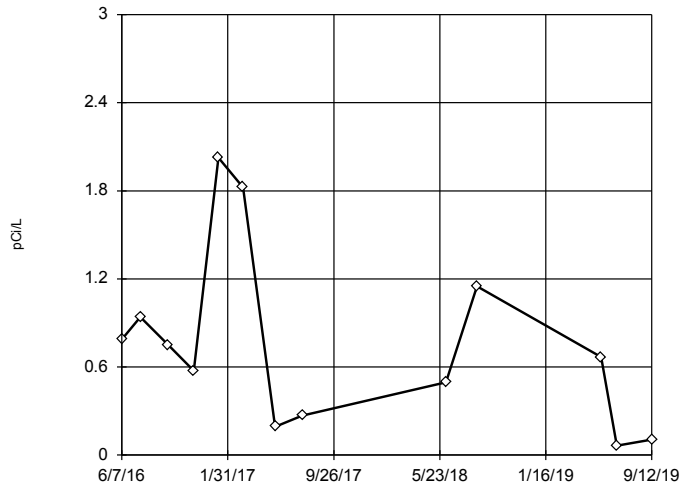
Tukey's Outlier Screening MW-1606I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 6.328, low cutoff = 0.1486, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

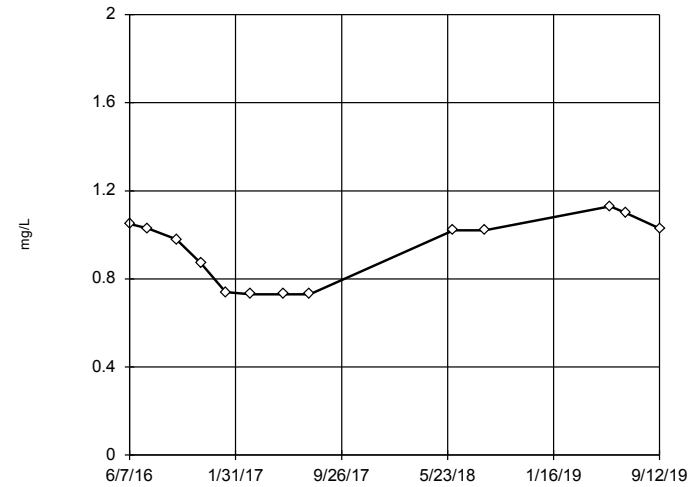
Tukey's Outlier Screening MW-1606S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 10.95, low cutoff = -0.2113, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

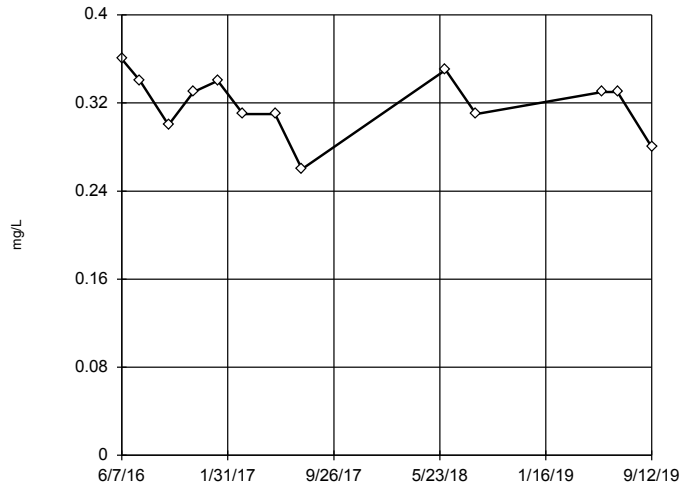
Tukey's Outlier Screening MW-1002



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were x^6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 1.289, low cutoff = -1.212, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

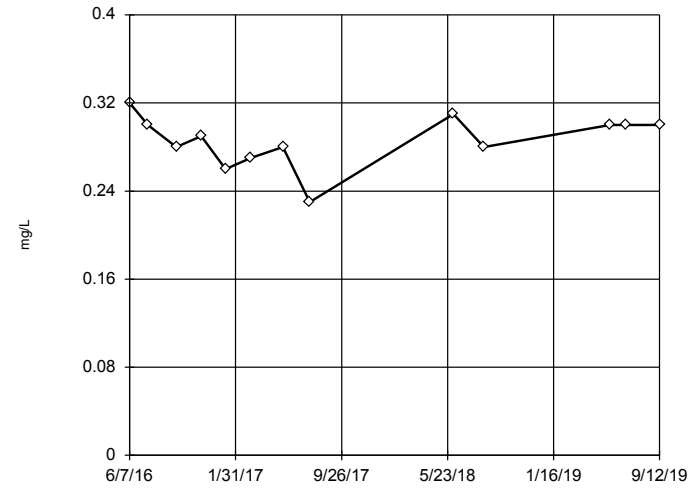
Tukey's Outlier Screening
MW-1602D



n = 13
No outliers found. Tukey's method selected by user.
Data were x⁵ transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.4, low cutoff = -0.3138, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

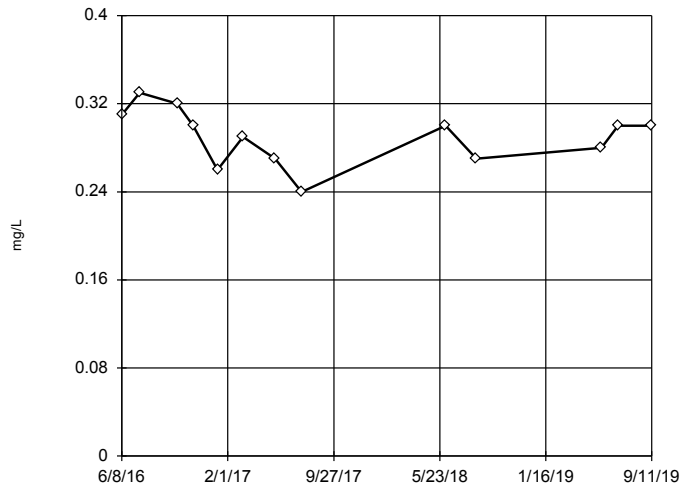
Tukey's Outlier Screening
MW-1602I



n = 13
No outliers found. Tukey's method selected by user.
Data were x⁵ transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.3464, low cutoff = -0.2501, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

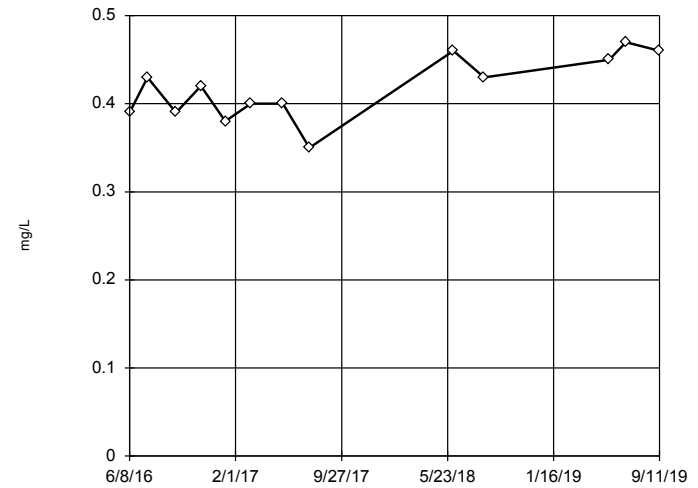
Tukey's Outlier Screening
MW-1603D



n = 13
No outliers found. Tukey's method selected by user.
Data were cube transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.3792, low cutoff = -0.1862, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1603I

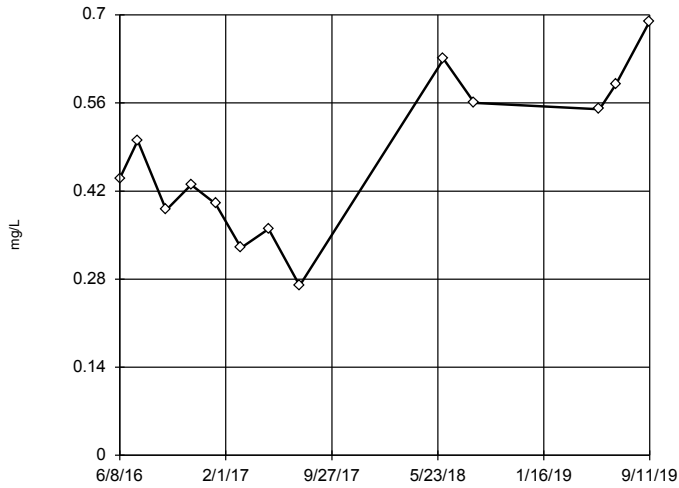


n = 13
No outliers found. Tukey's method selected by user.
Ladder of Powers transformations did not improve normality; analysis run on raw data.
High cutoff = 0.65, low cutoff = 0.195, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S

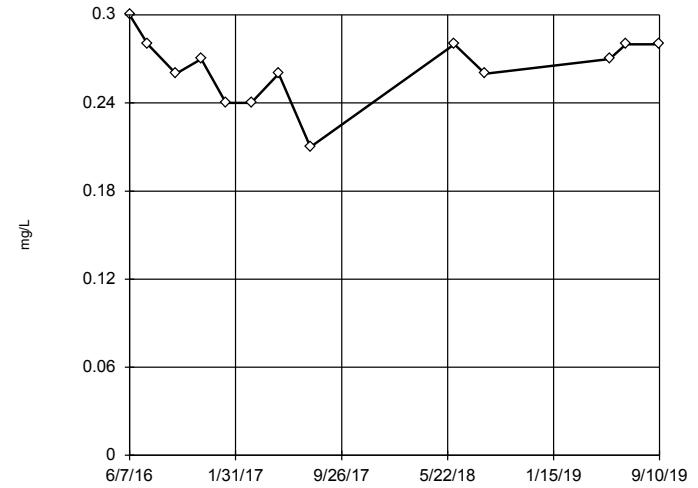


n = 13
 No outliers found. Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 1.431, low cutoff = 0.03039, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D

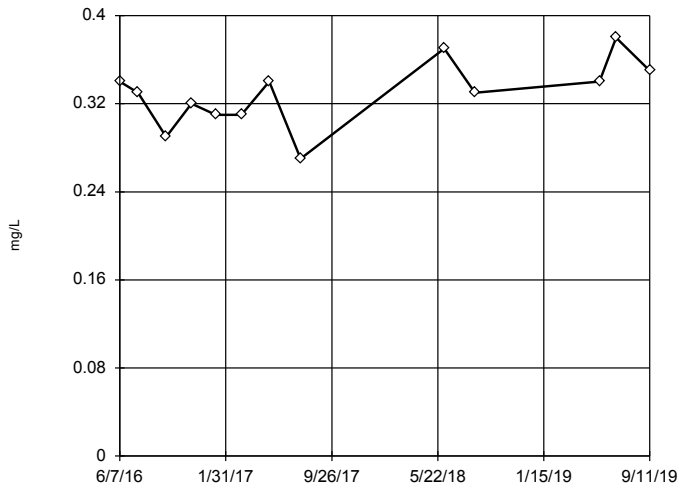


n = 13
 No outliers found. Tukey's method selected by user.
 Data were x⁴ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.3361, low cutoff = -0.2272, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604I

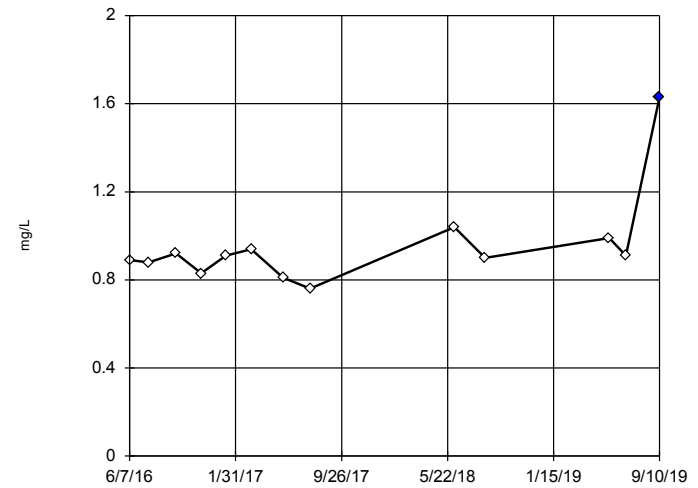


n = 13
 No outliers found. Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.4335, low cutoff = 0.1651, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S

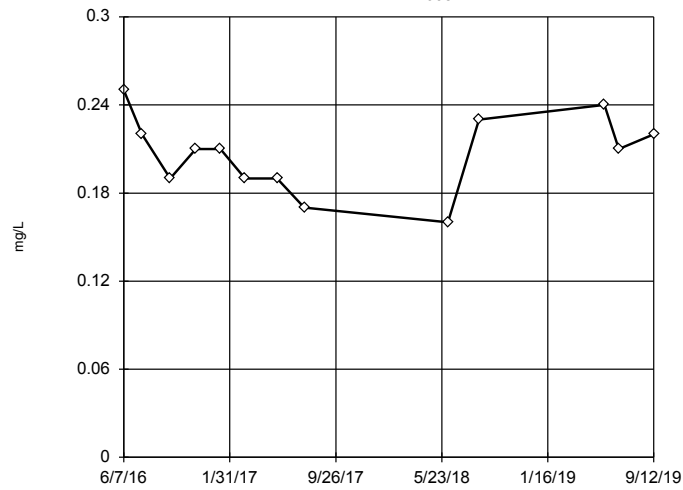


n = 13
 Outlier is drawn as solid. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 1.387, low cutoff = 0.5943, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605D



n = 13

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

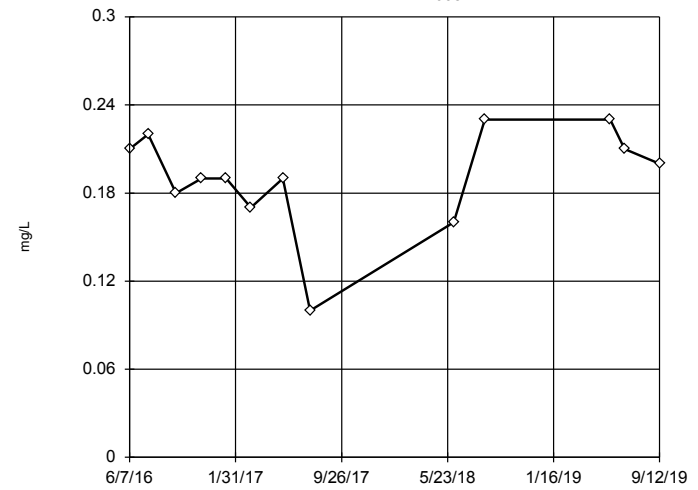
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.3071, low cutoff = -0.08689, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605I



n = 13

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

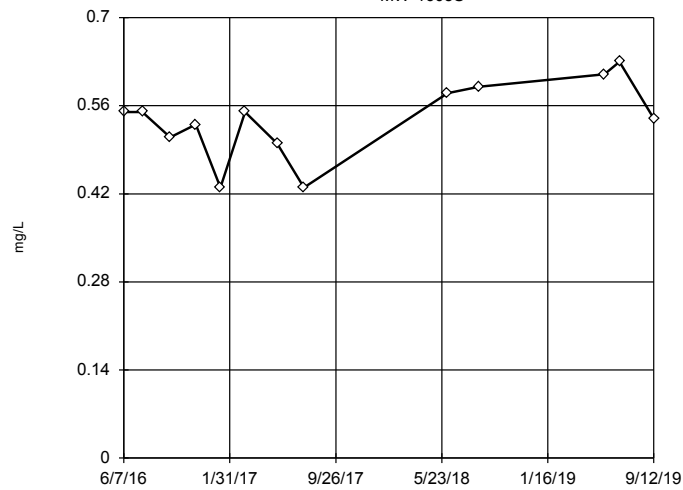
Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2872, low cutoff = -0.2031, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605S



n = 13

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

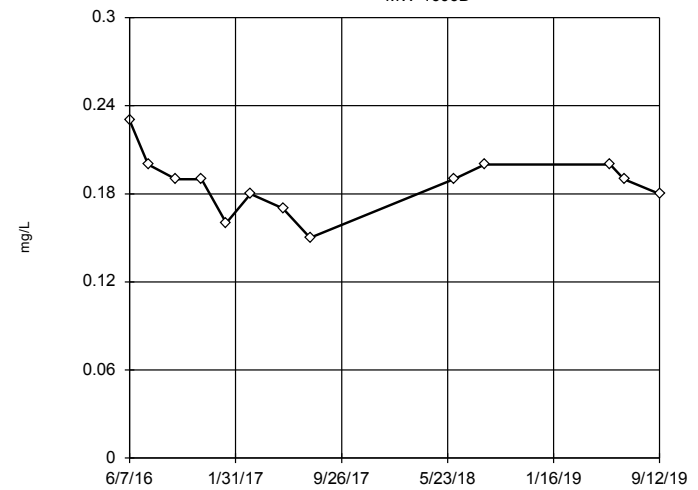
Data were x^4 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.7231, low cutoff = -0.5495, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606D



n = 13

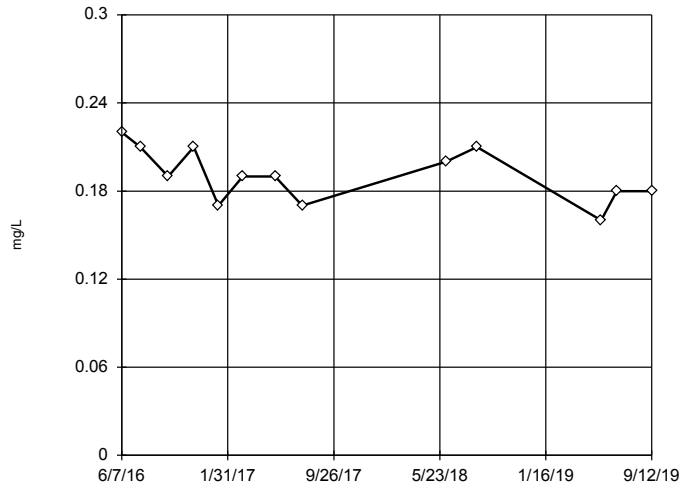
No outliers found. Tukey's method selected by user.

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

High cutoff = 0.2851, low cutoff = 0.1099, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

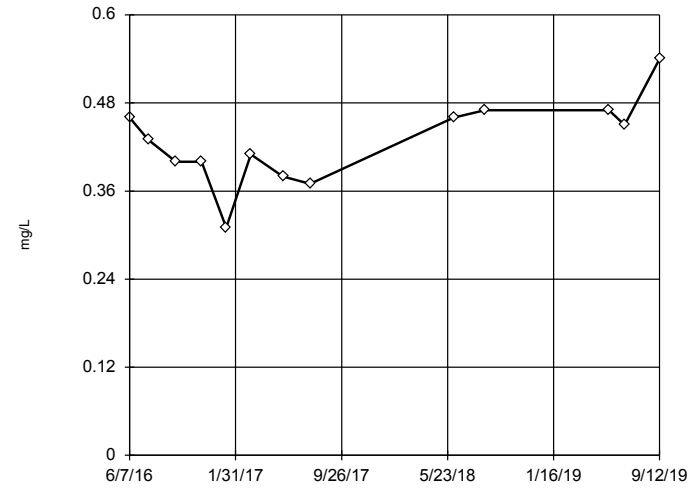
Tukey's Outlier Screening
MW-1606I



n = 13
No outliers found.
Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.3343, low cutoff = 0.08903, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

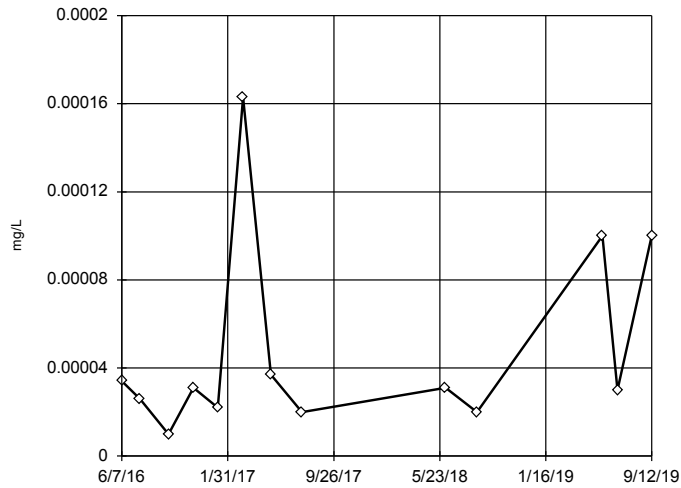
Tukey's Outlier Screening
MW-1606S



n = 13
No outliers found.
Tukey's method selected by user.
Ladder of Powers transformations did not improve normality; analysis run on raw data.
High cutoff = 0.69, low cutoff = 0.165, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

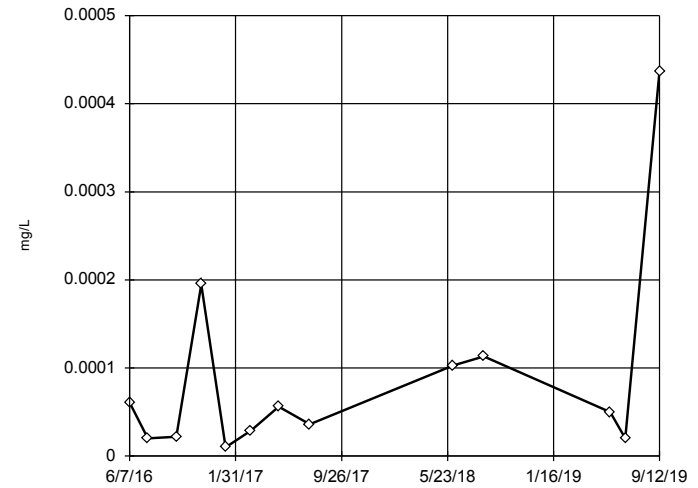
Tukey's Outlier Screening
MW-1002



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.001483, low cutoff = 8.6e-7, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1602D

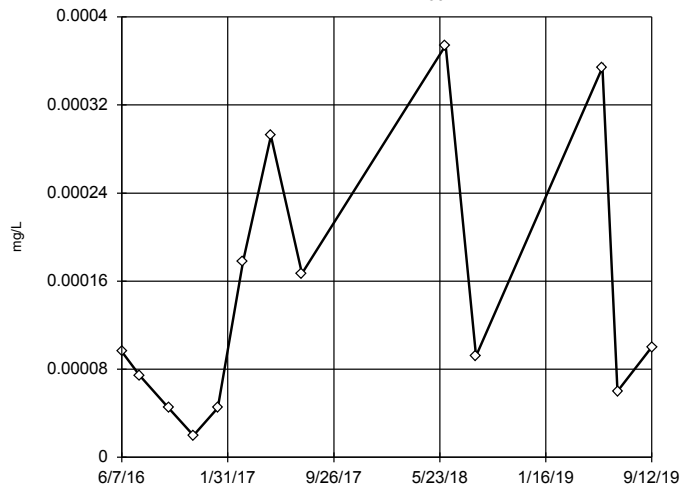


n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.01468, low cutoff = 1.5e-7, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1602I

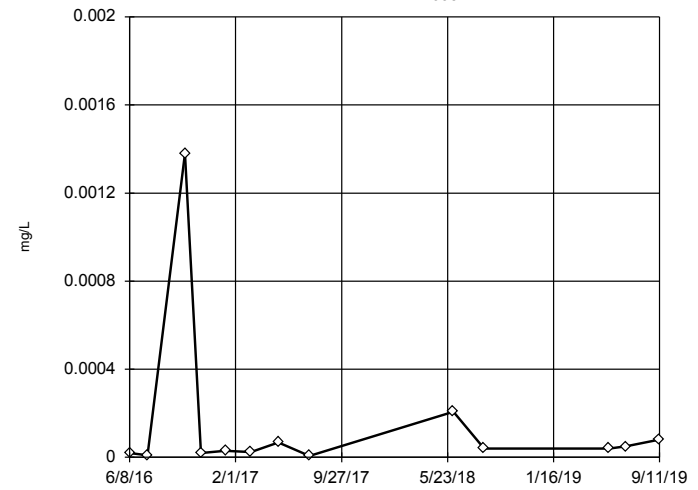


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.01926, low cutoff = 6.2e-7, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603D

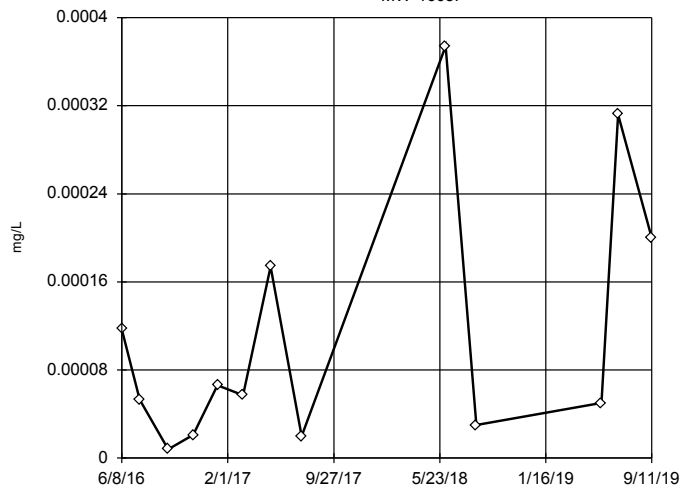


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.003699, low cutoff = 4.0e-7, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

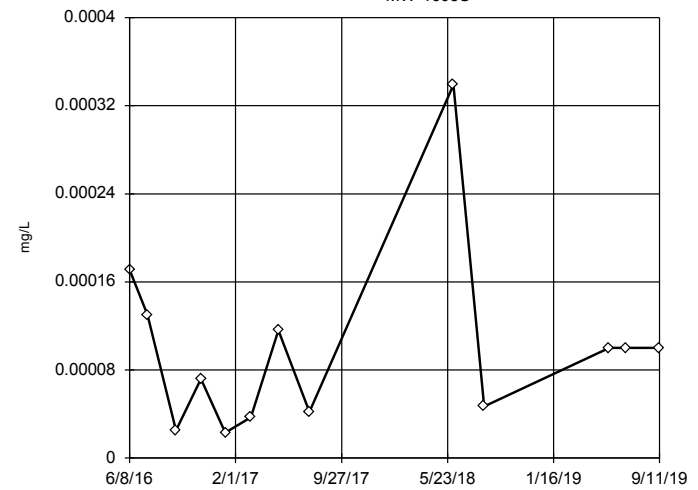


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.07659, low cutoff = 6.1e-8, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

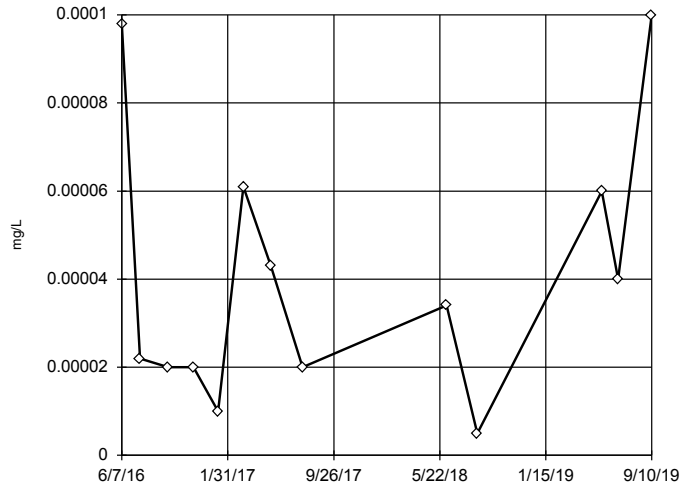
MW-1603S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.003712, low cutoff = 0.00001304, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

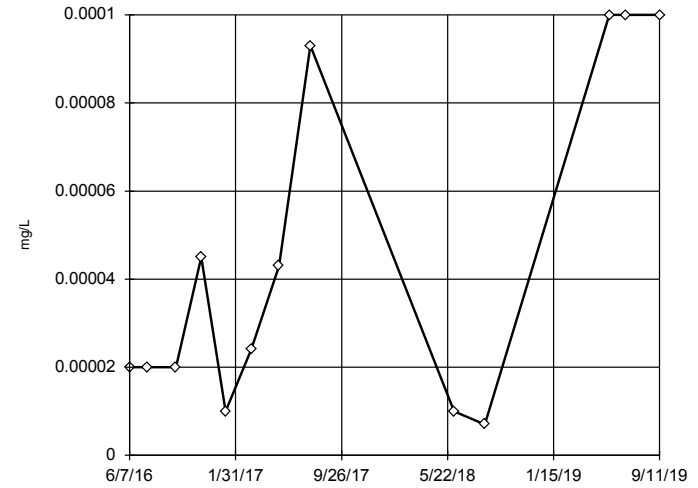
Tukey's Outlier Screening
MW-1604D



n = 13
No outliers found.
Tukey's method selected by user.
Data were cube root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.000432, low cutoff = $-7.8e-7$, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

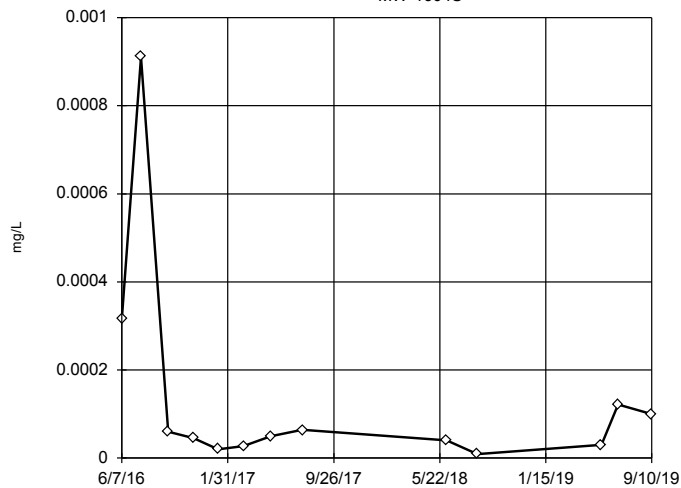
Tukey's Outlier Screening
MW-1604I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.03058, low cutoff = $4.5e-8$, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

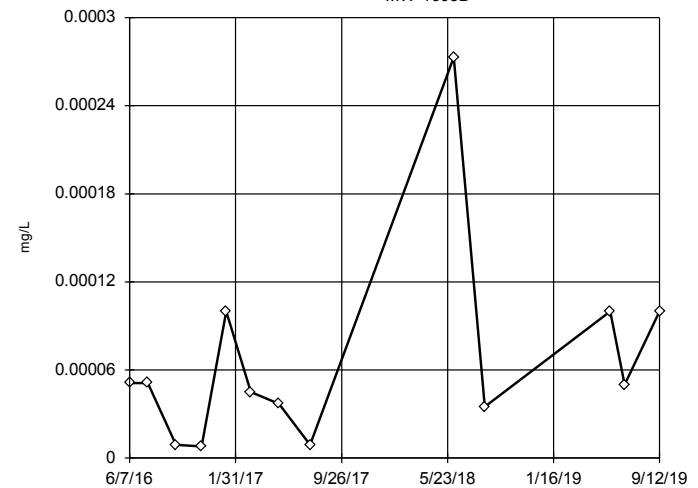
Tukey's Outlier Screening
MW-1604S



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.006456, low cutoff = $4.9e-7$, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

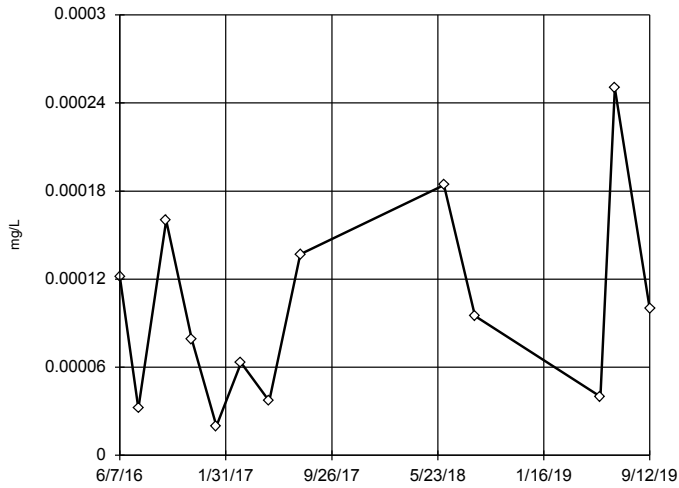
Tukey's Outlier Screening
MW-1605D



n = 13
No outliers found.
Tukey's method selected by user.
Data were cube root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.001171, low cutoff = -0.00003346 , based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

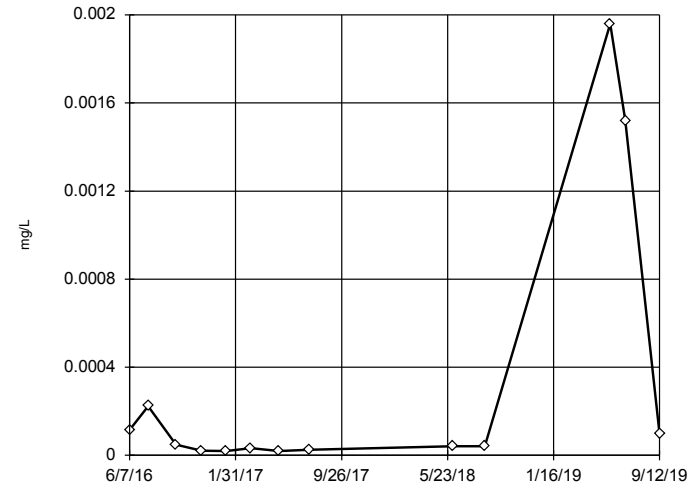
Tukey's Outlier Screening
MW-1605I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001345,
 low cutoff = -0.0001334,
 based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

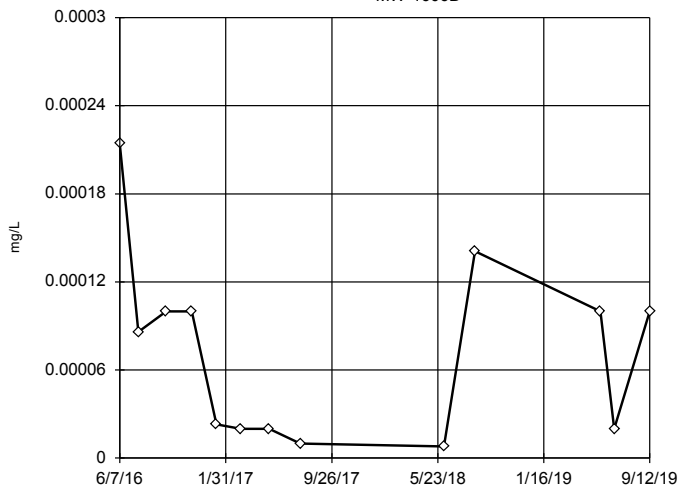
Tukey's Outlier Screening
MW-1605S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.05245,
 low cutoff = 7.2e-8,
 based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

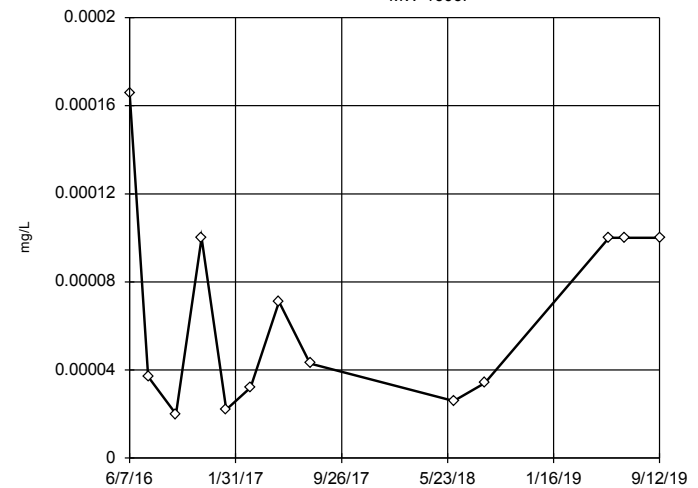
Tukey's Outlier Screening
MW-1606D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001132,
 low cutoff = -0.00002885,
 based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

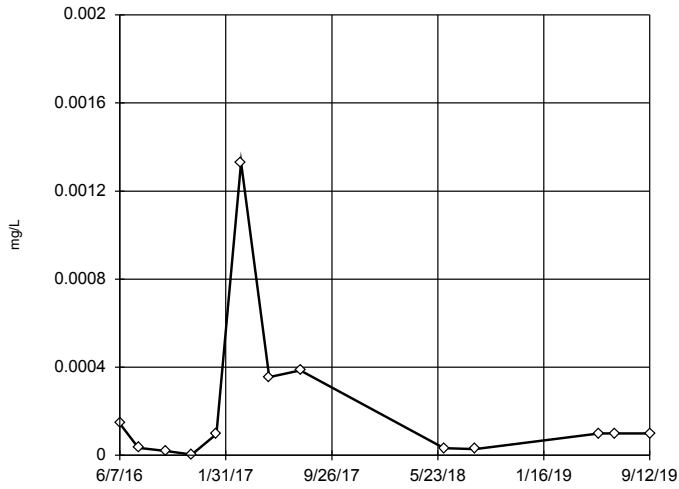
Tukey's Outlier Screening
MW-1606I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.004167,
 low cutoff = 6.9e-7,
 based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

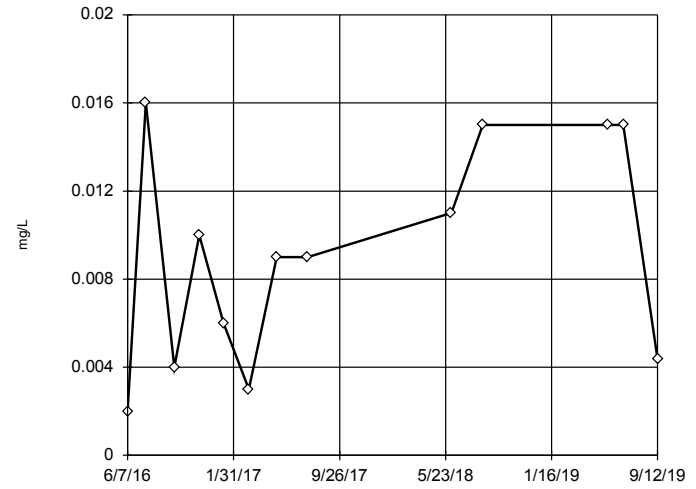
Tukey's Outlier Screening MW-1606S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.09879,
 low cutoff = 6.9e-8, based on IQR multiplier of 3.

Constituent: Lead, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

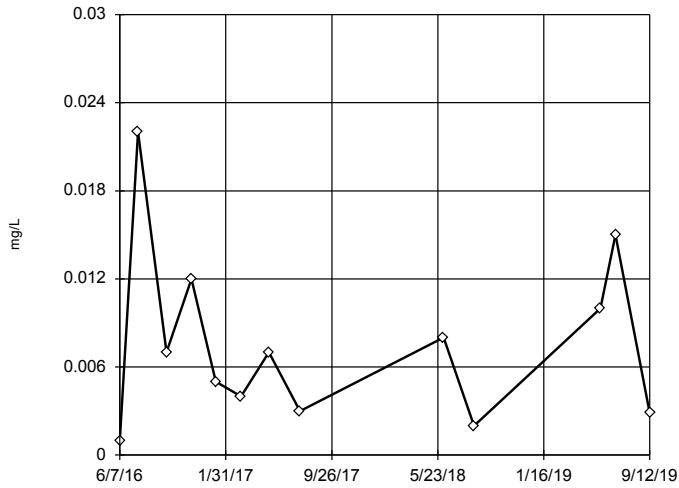
Tukey's Outlier Screening MW-1002



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.08747,
 low cutoff = -0.01179, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

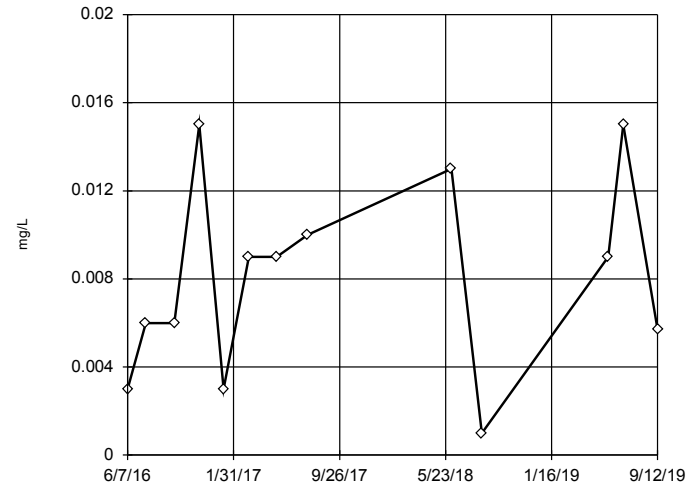
Tukey's Outlier Screening MW-1602D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.09703,
 low cutoff = -0.0008369, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1602I

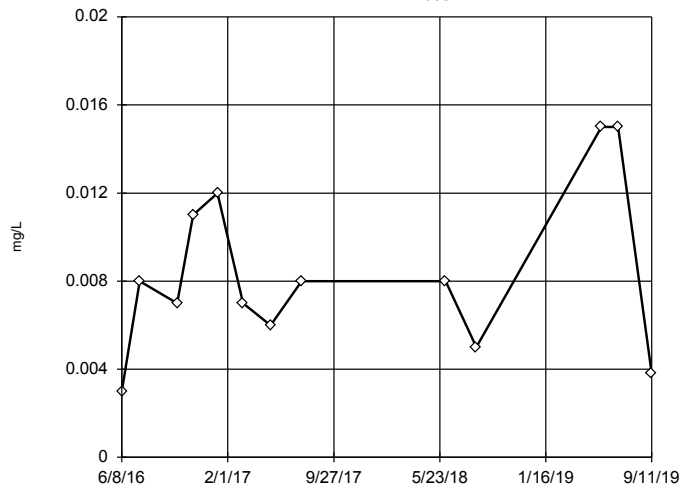


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.05402,
 low cutoff = -0.003627, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:10 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603D



n = 13

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

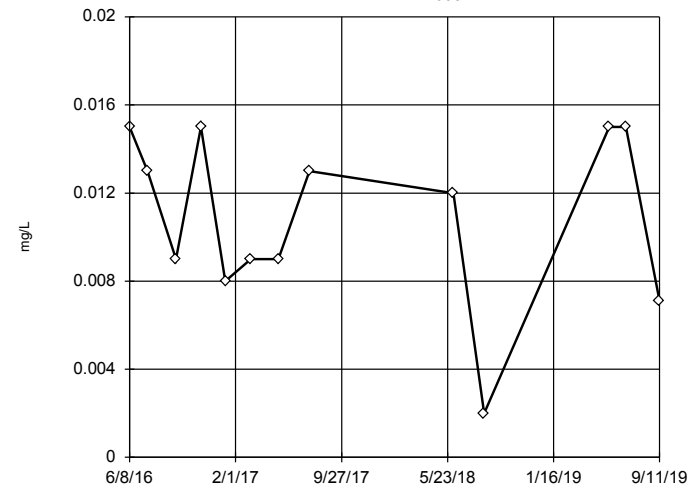
Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.05215, low cutoff = 0.0002293, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:10 AM Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I



n = 13

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

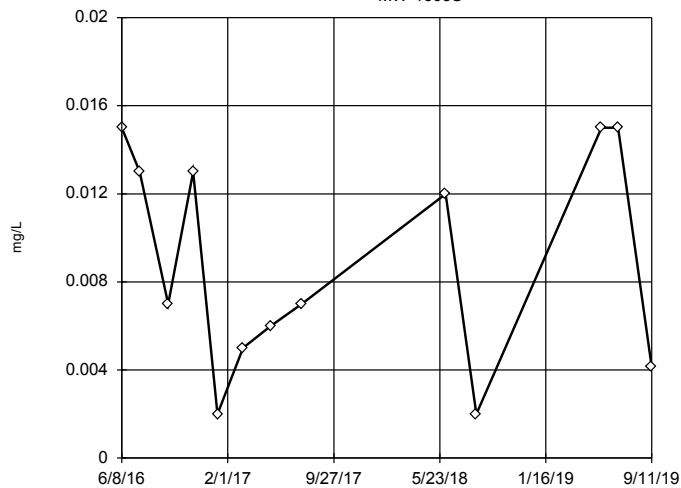
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.02612, low cutoff = -0.01962, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:10 AM Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S



n = 13

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

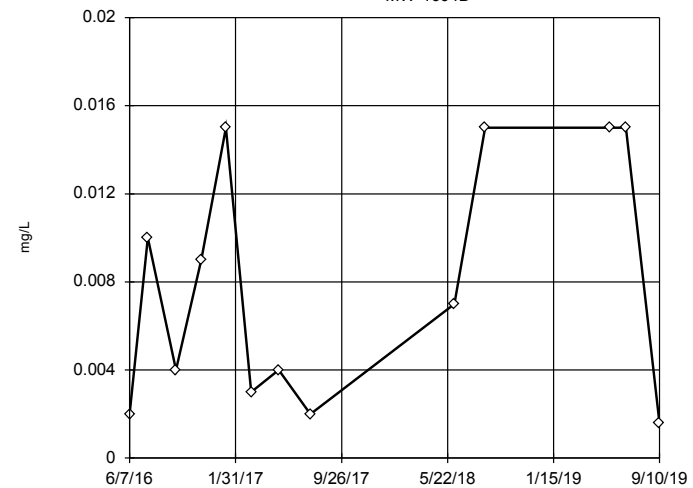
Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.07312, low cutoff = -0.007162, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:10 AM Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D



n = 13

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

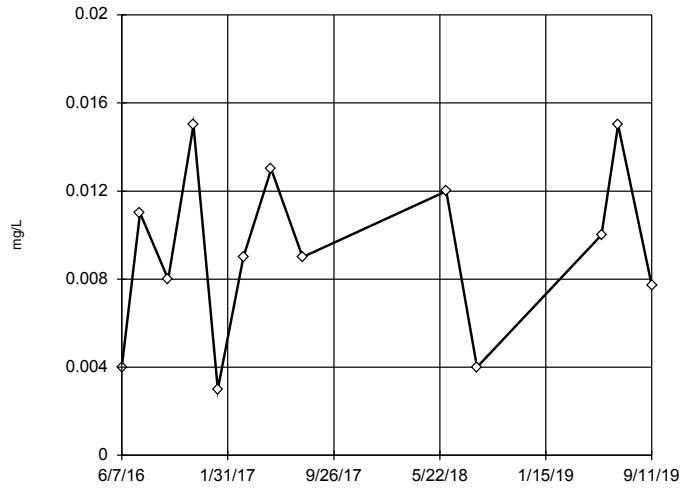
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3.445, low cutoff = 0.00001067, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:10 AM Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604I

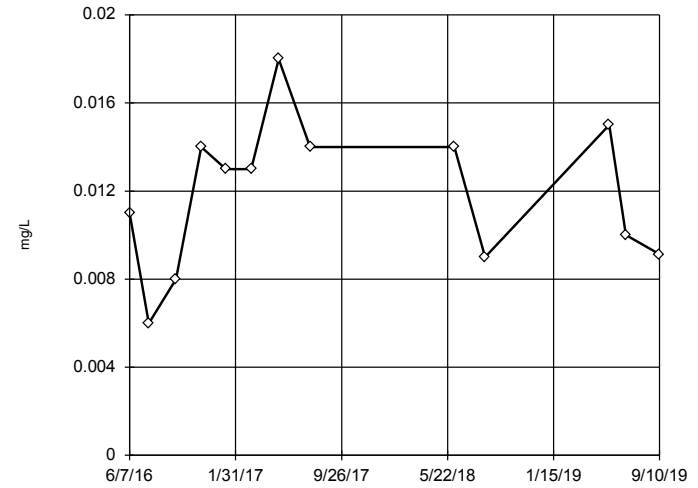


n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 0.03242, low cutoff = -0.01406, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S

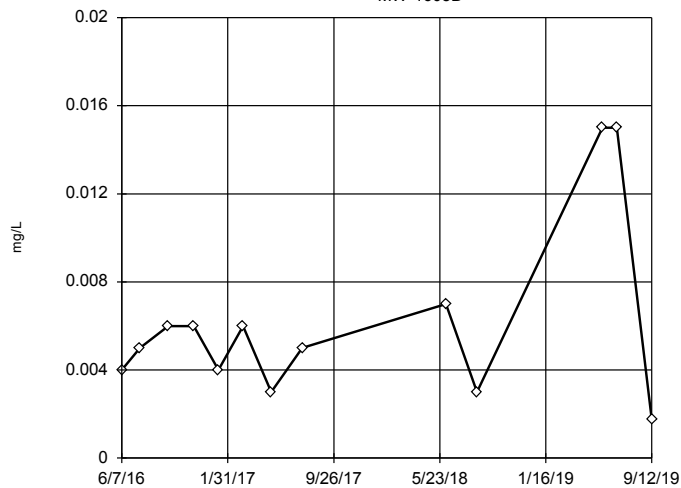


n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 0.02881, low cutoff = -0.00574, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605D

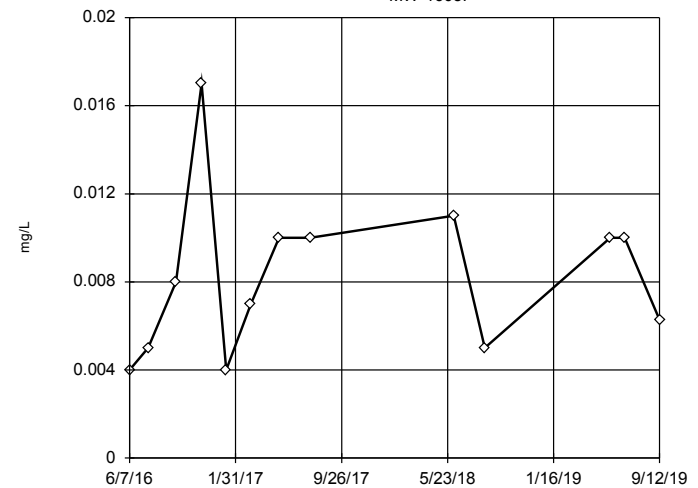


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.04244, low cutoff = 0.000529, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

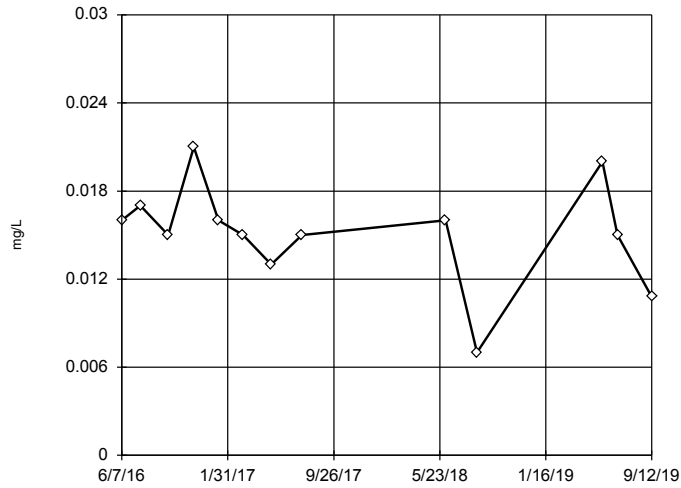
MW-1605I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.08, low cutoff = 0.000625, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

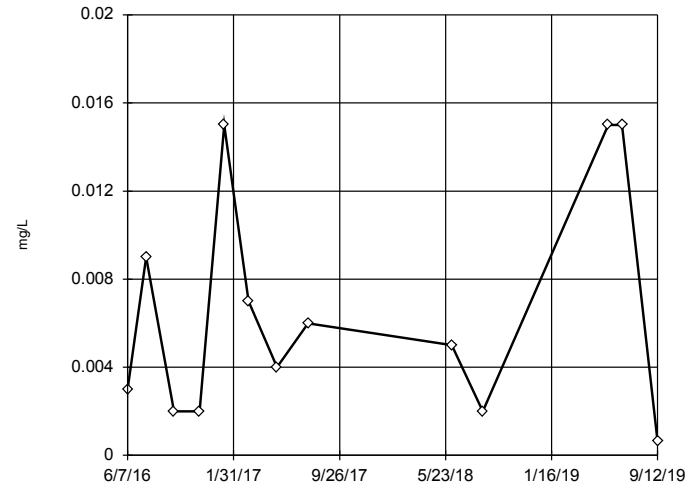
Tukey's Outlier Screening
MW-1605S



n = 13
No outliers found.
Tukey's method selected by user.
Data were square transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.02234, low cutoff = -0.005431, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

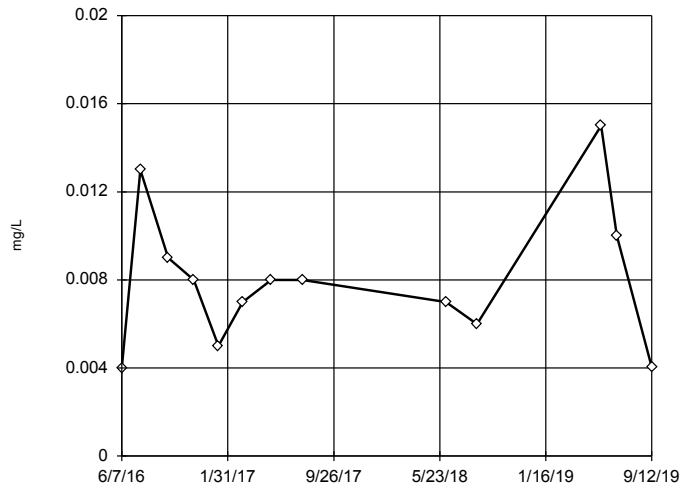
Tukey's Outlier Screening
MW-1606D



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 2.278, low cutoff = 0.0000102, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

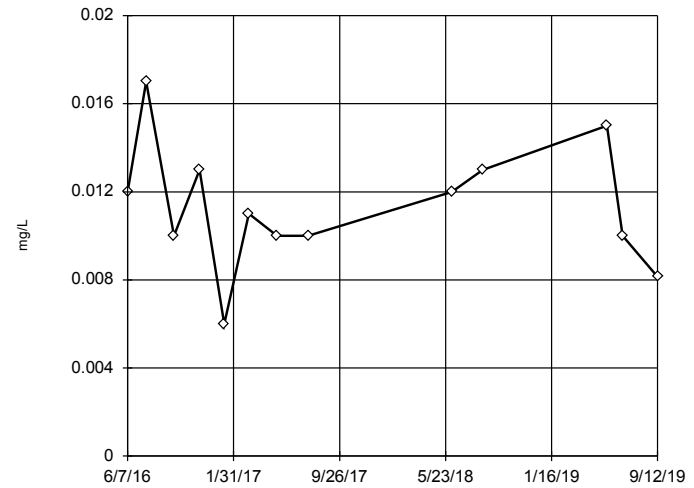
Tukey's Outlier Screening
MW-1606I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.0493, low cutoff = 0.001054, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

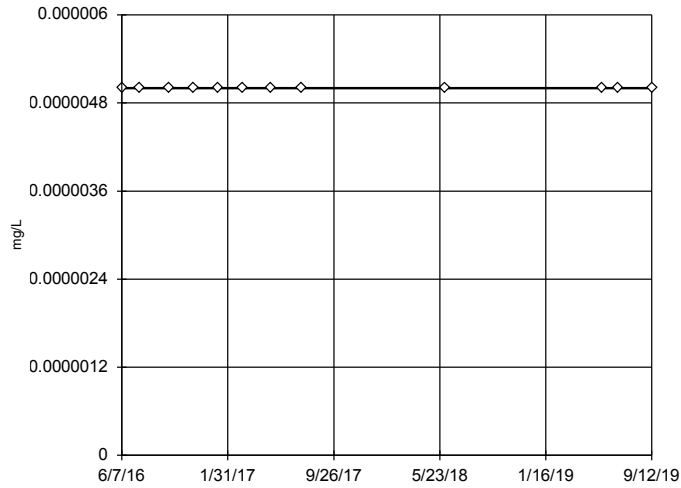
Tukey's Outlier Screening
MW-1606S



n = 13
No outliers found.
Tukey's method selected by user.
Ladder of Powers transformations did not improve normality, analysis run on raw data.
High cutoff = 0.022, low cutoff = 0.001, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

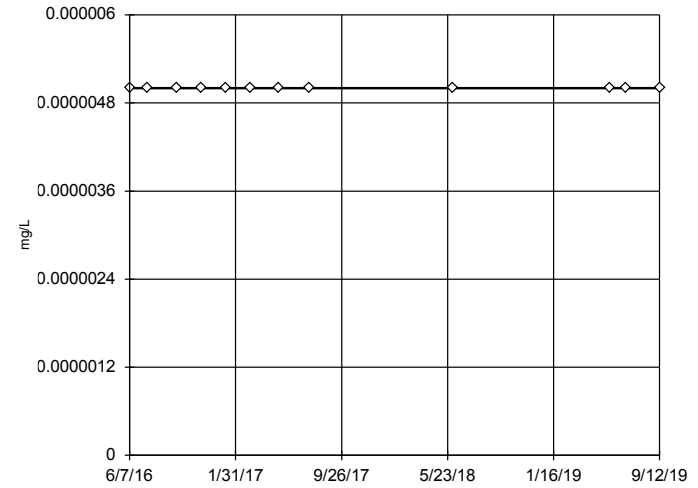
Tukey's Outlier Screening MW-1002



n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

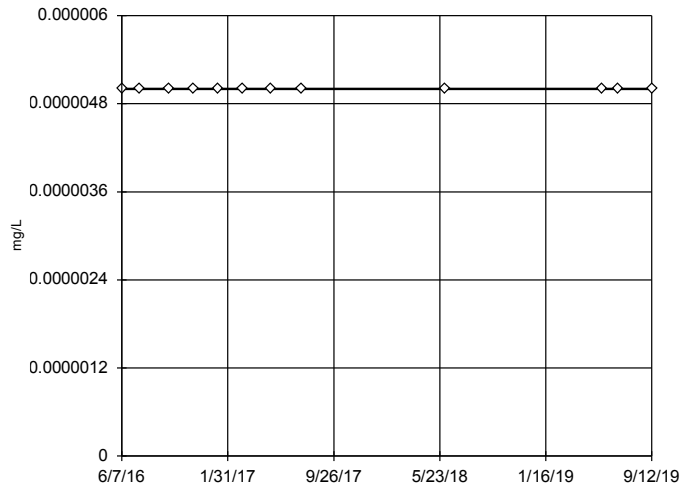
Tukey's Outlier Screening MW-1602D



n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

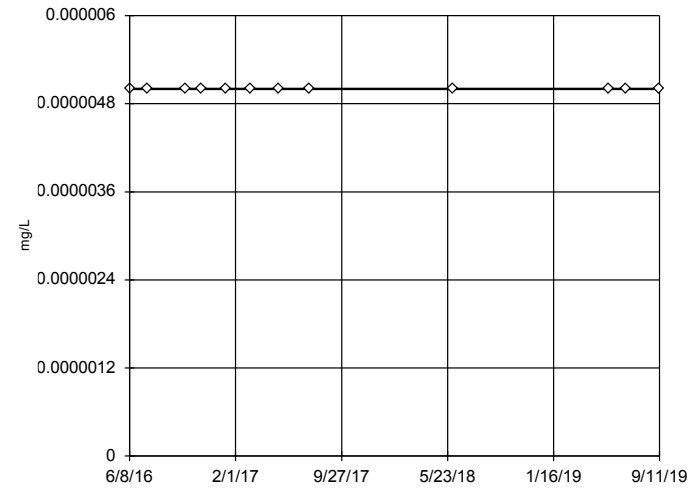
Tukey's Outlier Screening MW-1602I



n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1603D

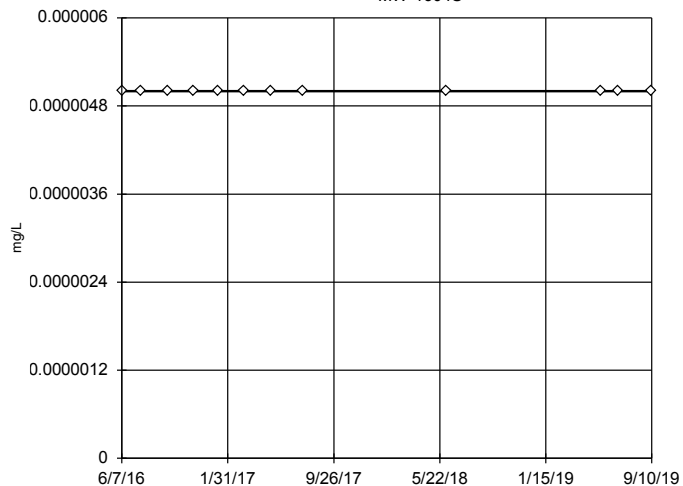


n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S

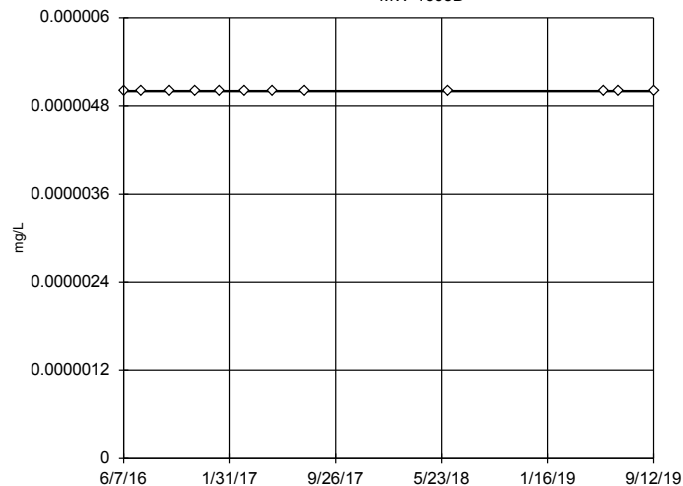


n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605D

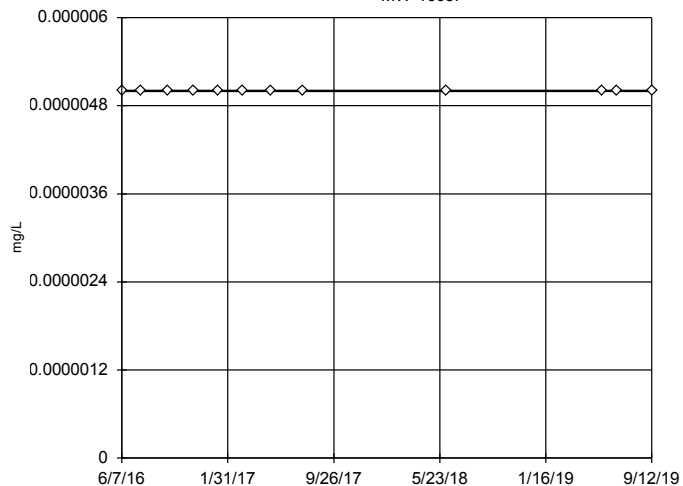


n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605I

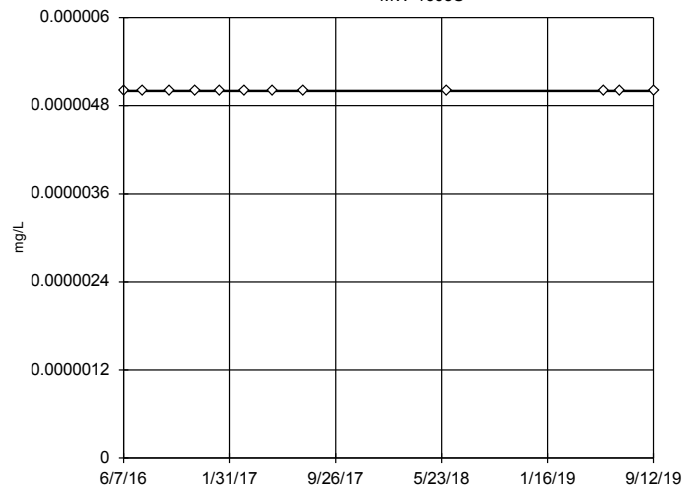


n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

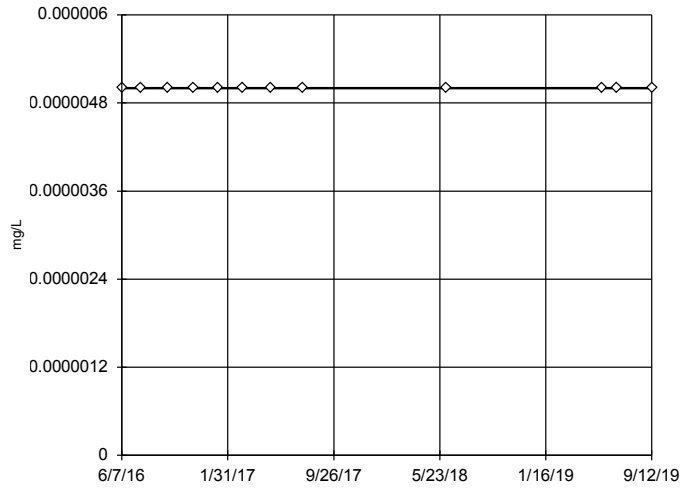
MW-1605S



n = 12
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

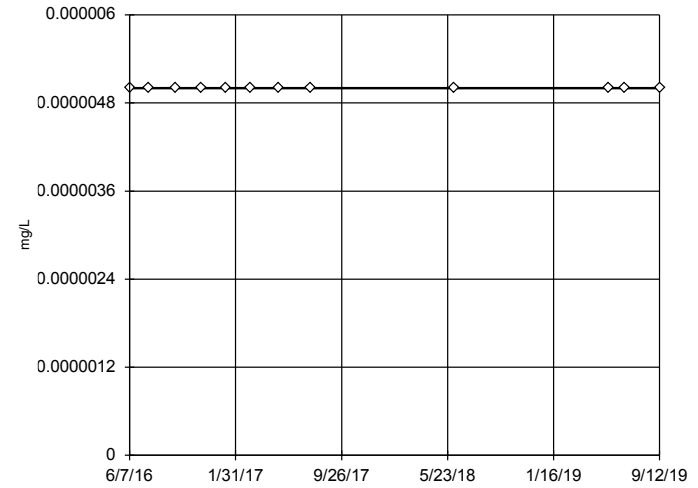
Tukey's Outlier Screening MW-1606D



n = 12
 No outliers found. Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

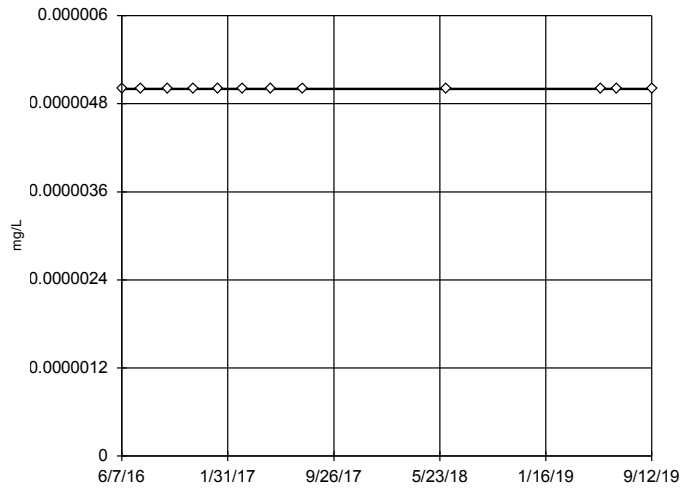
Tukey's Outlier Screening MW-1606I



n = 12
 No outliers found. Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

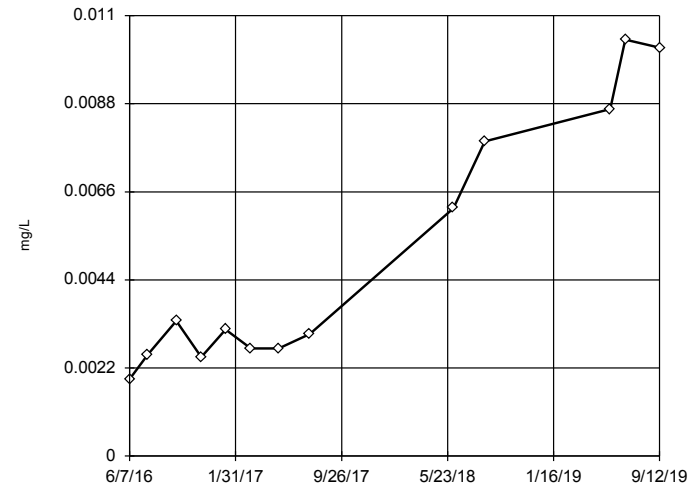
Tukey's Outlier Screening MW-1606S



n = 12
 No outliers found. Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

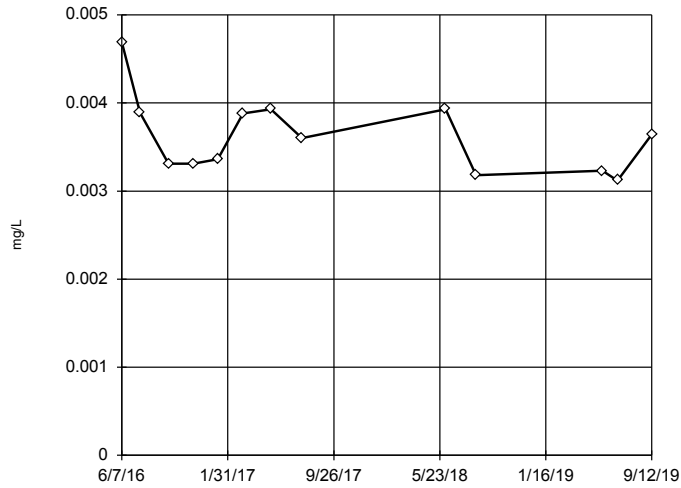
Tukey's Outlier Screening MW-1002



n = 13
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.26, low cutoff = 0.00008299, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

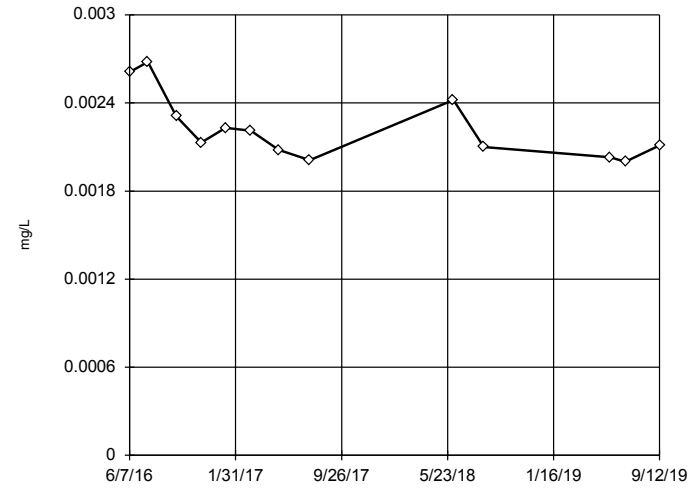
Tukey's Outlier Screening
MW-1602D



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.006686, low cutoff = 0.001912, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

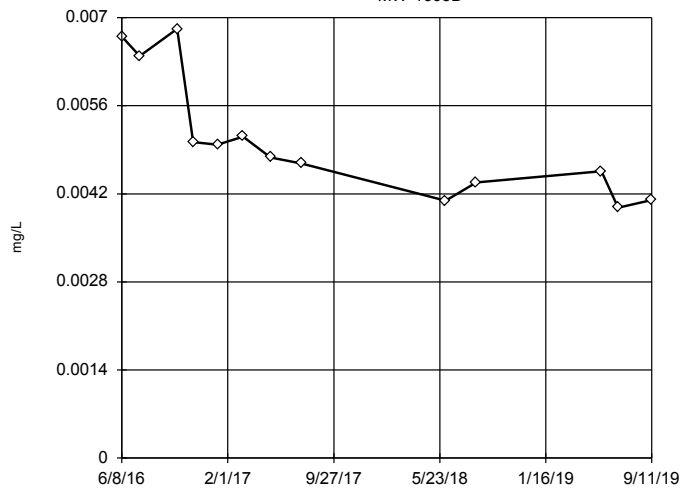
Tukey's Outlier Screening
MW-1602I



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.003602, low cutoff = 0.001349, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

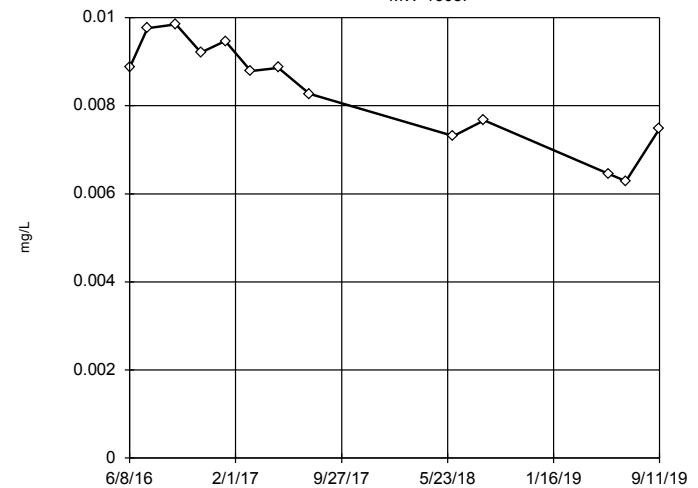
Tukey's Outlier Screening
MW-1603D



n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.01401, low cutoff = 0.001728, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1603I

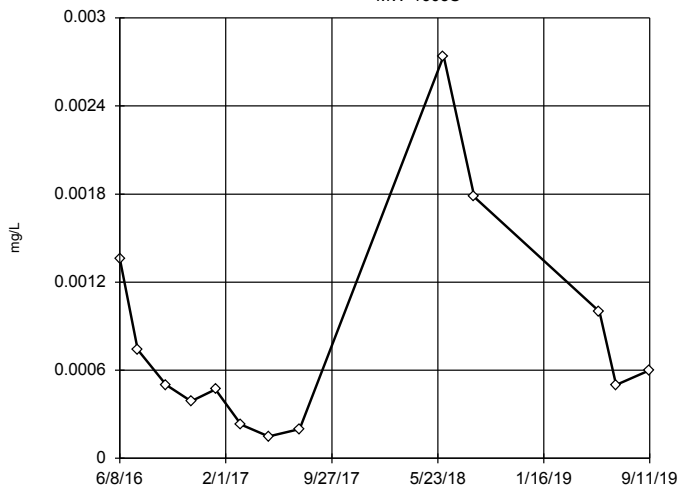


n = 13
No outliers found.
Tukey's method selected by user.
Data were cube transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.0127, low cutoff = -0.009388, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S

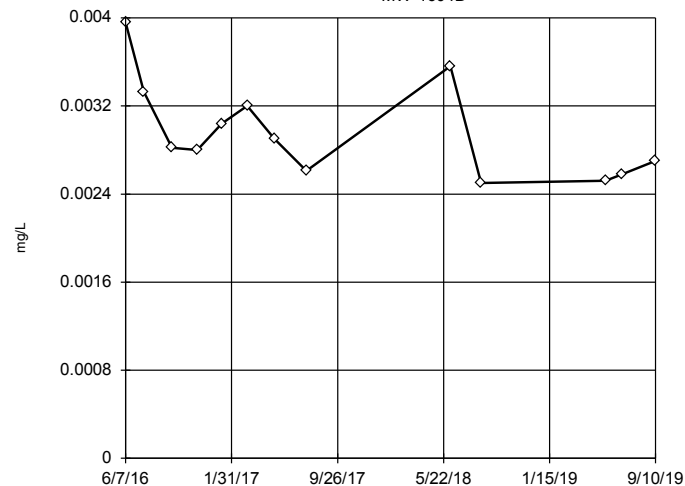


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.06885,
 low cutoff = 0.00005073,
 based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D

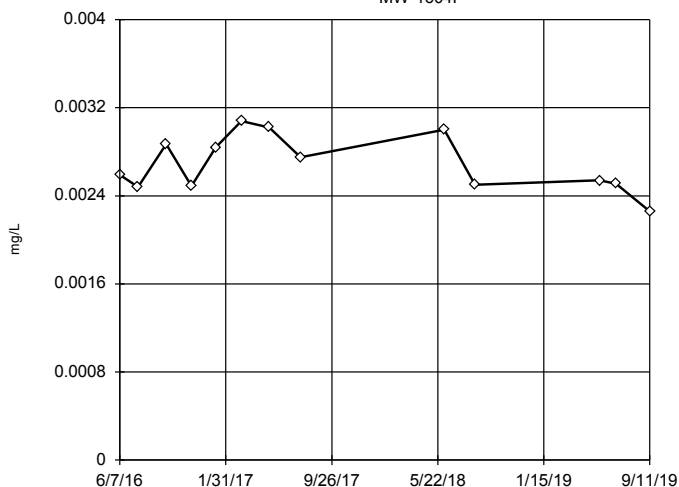


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.006498,
 low cutoff = 0.001304,
 based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604I

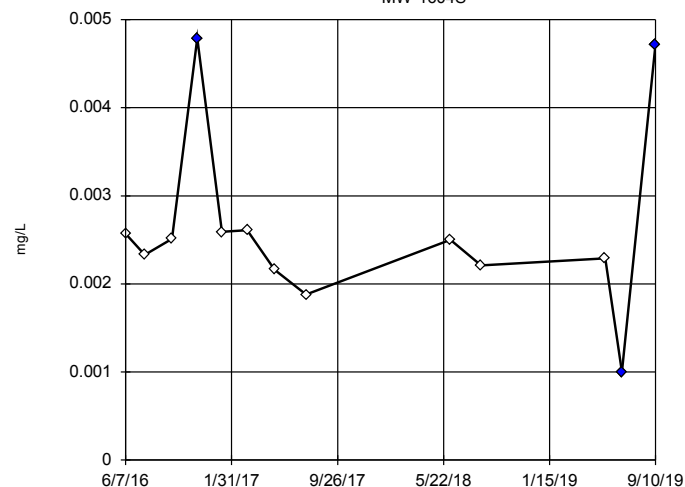


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.004773,
 low cutoff = 0.001534,
 based on IQR multiplier of 3.

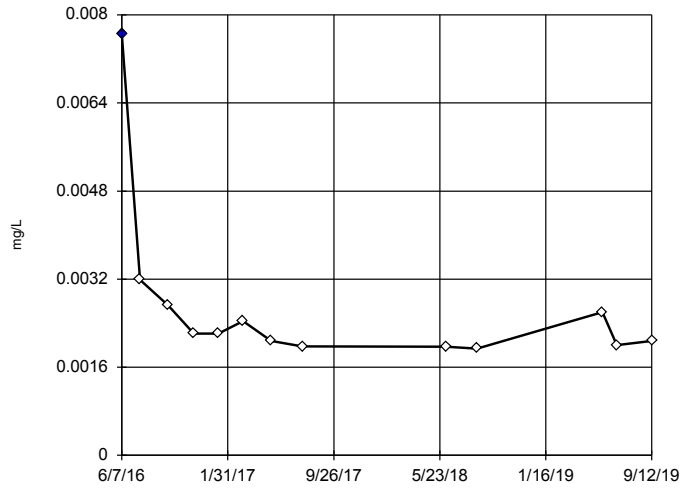
Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S



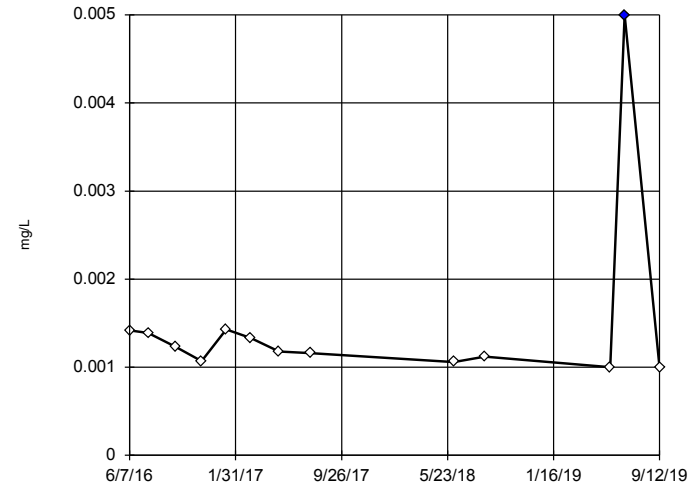
Tukey's Outlier Screening MW-1605D



n = 13
Outlier is drawn as solid.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.006347, low cutoff = 0.0008338, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

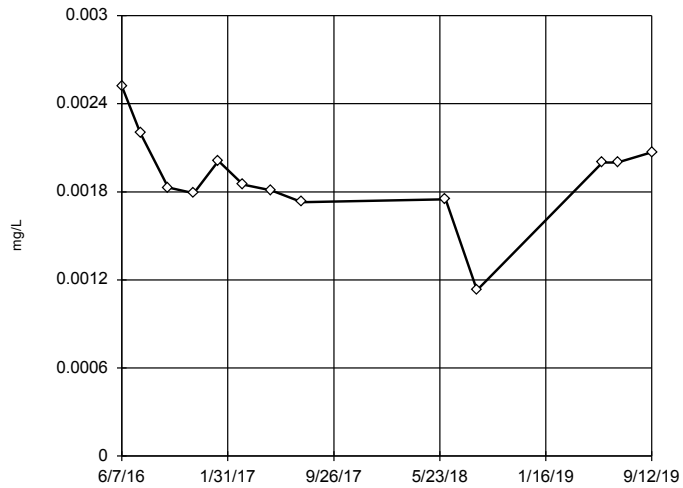
Tukey's Outlier Screening MW-1605I



n = 13
Outlier is drawn as solid.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.003225, low cutoff = 0.0004639, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

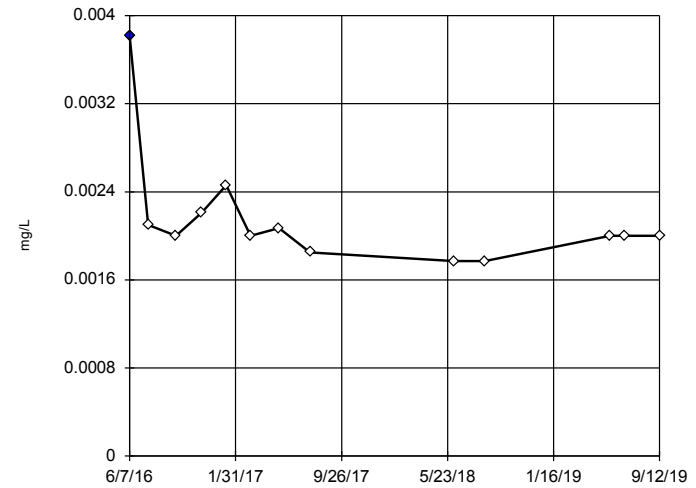
Tukey's Outlier Screening MW-1605S



n = 13
No outliers found.
Tukey's method selected by user.
Data were square transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.002693, low cutoff = 0.0002138, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1606D

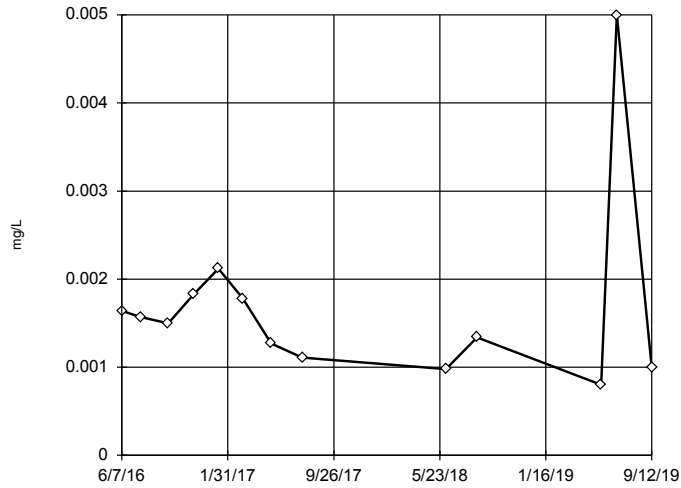


n = 13
Outlier is drawn as solid.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.003026, low cutoff = 0.001369, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606I

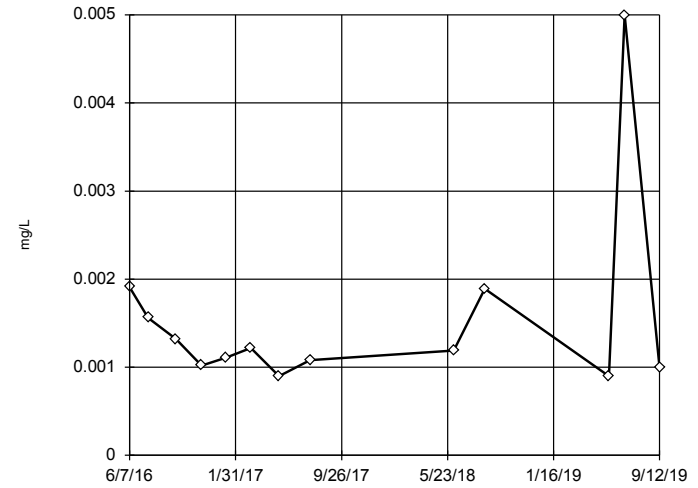


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.009073, low cutoff = 0.0002096, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606S

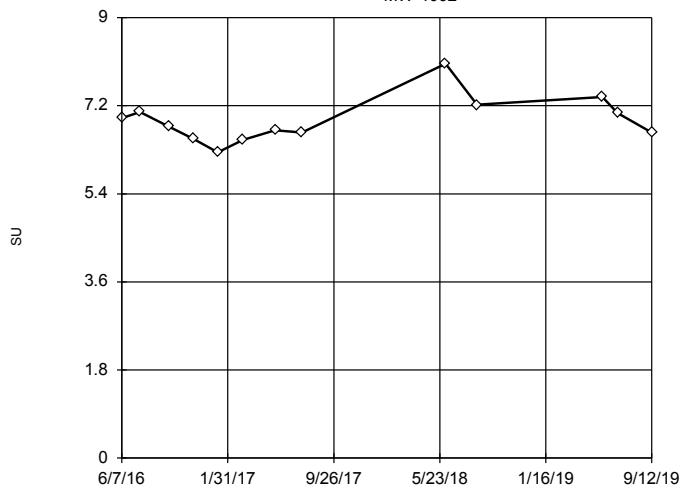


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.008439, low cutoff = 0.0002055, based on IQR multiplier of 3.

Constituent: Molybdenum, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1002

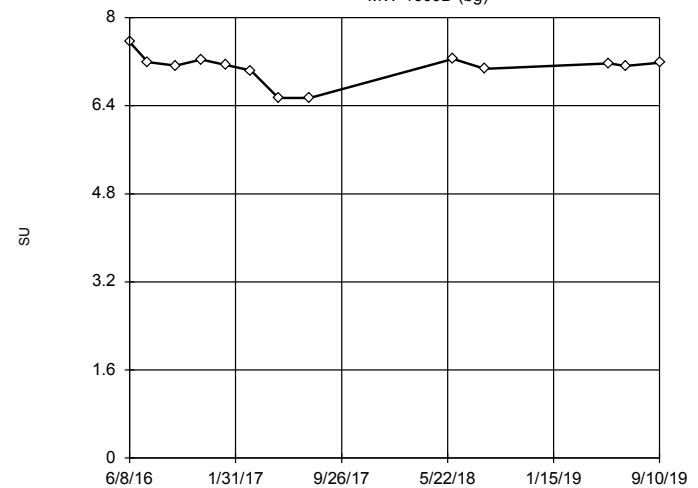


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 9.127, low cutoff = 5.155, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

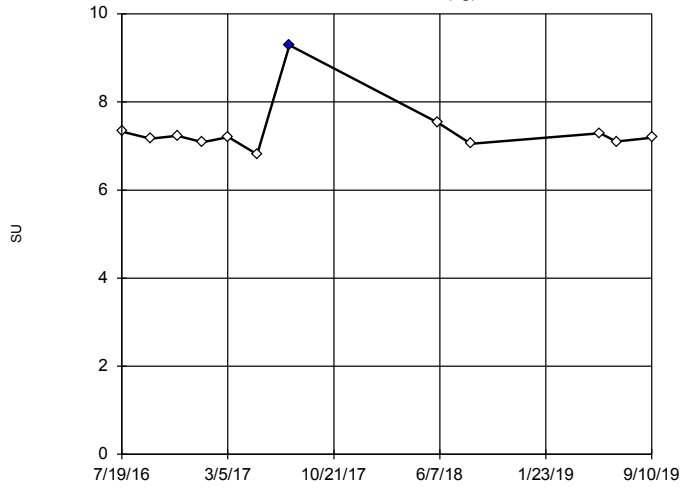
MW-1600D (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were x^6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.611, low cutoff = 6.419, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

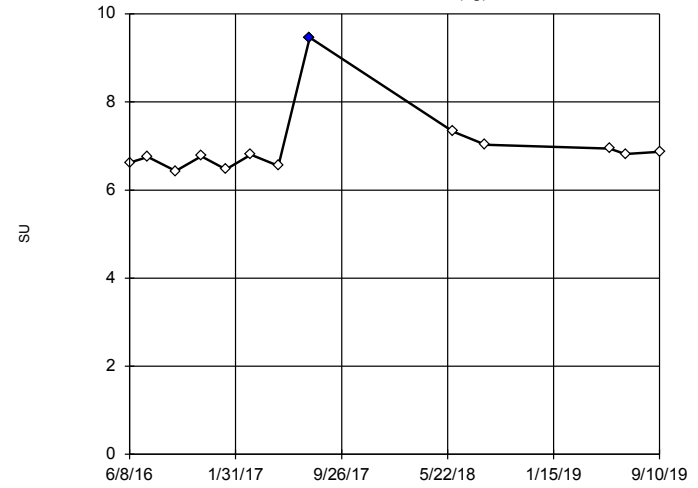
Tukey's Outlier Screening
MW-1600I (bg)



n = 12
 Outlier is drawn as solid. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.995, low cutoff = 6.487, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

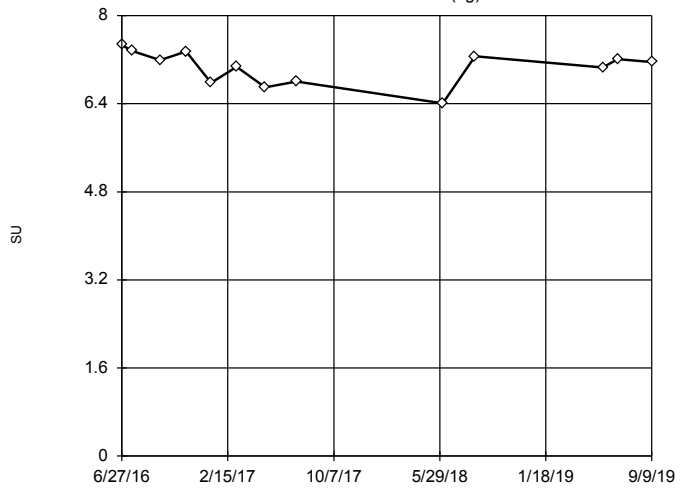
Tukey's Outlier Screening
MW-1600S (bg)



n = 13
 Outlier is drawn as solid. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.336, low cutoff = 5.517, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

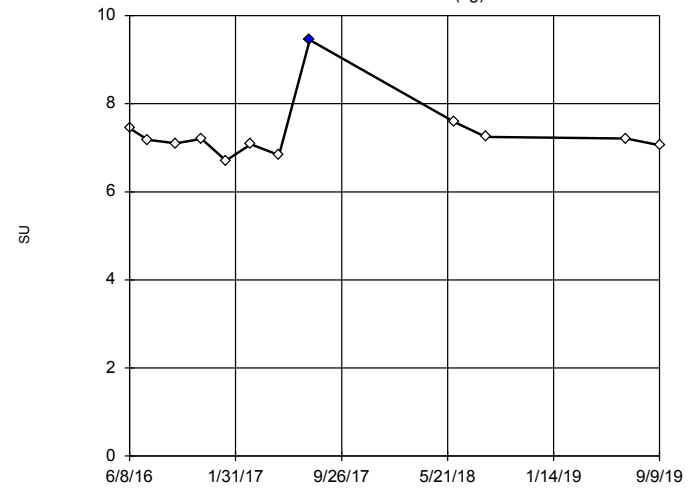
Tukey's Outlier Screening
MW-1601D (bg)



n = 13
 No outliers found. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.245, low cutoff = -6.327, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

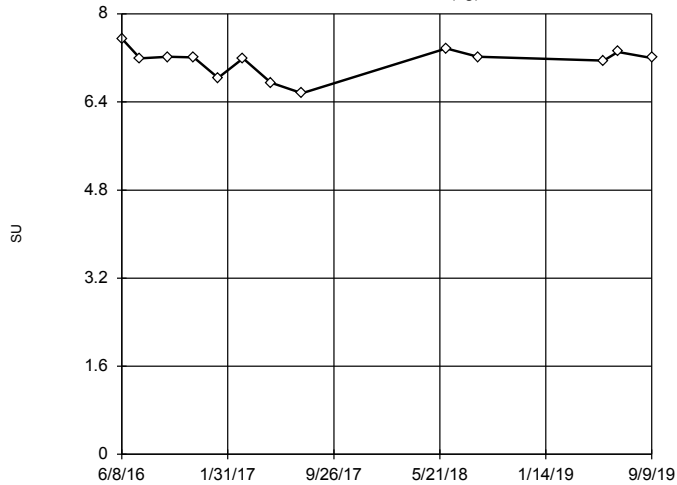
Tukey's Outlier Screening
MW-1601I (bg)



n = 12
 Outlier is drawn as solid. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.233, low cutoff = 6.307, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

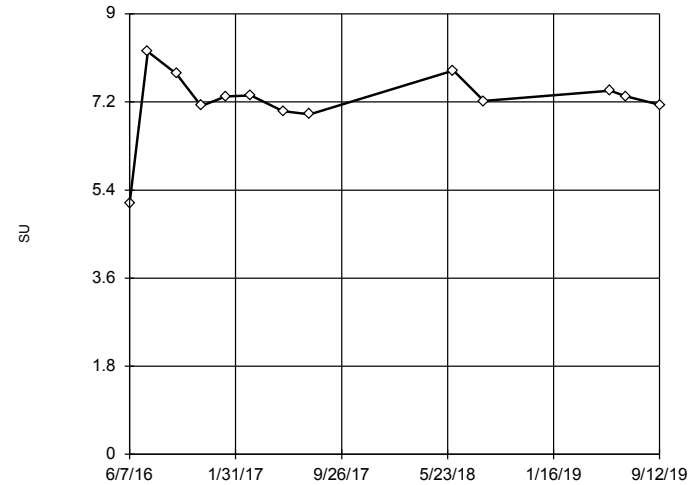
Tukey's Outlier Screening
MW-1601S (bg)



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.852, low cutoff = 5.595, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

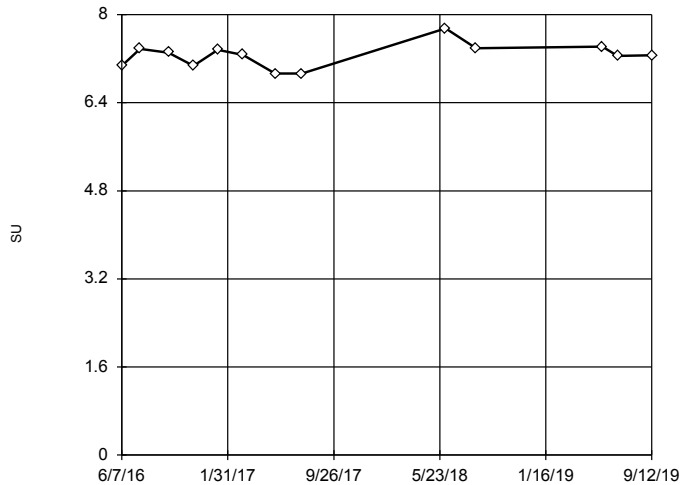
Tukey's Outlier Screening
MW-1602D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.607, low cutoff = -6.658, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

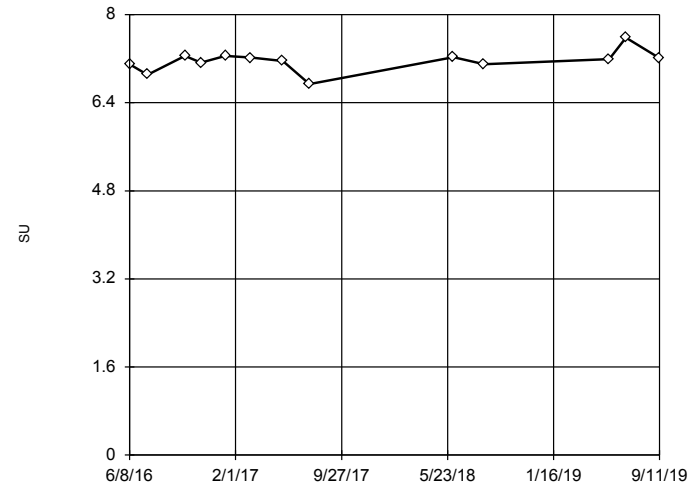
Tukey's Outlier Screening
MW-1602I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.417, low cutoff = 6.203, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1603D

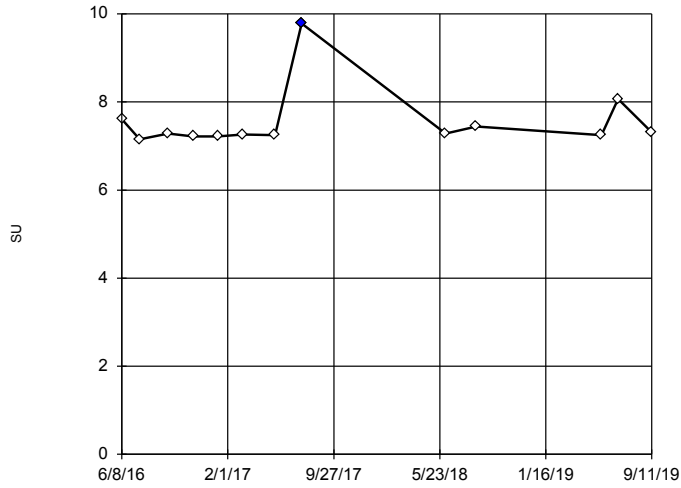


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.645, low cutoff = 6.662, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

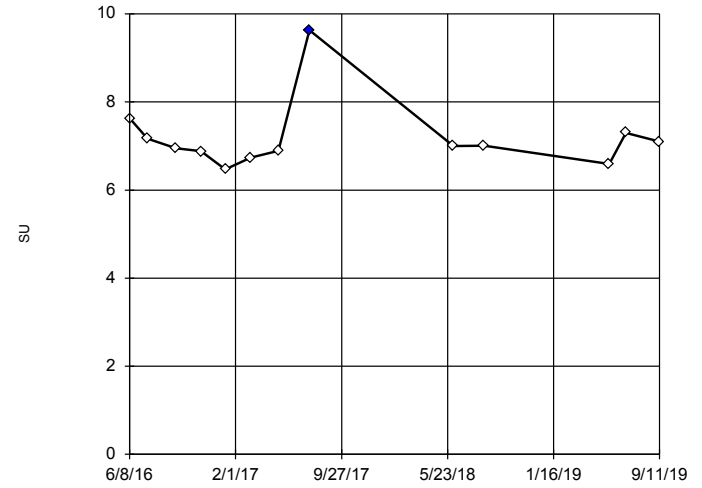


n = 13
 Outlier is drawn as solid. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.465, low cutoff = 6.432, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603S

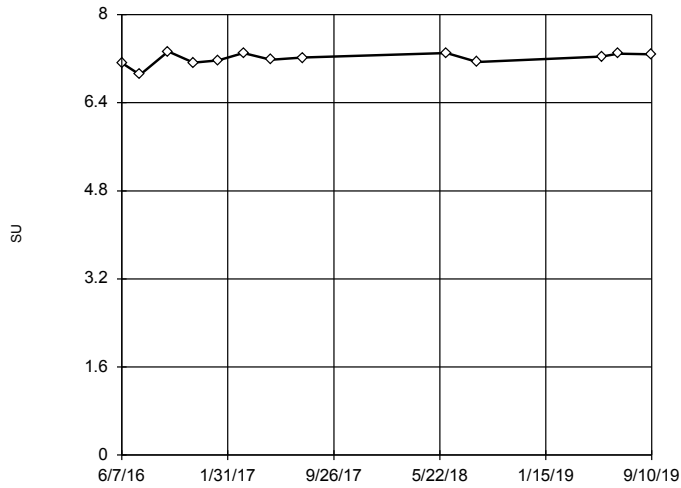


n = 13
 Outlier is drawn as solid. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.676, low cutoff = 5.679, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604D

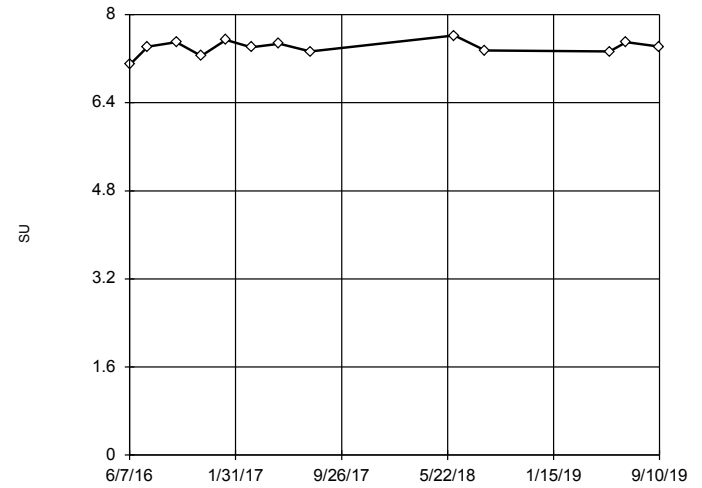


n = 13
 No outliers found. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.692, low cutoff = 6.503, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

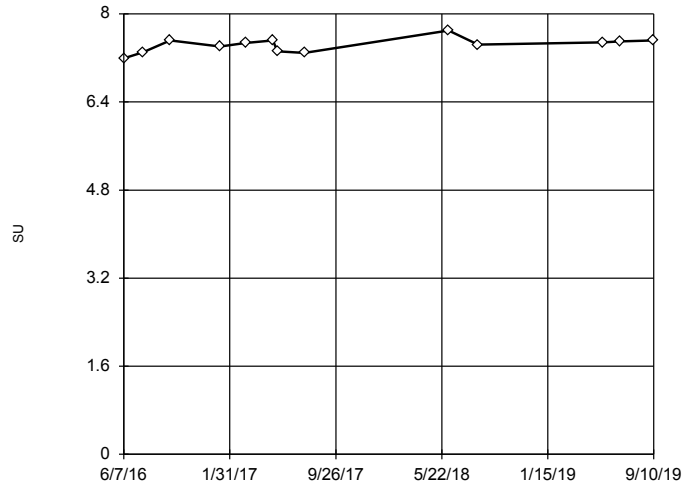
MW-1604I



n = 13
 No outliers found. Tukey's method selected by user.
 Data were x*6 transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.919, low cutoff = 6.65, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

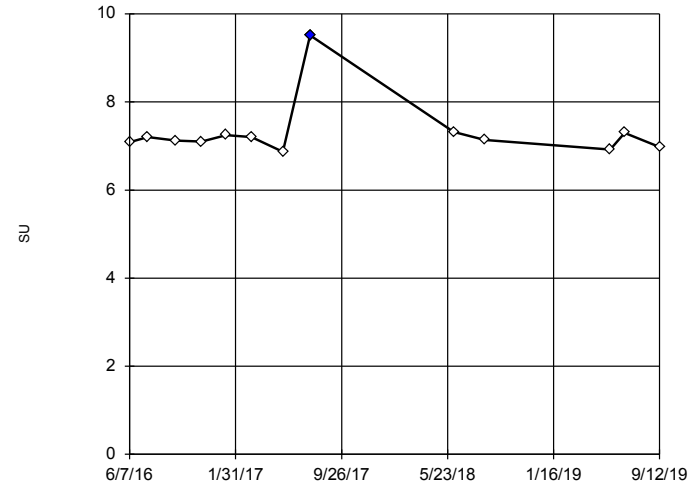
Tukey's Outlier Screening
MW-1604S



n = 13
No outliers found.
Tukey's method selected by user.
Data were square root transformed to achieve best W statistic (graph shown in original units).
High cutoff = 8.168, low cutoff = 6.698, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

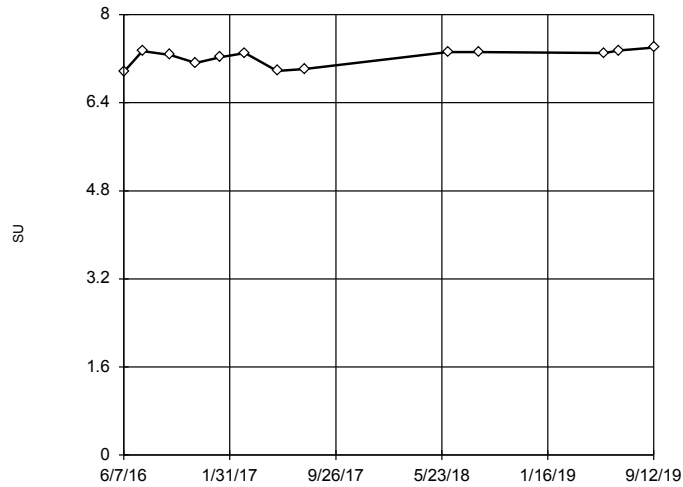
Tukey's Outlier Screening
MW-1605D



n = 13
Outlier is drawn as solid. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 8.046, low cutoff = 6.361, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

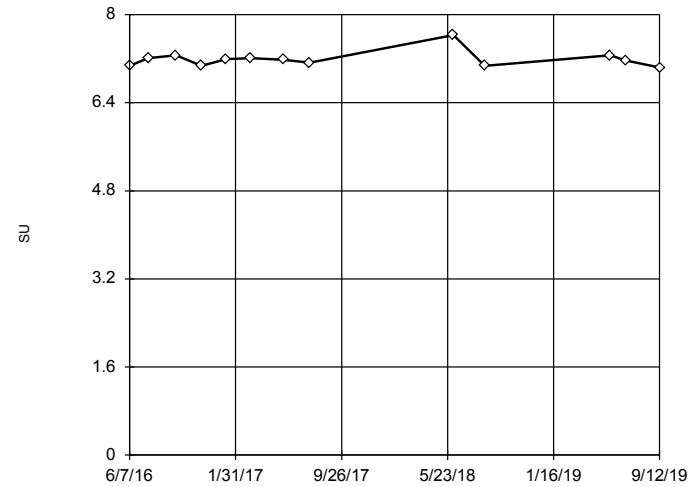
Tukey's Outlier Screening
MW-1605I



n = 13
No outliers found.
Tukey's method selected by user.
Data were x*6 transformed to achieve best W statistic (graph shown in original units).
High cutoff = 7.921, low cutoff = 5.651, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening
MW-1605S

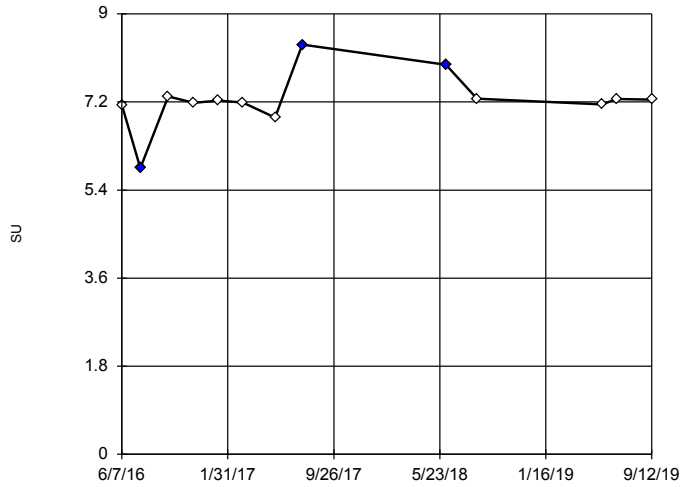


n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 7.753, low cutoff = 6.597, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606D



n = 13

Outliers are drawn as solid. Tukey's method selected by user.

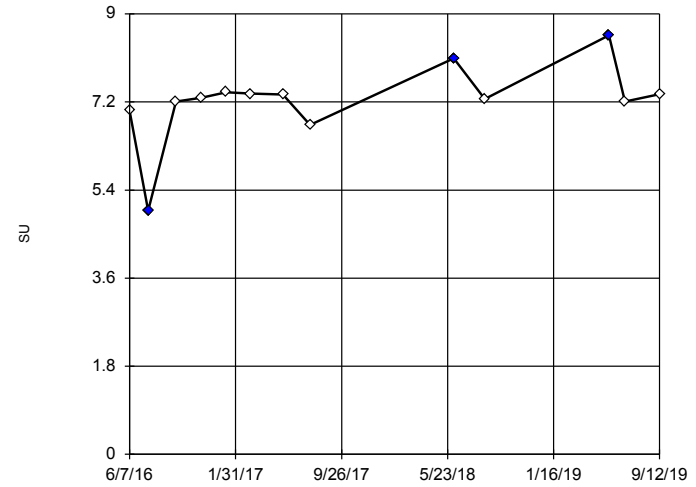
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.709, low cutoff = 6.691, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606I



n = 13

Outliers are drawn as solid. Tukey's method selected by user.

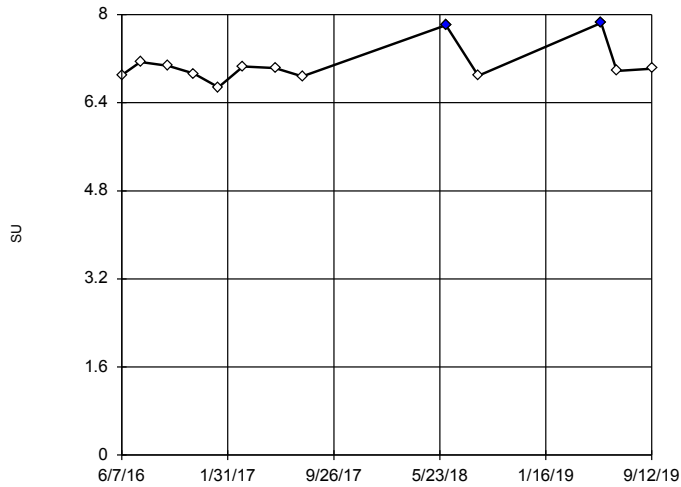
Data were x^4 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 8.051, low cutoff = 6.048, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606S



n = 13

Outliers are drawn as solid. Tukey's method selected by user.

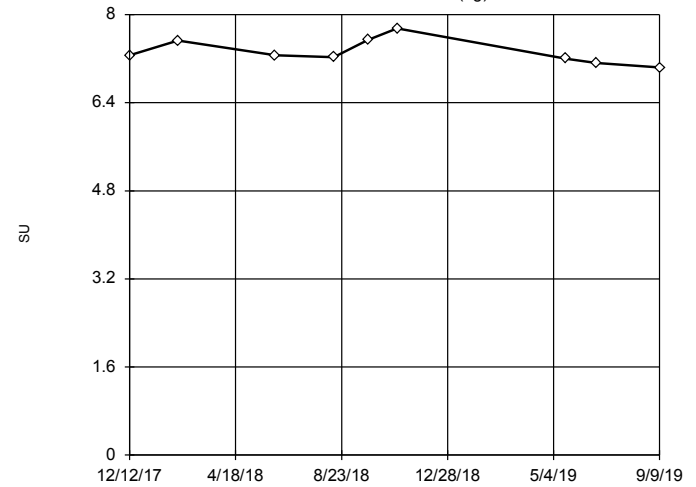
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.774, low cutoff = 6.302, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1701D (bg)



n = 9

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

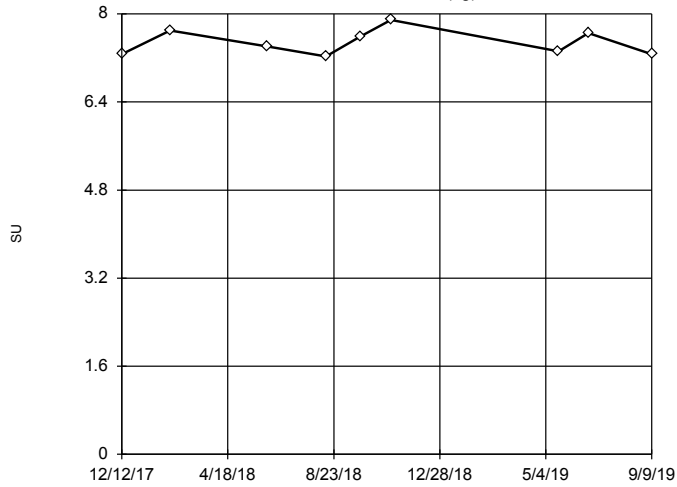
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 8.782, low cutoff = 6.143, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1701I (bg)

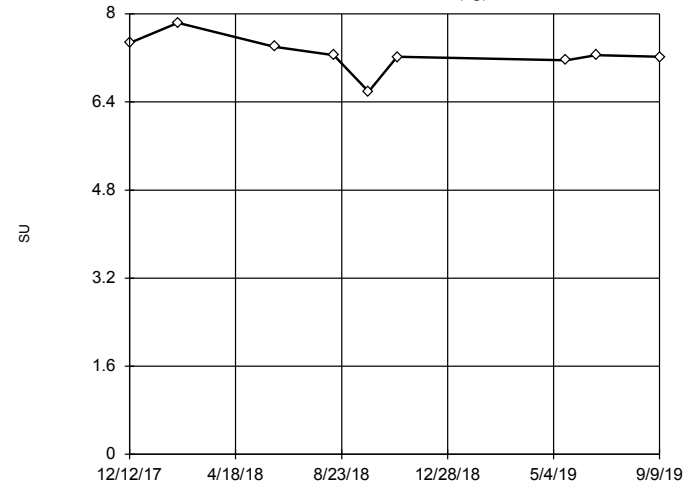


n = 9
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 9.03, low cutoff = 6.179, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1701S (bg)

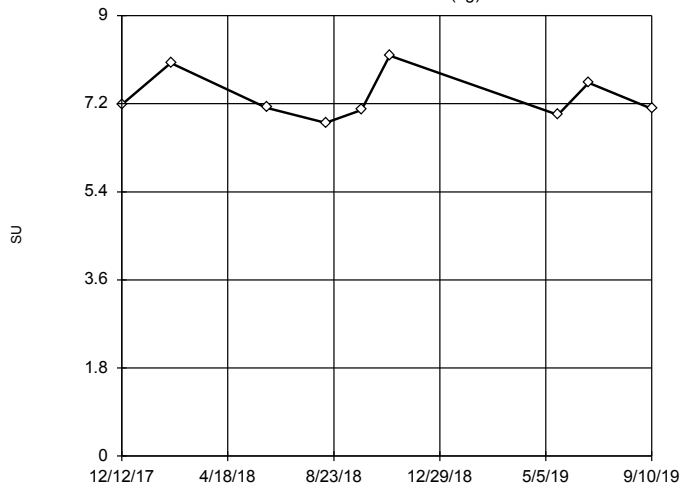


n = 9
 No outliers found.
 Tukey's method selected by user.
 Data were x⁴ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 8.053, low cutoff = 6.247, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1702D (bg)

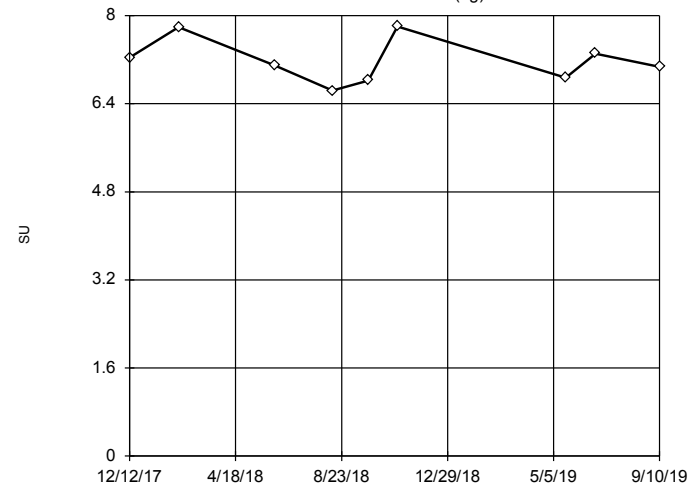


n = 9
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 10.85, low cutoff = 5.063, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

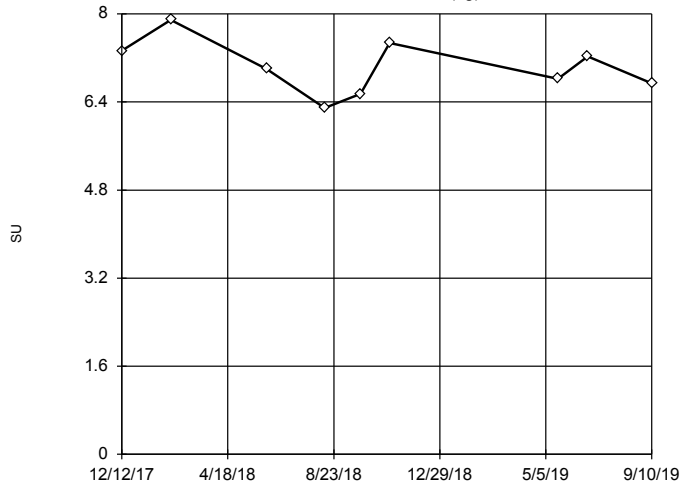
MW-1702I (bg)



n = 9
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 10.11, low cutoff = 5.109, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

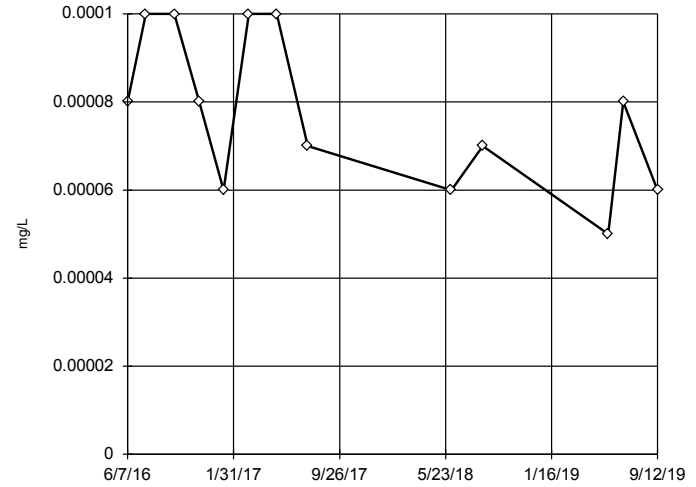
Tukey's Outlier Screening MW-1702S (bg)



n = 9
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 10.22, low cutoff = 4.81, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

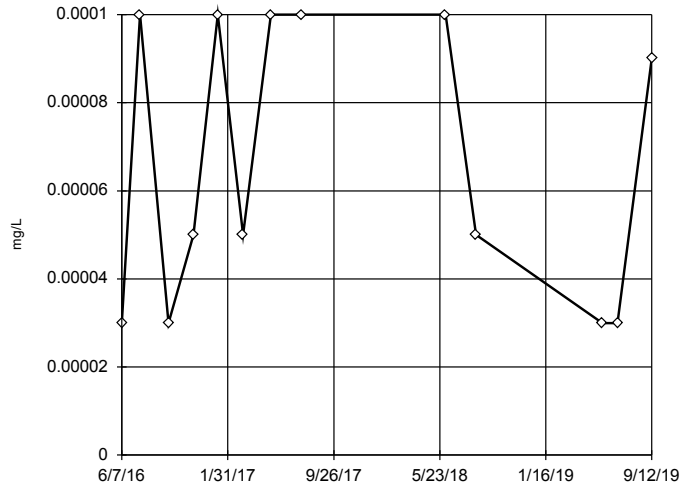
Tukey's Outlier Screening MW-1002



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.000463, low cutoff = 0.0001296, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

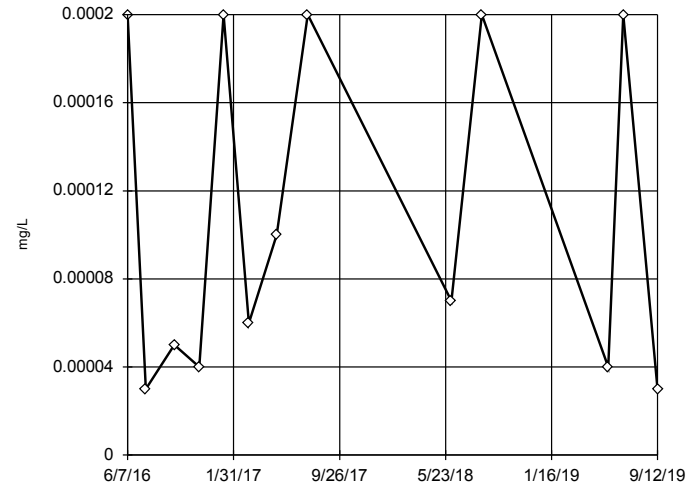
Tukey's Outlier Screening MW-1602D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.003704, low cutoff = 8.1e-7, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1602I

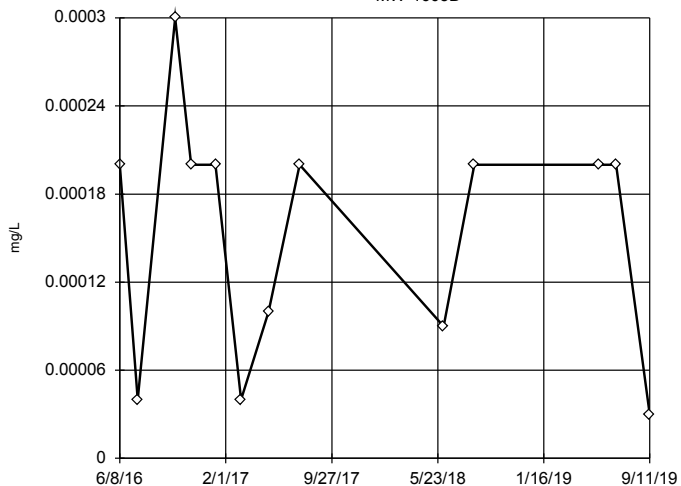


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.025, low cutoff = 3.2e-7, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603D

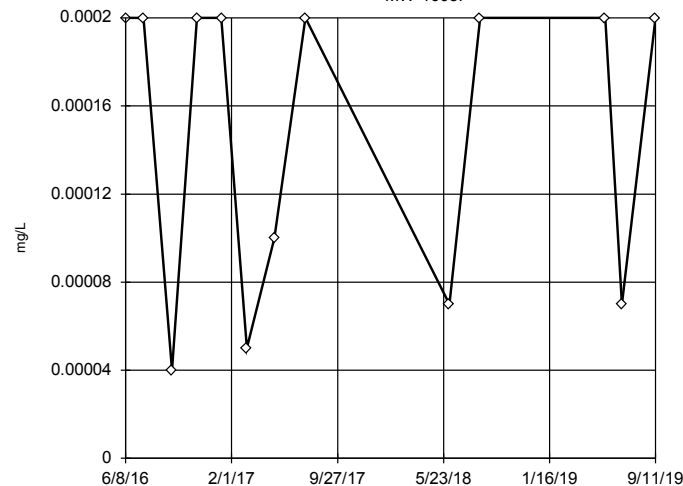


n = 13
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 0.000605, low cutoff = -0.00034, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1603I

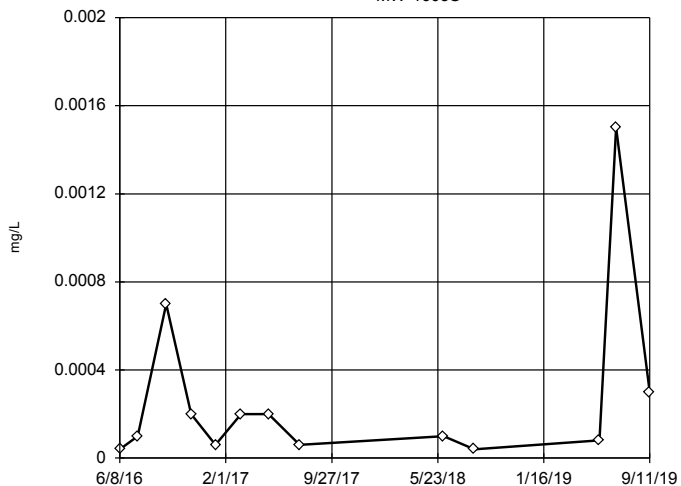


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.004665, low cutoff = 0.00003001, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

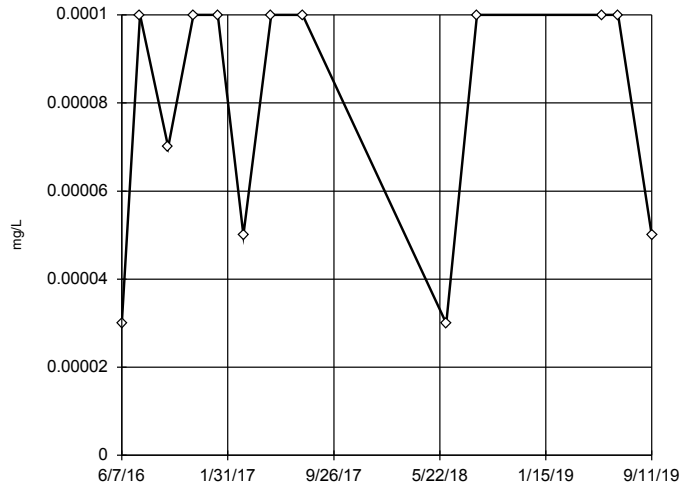
Tukey's Outlier Screening

MW-1603S



Tukey's Outlier Screening

MW-1604I

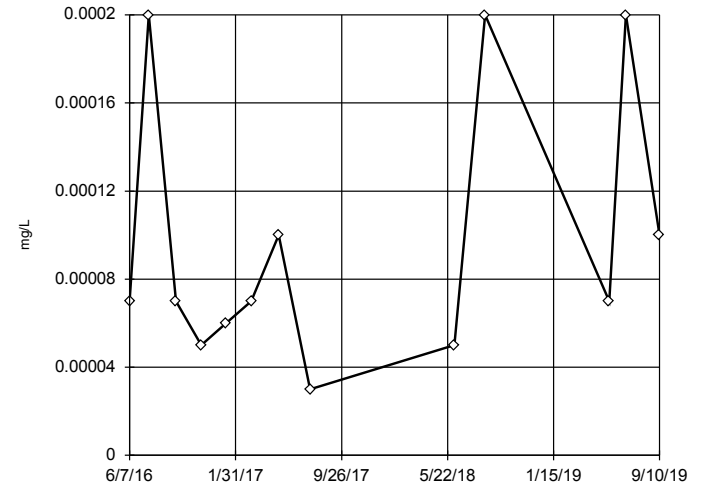


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.0003529, low cutoff = -0.00002944, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1604S

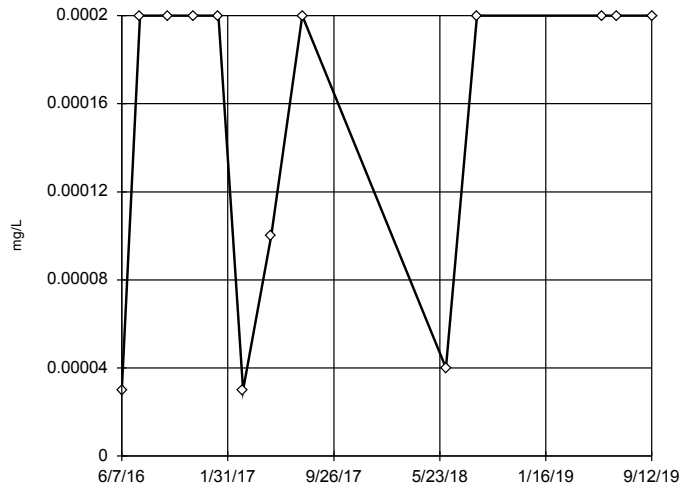


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.002434, low cutoff = 0.00003182, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605D

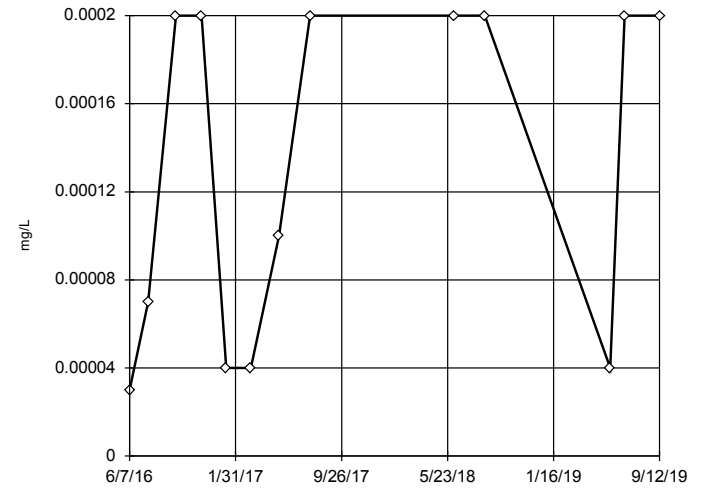


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.001029, low cutoff = -0.0000956, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605I

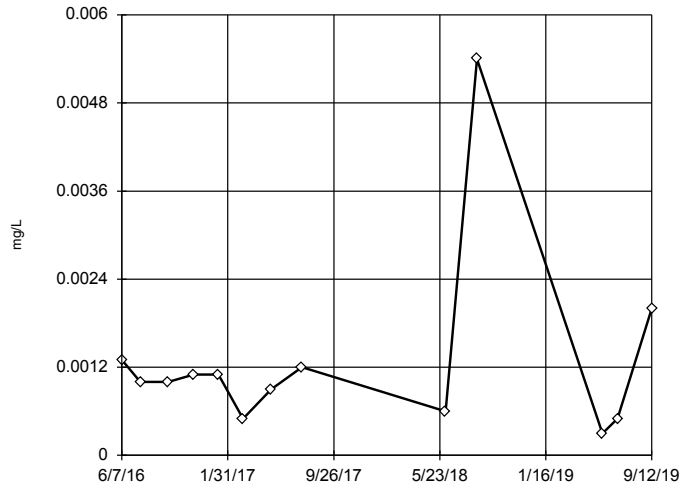


n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.025, low cutoff = 3.2e-7, based on IQR multiplier of 3.

Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1605S

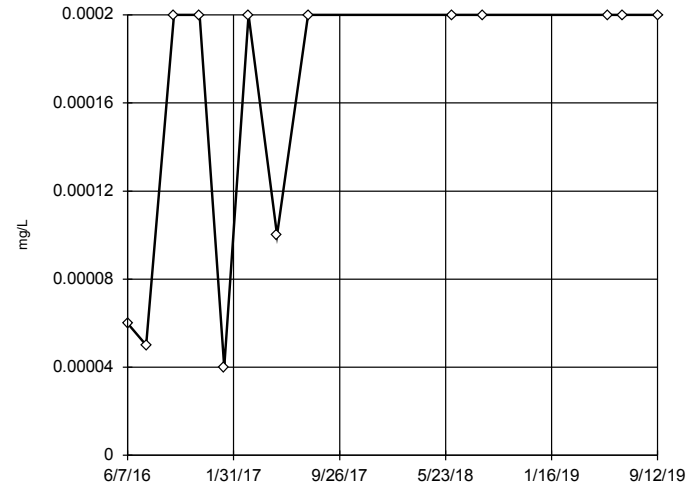


n = 13
No outliers found.
Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.01481,
low cutoff = 0.00004619,
based on IQR multiplier of 3.

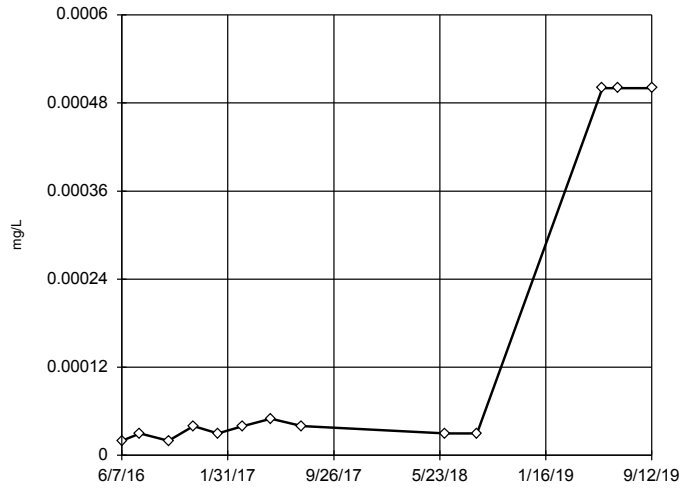
Constituent: Selenium, total Analysis Run 12/5/2019 10:11 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening

MW-1606D



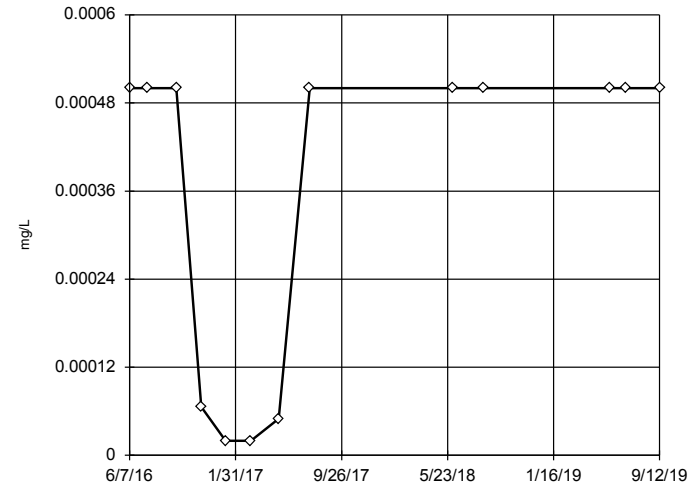
Tukey's Outlier Screening
MW-1002



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.02315, low cutoff = 2.0e-7, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

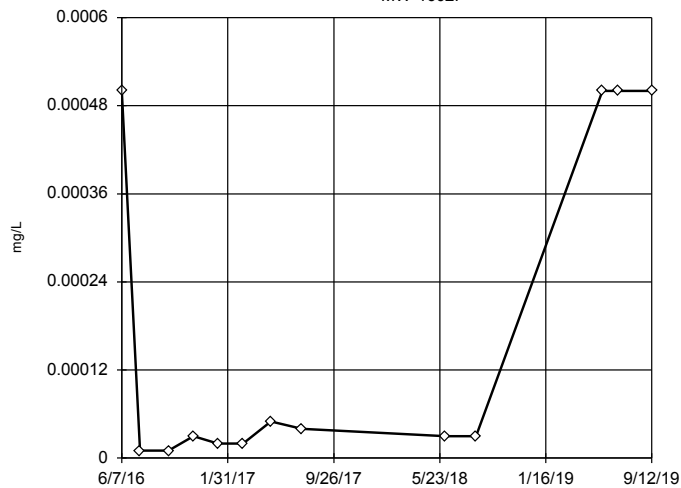
Tukey's Outlier Screening
MW-1602D



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 0.3297, low cutoff = 8.7e-8, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

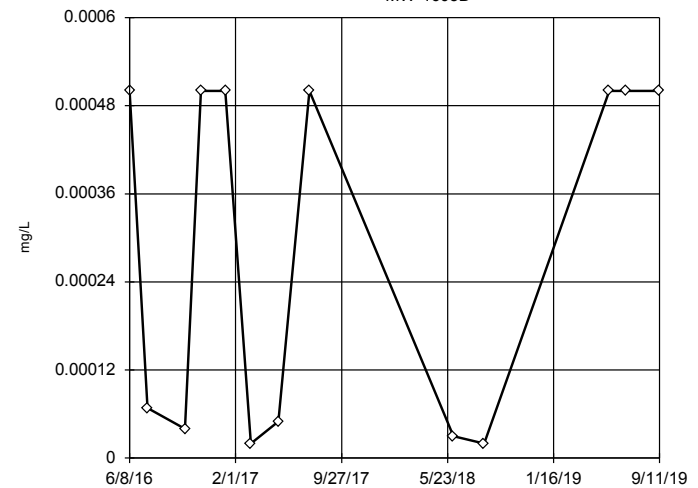
Tukey's Outlier Screening
MW-1602I



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 7.813, low cutoff = 1.3e-9, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

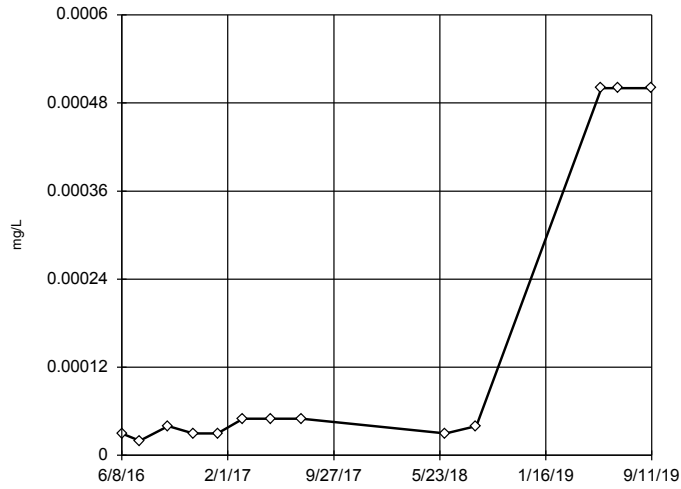
Tukey's Outlier Screening
MW-1603D



n = 13
No outliers found. Tukey's method selected by user.
Data were natural log transformed to achieve best W statistic (graph shown in original units).
High cutoff = 1.504, low cutoff = 1.2e-8, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
Rockport BAP Client: Geosyntec Data: Rockport_BAP

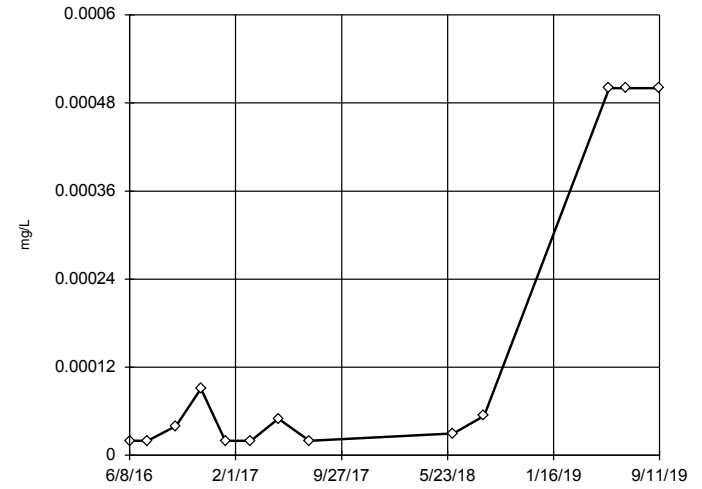
Tukey's Outlier Screening MW-1603I



n = 13
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.02315, low cutoff = 2.0e-7, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

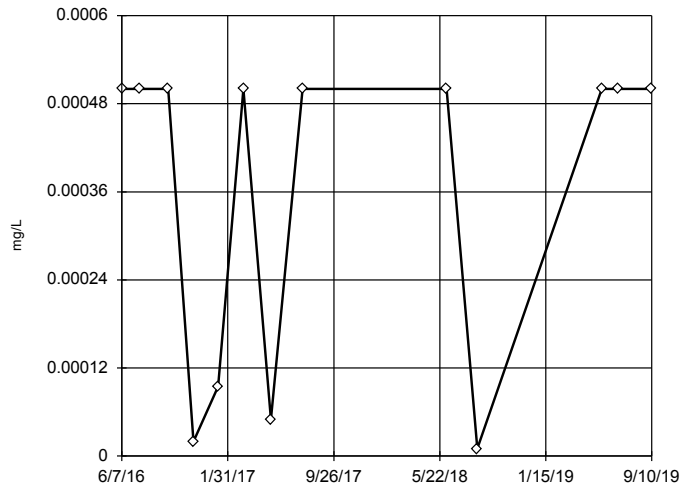
Tukey's Outlier Screening MW-1603S



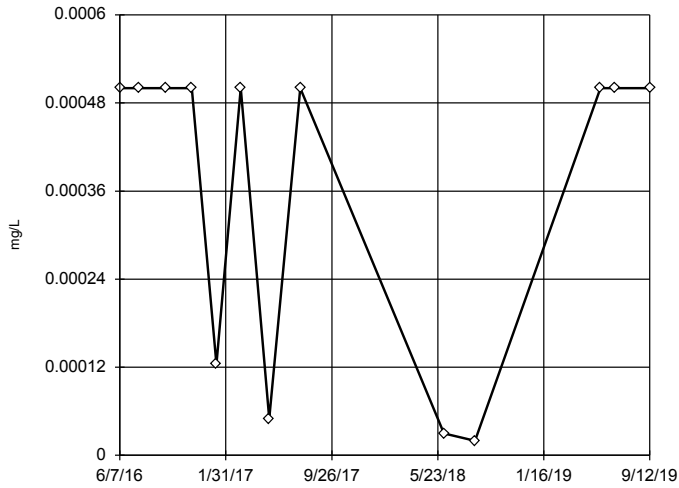
n = 13
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.2588, low cutoff = 1.6e-8, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1604D



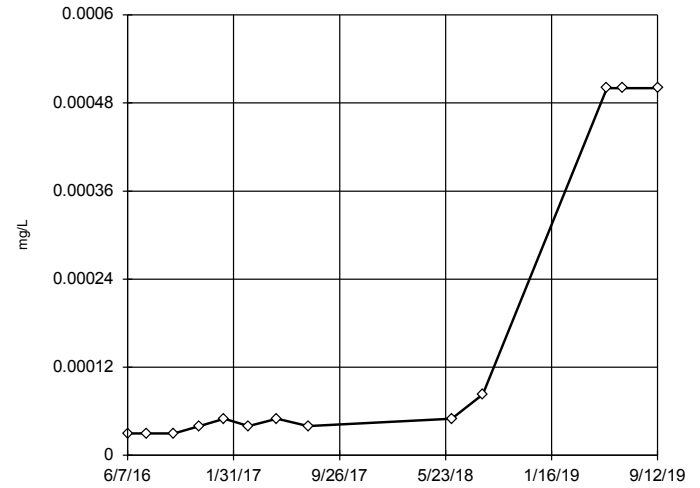
Tukey's Outlier Screening MW-1606D



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.128, low cutoff = 3.1e-7, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

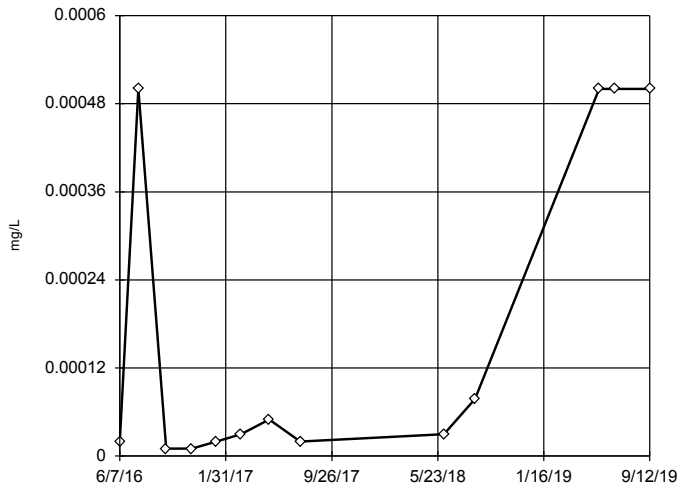
Tukey's Outlier Screening MW-1606I



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.04143, low cutoff = 1.7e-7, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Tukey's Outlier Screening MW-1606S



n = 13
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.813, low cutoff = 1.3e-9, based on IQR multiplier of 3.

Constituent: Thallium, total Analysis Run 12/5/2019 10:12 AM
 Rockport BAP Client: Geosyntec Data: Rockport_BAP

Mann-Whitney - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:07 PM

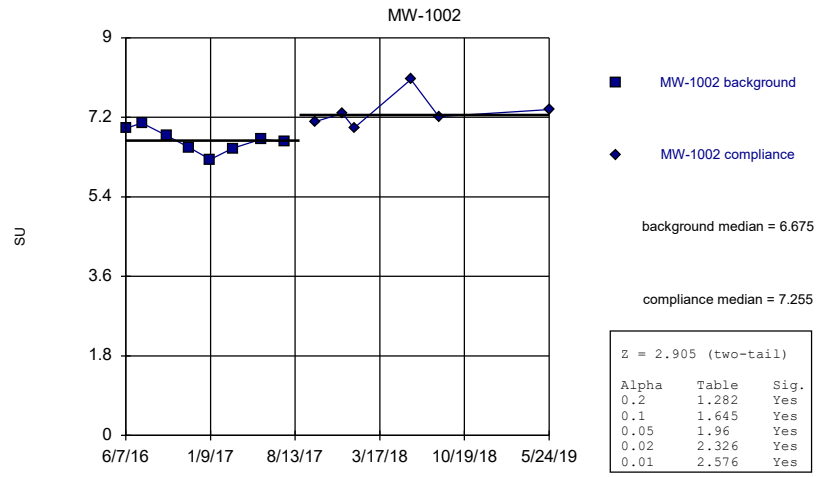
| <u>Constituent</u> | <u>Well</u> | <u>Calc.</u> | <u>0.01</u> | <u>Sig.</u> | <u>Method</u> |
|-----------------------|----------------|--------------|-------------|-------------|---------------|
| pH, field (SU) | MW-1002 | 2.905 | Yes | Yes | Mann-W |

Mann-Whitney - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:07 PM

| <u>Constituent</u> | <u>Well</u> | <u>Calc.</u> | <u>0.01</u> | <u>Sig.</u> | <u>Method</u> |
|-----------------------|----------------|--------------|-------------|-------------|---------------|
| Calcium, total (mg/L) | MW-1600D (bg) | -0.5104 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1600I (bg) | -1.616 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1600S (bg) | -1.786 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1601D (bg) | -0.5944 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1601I (bg) | -0.1021 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1601S (bg) | -1.953 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1002 | -1.274 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1602D | -1.104 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1602I | -1.613 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1603D | -1.104 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1603I | -2.123 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1603S | -1.613 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1604D | -1.274 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1604I | -1.104 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1604S | -1.104 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1605D | -1.783 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1605I | -2.123 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1605S | -1.783 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1606D | 1.106 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1606I | 1.444 | No | No | Mann-W |
| Calcium, total (mg/L) | MW-1606S | 0.2548 | No | No | Mann-W |
| pH, field (SU) | MW-1600D (bg) | 0.6615 | No | No | Mann-W |
| pH, field (SU) | MW-1600I (bg) | 0.9594 | No | No | Mann-W |
| pH, field (SU) | MW-1600S (bg) | 1.949 | No | No | Mann-W |
| pH, field (SU) | MW-1601D (bg) | -0.5123 | No | No | Mann-W |
| pH, field (SU) | MW-1601I (bg) | 0.4725 | No | No | Mann-W |
| pH, field (SU) | MW-1601S (bg) | 1.174 | No | No | Mann-W |
| pH, field (SU) | MW-1002 | 2.905 | Yes | Yes | Mann-W |
| pH, field (SU) | MW-1602D | 1.073 | No | No | Mann-W |
| pH, field (SU) | MW-1602I | 2.461 | No | No | Mann-W |
| pH, field (SU) | MW-1603D | -0.2936 | No | No | Mann-W |
| pH, field (SU) | MW-1603I | 0.5021 | No | No | Mann-W |
| pH, field (SU) | MW-1603S | 0.6429 | No | No | Mann-W |
| pH, field (SU) | MW-1604D | 1.466 | No | No | Mann-W |
| pH, field (SU) | MW-1604I | 1.1 | No | No | Mann-W |
| pH, field (SU) | MW-1604S | 2.391 | No | No | Mann-W |
| pH, field (SU) | MW-1605D | 0.1898 | No | No | Mann-W |
| pH, field (SU) | MW-1605I | 1.749 | No | No | Mann-W |
| pH, field (SU) | MW-1605S | 1.043 | No | No | Mann-W |
| pH, field (SU) | MW-1606D | -0.4872 | No | No | Mann-W |
| pH, field (SU) | MW-1606I | 0.4872 | No | No | Mann-W |
| pH, field (SU) | MW-1606S | 0.1939 | No | No | Mann-W |

Mann-Whitney (Wilcoxon Rank Sum)



Constituent: pH, field Analysis Run 12/8/2019 2:05 PM View: Mann Whitney

Rockport BAP Client: Geosyntec Data: Rockport_BAP

Intrawell Prediction Limit Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:14 PM

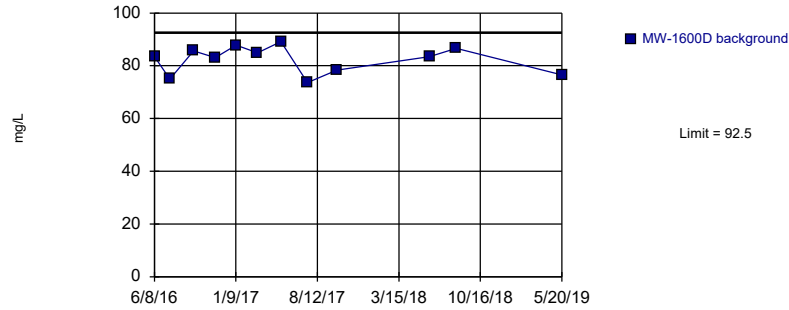
| Constituent | Well | Upper Lim. | Lower Lim. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------|----------|------------|------------|------|------|---------|-----------|------|---------|-----------|-----------|-----------------------------|
| Calcium, total (mg/L) | MW-1600D | 92.5 | n/a | n/a | 12 | 82.28 | 5.189 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1600I | 81.85 | n/a | n/a | 12 | 75.5 | 3.222 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1600S | 71.88 | n/a | n/a | 12 | 63.8 | 4.101 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1601D | 94.27 | n/a | n/a | 12 | 86.33 | 4.036 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1601I | 96.14 | n/a | n/a | 11 | 86.49 | 4.709 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1601S | 85.85 | n/a | n/a | 12 | 75.86 | 5.071 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1002 | 78.34 | n/a | n/a | 12 | 47.2 | 15.81 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1602D | 79.68 | n/a | n/a | 12 | 70.9 | 4.456 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1602I | 87.81 | n/a | n/a | 12 | 76.54 | 5.721 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1603D | 96.67 | n/a | n/a | 12 | 82.65 | 7.117 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1603I | 103.5 | n/a | n/a | 12 | 88 | 7.858 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1603S | 96.21 | n/a | n/a | 12 | 63.29 | 16.71 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1604D | 76.07 | n/a | n/a | 12 | 69.08 | 3.547 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1604I | 84.43 | n/a | n/a | 12 | 74.03 | 5.283 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1604S | 108 | n/a | n/a | 12 | 83.43 | 12.49 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1605D | 95.28 | n/a | n/a | 12 | 85.63 | 4.902 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1605I | 104.3 | n/a | n/a | 12 | 87.37 | 8.608 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1605S | 88.64 | n/a | n/a | 12 | 5401 | 1247 | 0 | None | x^2 | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1606D | 81.4 | n/a | n/a | 12 | 73.52 | 4 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1606I | 86.27 | n/a | n/a | 12 | 68.28 | 9.136 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1606S | 68.13 | n/a | n/a | 12 | 3.921 | 0.1523 | 0 | None | ln(x) | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1701S | 68.34 | n/a | n/a | 7 | 59.84 | 3.133 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1702D | 90.49 | n/a | n/a | 7 | 79.36 | 4.104 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1702I | 86.84 | n/a | n/a | 7 | 77.14 | 3.573 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1702S | 44.88 | n/a | n/a | 7 | 33.83 | 4.072 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1701D | 82.24 | n/a | n/a | 7 | 71.8 | 3.848 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| Calcium, total (mg/L) | MW-1701I | 73.44 | n/a | n/a | 7 | 64.77 | 3.196 | 0 | None | No | 0.0005016 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1600D | 7.626 | 6.557 | n/a | 13 | 7.092 | 0.2774 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1600I | 7.599 | 6.791 | n/a | 10 | 7.195 | 0.1899 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1600S | 7.258 | 6.272 | n/a | 12 | 6.765 | 0.2503 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1601D | 7.667 | 6.47 | n/a | 13 | 7.068 | 0.3106 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1601I | 7.661 | 6.57 | n/a | 11 | 7.115 | 0.266 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1601S | 7.65 | 6.621 | n/a | 13 | 7.135 | 0.2669 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1002 | 7.818 | 6.101 | n/a | 14 | 6.959 | 0.4557 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1602D | 8.148 | 6.728 | n/a | 13 | 7.438 | 0.3685 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1602I | 7.769 | 6.838 | n/a | 14 | 7.304 | 0.2471 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1603D | 7.393 | 6.827 | n/a | 13 | 7.11 | 0.1468 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1603I | 7.792 | 6.797 | n/a | 13 | 7.295 | 0.2583 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1603S | 7.614 | 6.369 | n/a | 13 | 6.992 | 0.3233 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1604D | 7.439 | 6.977 | n/a | 13 | 7.208 | 0.1199 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1604I | 7.784 | 7.093 | n/a | 14 | 7.439 | 0.1832 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1604S | 7.874 | 7.116 | n/a | 14 | 7.495 | 0.2014 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1605D | 7.391 | 6.851 | n/a | 11 | 7.121 | 0.1319 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1605I | 7.555 | 6.909 | n/a | 14 | 7.232 | 0.1713 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1605S | 7.67 | 7.07 | n/a | 14 | n/a | n/a | 0 | n/a | n/a | 0.003199 | NP Intra (normality) 1 of 3 |
| pH, field (SU) | MW-1606D | 8.37 | 6.88 | n/a | 12 | n/a | n/a | 0 | n/a | n/a | 0.004347 | NP Intra (normality) 1 of 3 |
| pH, field (SU) | MW-1606I | 8.342 | 6.403 | n/a | 12 | 7.373 | 0.4922 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1606S | 7.796 | 6.333 | n/a | 14 | 7.064 | 0.3882 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1701S | 8.302 | 6.249 | n/a | 7 | 7.276 | 0.3784 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1702D | 8.801 | 5.873 | n/a | 7 | 7.337 | 0.5395 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |

Intrawell Prediction Limit Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:14 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Lower Lim.</u> | <u>Sig.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|--------------------|-------------|-------------------|-------------------|-------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|--------------------|
| pH, field (SU) | MW-1702I | 8.435 | 5.925 | n/a | 7 | 7.18 | 0.4626 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1702S | 8.554 | 5.546 | n/a | 7 | 7.05 | 0.5543 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1701D | 7.968 | 6.823 | n/a | 7 | 7.396 | 0.2109 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |
| pH, field (SU) | MW-1701I | 8.157 | 6.818 | n/a | 7 | 7.487 | 0.2468 | 0 | None | No | 0.0002508 | Param Intra 1 of 3 |

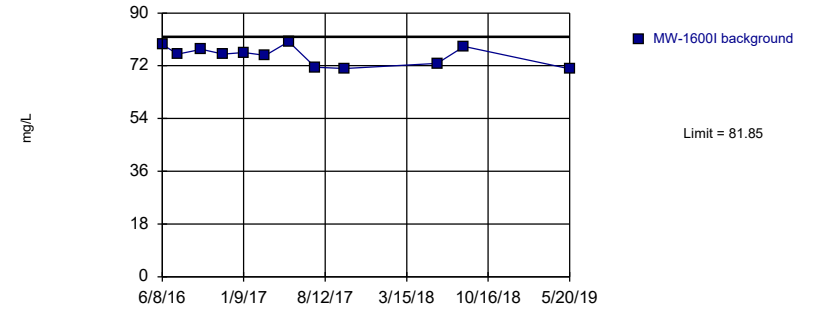
Prediction Limit
Intrawell Parametric, MW-1600D (bg)



Background Data Summary: Mean=82.28, Std. Dev.=5.189, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9157, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

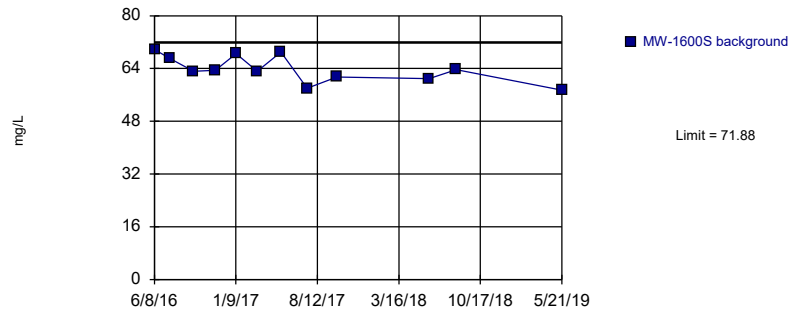
Prediction Limit
Intrawell Parametric, MW-1600I (bg)



Background Data Summary: Mean=75.5, Std. Dev.=3.222, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

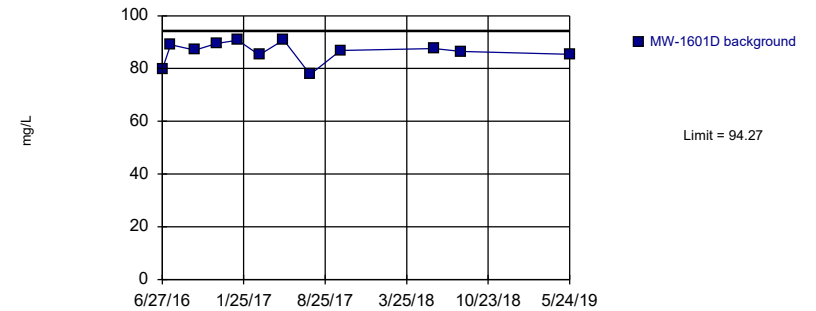
Prediction Limit
Intrawell Parametric, MW-1600S (bg)



Background Data Summary: Mean=63.8, Std. Dev.=4.101, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9383, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

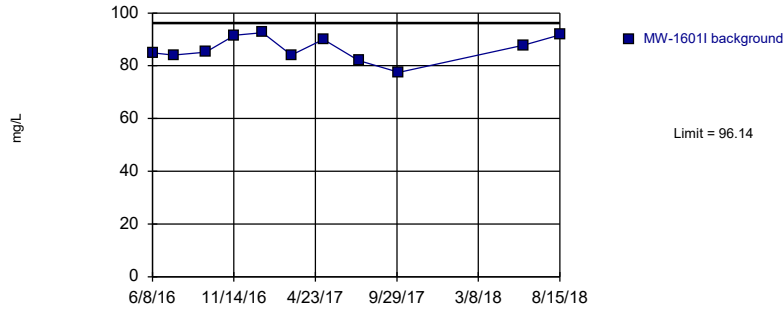
Prediction Limit
Intrawell Parametric, MW-1601D (bg)



Background Data Summary: Mean=86.33, Std. Dev.=4.036, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8746, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

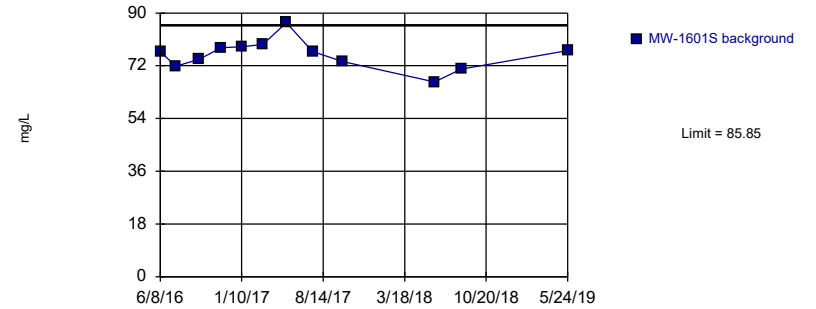
Prediction Limit Intrawell Parametric, MW-1601I (bg)



Background Data Summary: Mean=86.49, Std. Dev.=4.709, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.792. Kappa = 2.05 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

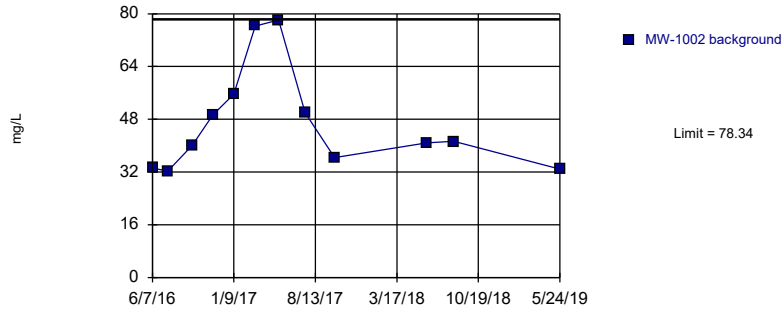
Prediction Limit Intrawell Parametric, MW-1601S (bg)



Background Data Summary: Mean=75.86, Std. Dev.=5.071, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9566, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

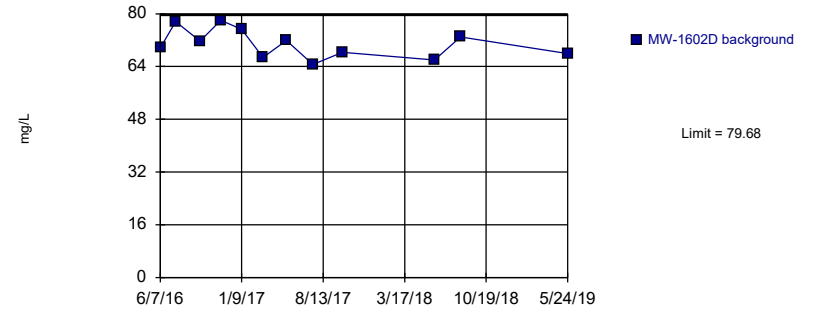
Prediction Limit Intrawell Parametric, MW-1002



Background Data Summary: Mean=47.2, Std. Dev.=15.81, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8305, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

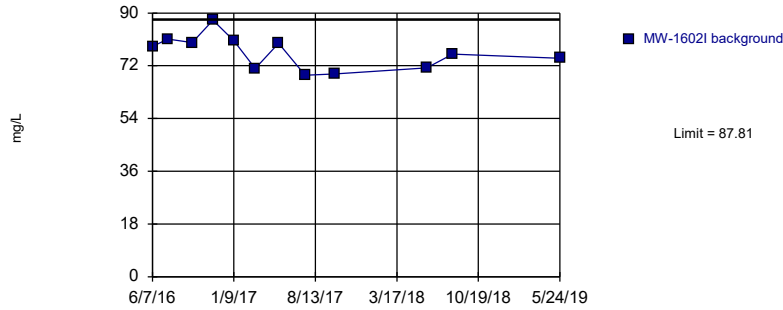
Prediction Limit Intrawell Parametric, MW-1602D



Background Data Summary: Mean=70.9, Std. Dev.=4.456, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.948, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

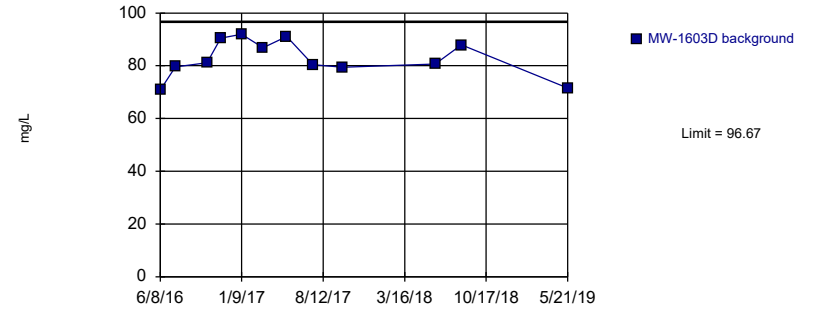
Prediction Limit
Intrawell Parametric, MW-1602I



Background Data Summary: Mean=76.54, Std. Dev.=5.721, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9396, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

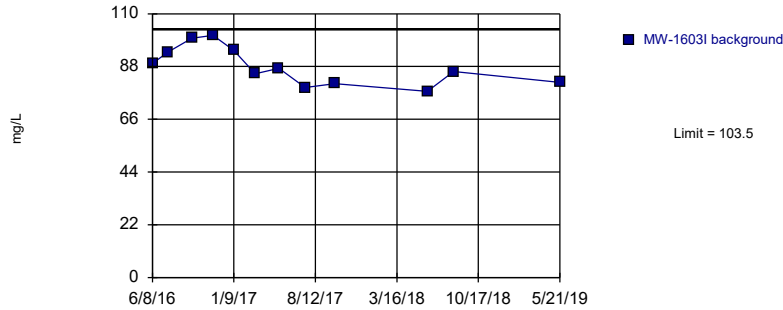
Prediction Limit
Intrawell Parametric, MW-1603D



Background Data Summary: Mean=82.65, Std. Dev.=7.117, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.914, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

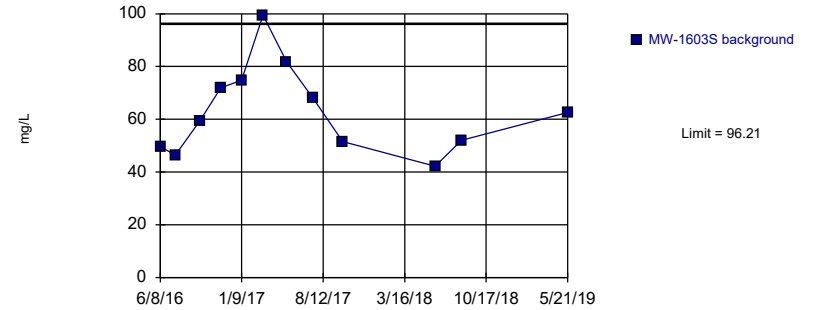
Prediction Limit
Intrawell Parametric, MW-1603I



Background Data Summary: Mean=88, Std. Dev.=7.858, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9366, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

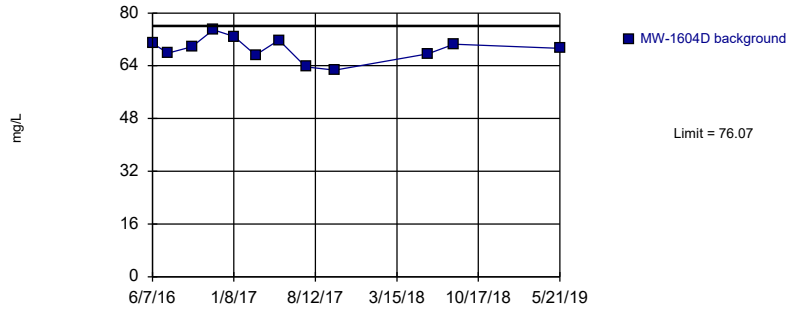
Prediction Limit
Intrawell Parametric, MW-1603S



Background Data Summary: Mean=63.29, Std. Dev.=16.71, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

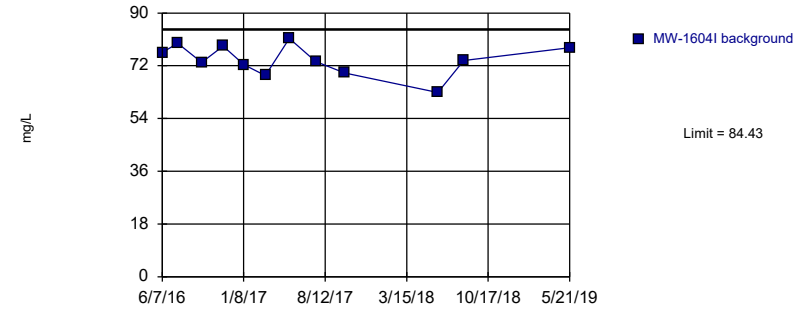
Prediction Limit
Intrawell Parametric, MW-1604D



Background Data Summary: Mean=69.08, Std. Dev.=3.547, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9704, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

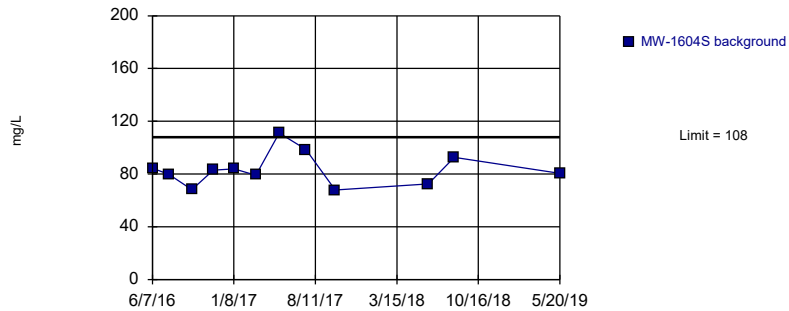
Prediction Limit
Intrawell Parametric, MW-1604I



Background Data Summary: Mean=74.03, Std. Dev.=5.283, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9563, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

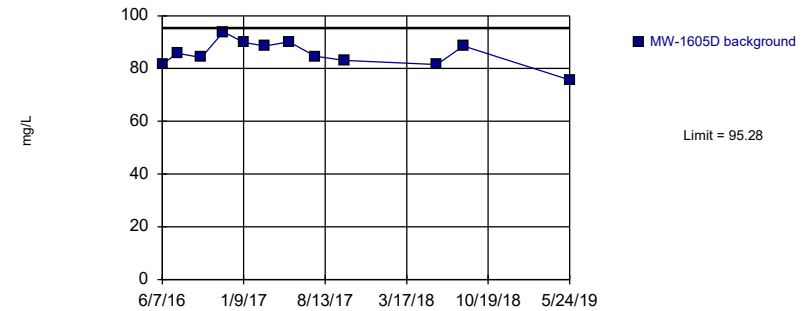
Prediction Limit
Intrawell Parametric, MW-1604S



Background Data Summary: Mean=83.43, Std. Dev.=12.49, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9242, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

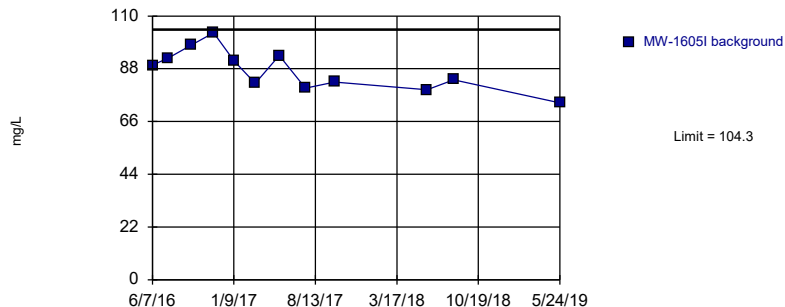
Prediction Limit
Intrawell Parametric, MW-1605D



Background Data Summary: Mean=85.63, Std. Dev.=4.902, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

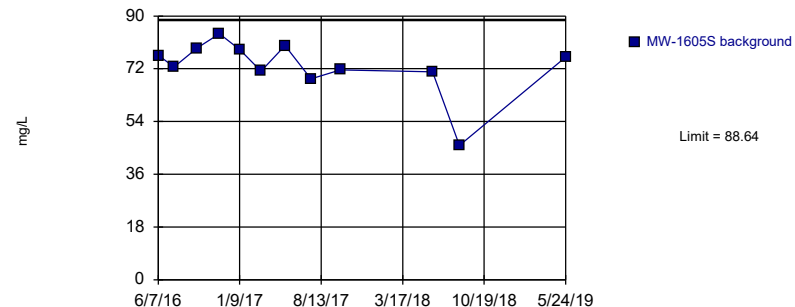
Prediction Limit Intrawell Parametric, MW-1605I



Background Data Summary: Mean=87.37, Std. Dev.=8.608, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9669, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

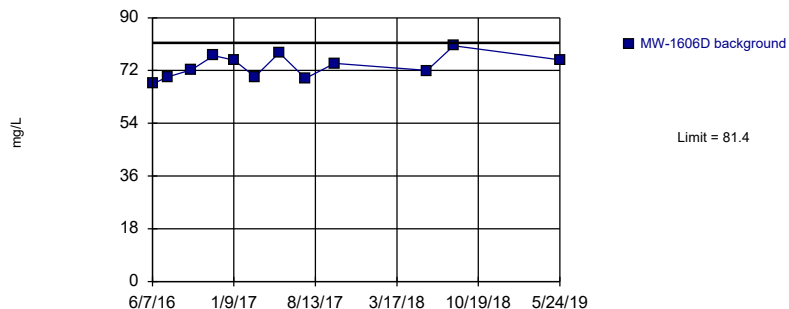
Prediction Limit Intrawell Parametric, MW-1605S



Background Data Summary (based on square transformation): Mean=5401, Std. Dev.=1247, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.851, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

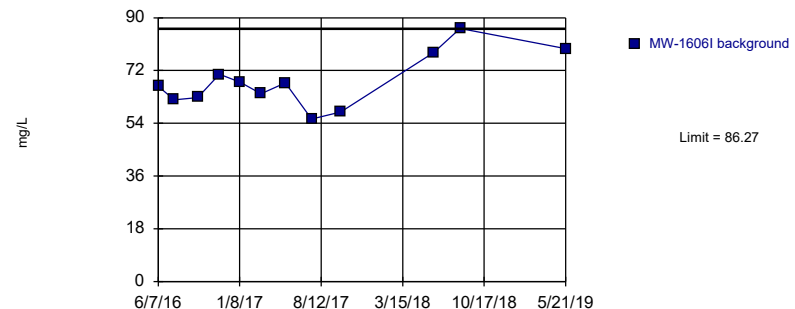
Prediction Limit Intrawell Parametric, MW-1606D



Background Data Summary: Mean=73.52, Std. Dev.=4, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.966, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

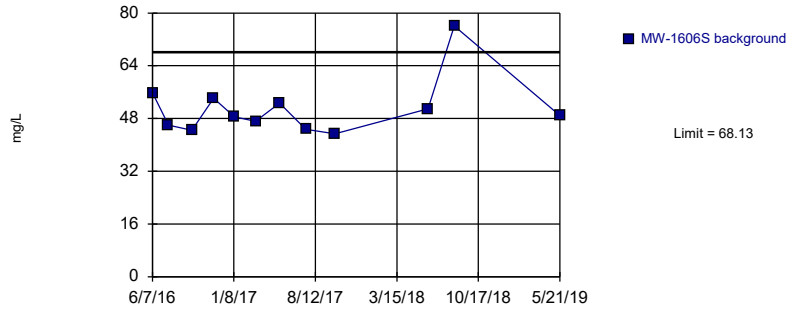
Prediction Limit Intrawell Parametric, MW-1606I



Background Data Summary: Mean=68.28, Std. Dev.=9.136, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9498, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

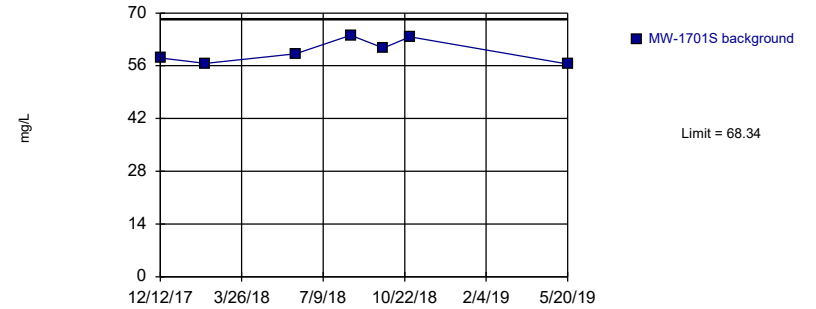
Prediction Limit
Intrawell Parametric, MW-1606S



Background Data Summary (based on natural log transformation): Mean=3.921, Std. Dev.=0.1523, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8188, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

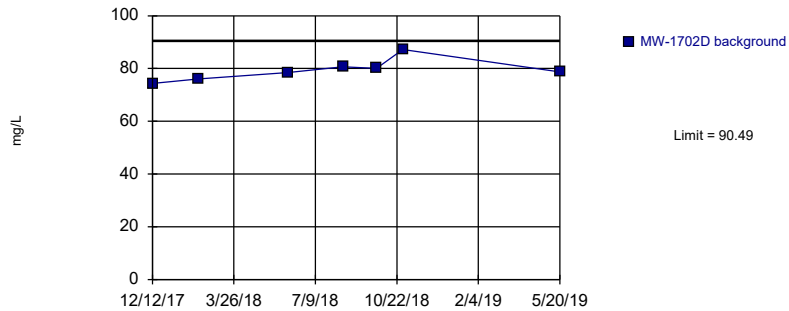
Prediction Limit
Intrawell Parametric, MW-1701S (bg)



Background Data Summary: Mean=59.84, Std. Dev.=3.133, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8936, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

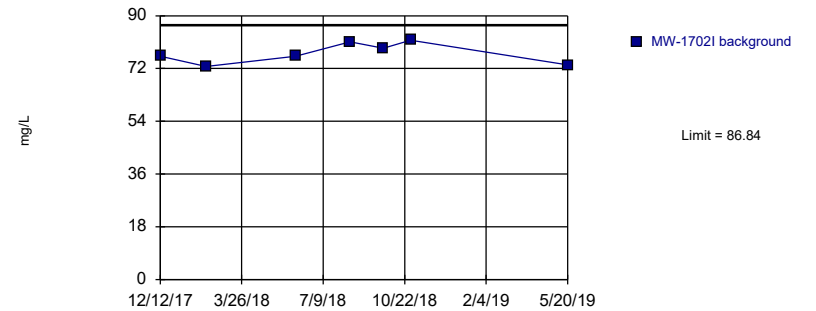
Prediction Limit
Intrawell Parametric, MW-1702D (bg)



Background Data Summary: Mean=79.36, Std. Dev.=4.104, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9203, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

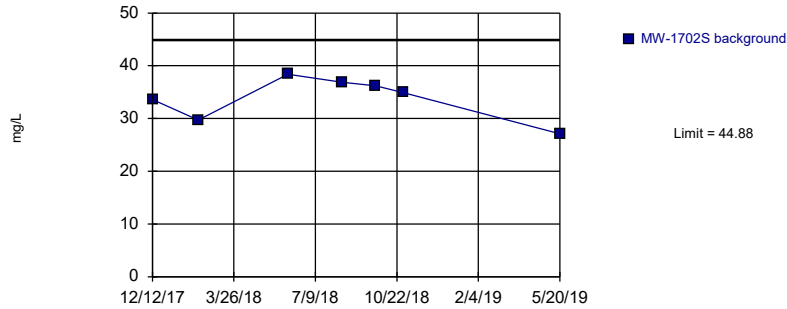
Prediction Limit
Intrawell Parametric, MW-1702I (bg)



Background Data Summary: Mean=77.14, Std. Dev.=3.573, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9176, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

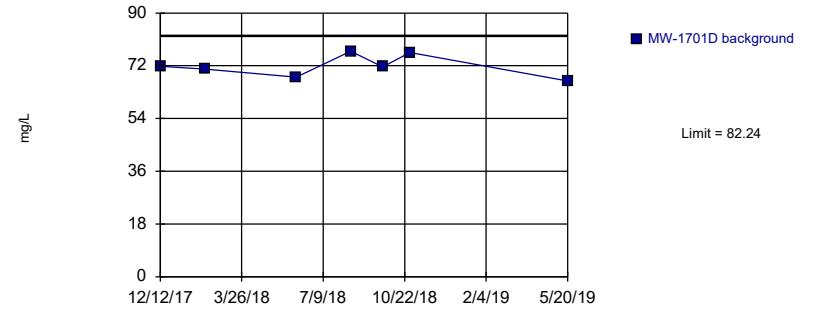
Prediction Limit
Intrawell Parametric, MW-1702S (bg)



Background Data Summary: Mean=33.83, Std. Dev.=4.072, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9245, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

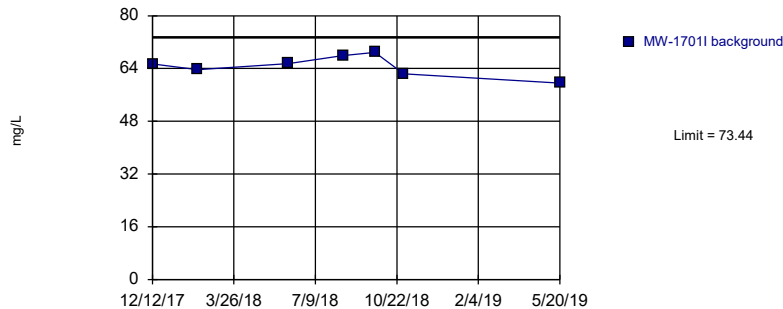
Prediction Limit
Intrawell Parametric, MW-1701D (bg)



Background Data Summary: Mean=71.8, Std. Dev.=3.848, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9204, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

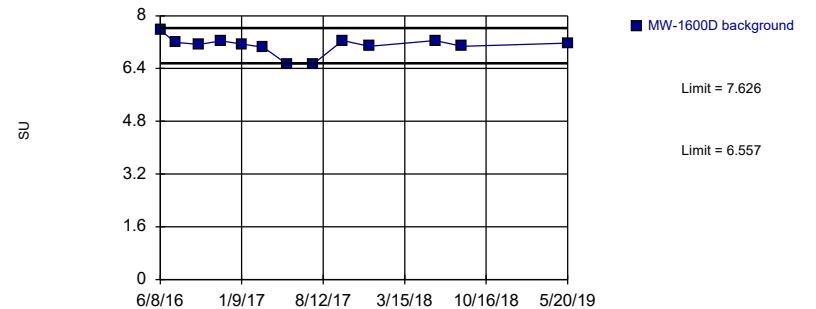
Prediction Limit
Intrawell Parametric, MW-1701I (bg)



Background Data Summary: Mean=64.77, Std. Dev.=3.196, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

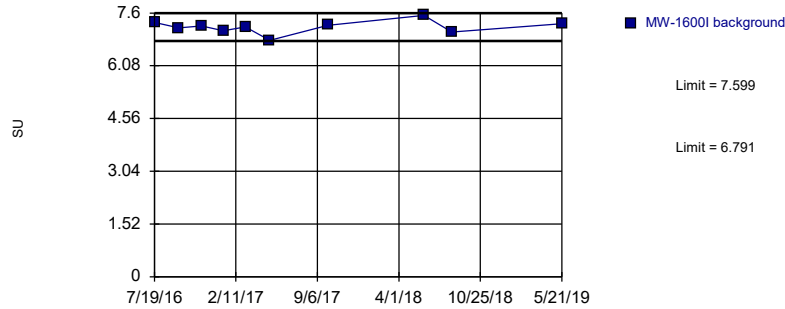
Prediction Limit
Intrawell Parametric, MW-1600D (bg)



Background Data Summary: Mean=7.092, Std. Dev.=0.2774, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8343, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

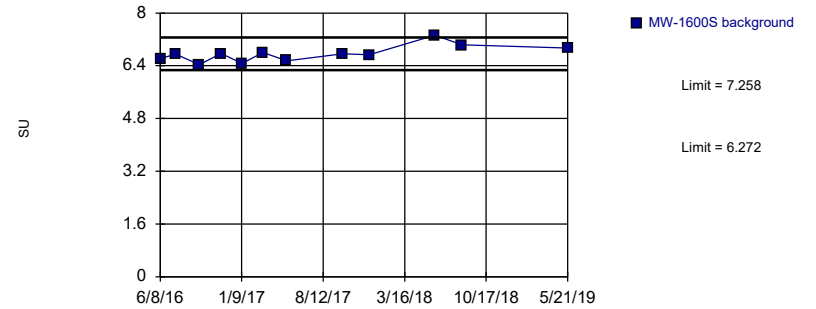
Prediction Limit
Intrawell Parametric, MW-1600I (bg)



Background Data Summary: Mean=7.195, Std. Dev.=0.1899, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.781. Kappa = 2.13 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

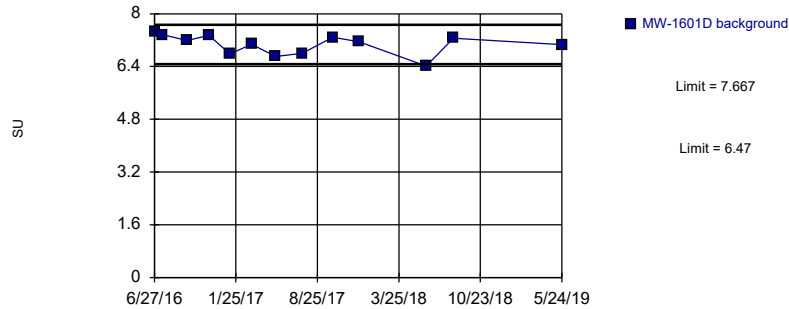
Prediction Limit
Intrawell Parametric, MW-1600S (bg)



Background Data Summary: Mean=6.765, Std. Dev.=0.2503, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9355, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

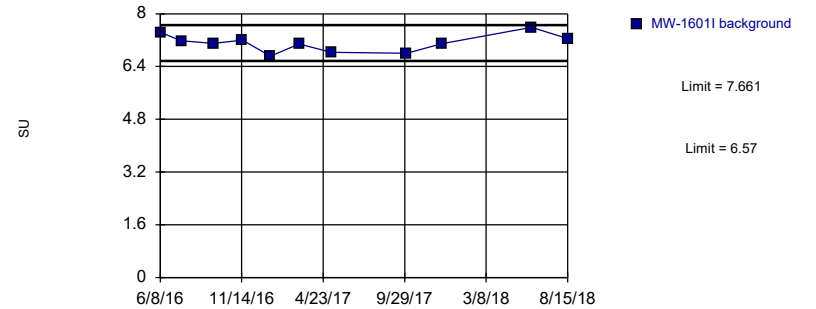
Prediction Limit
Intrawell Parametric, MW-1601D (bg)



Background Data Summary: Mean=7.068, Std. Dev.=0.3106, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9293, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

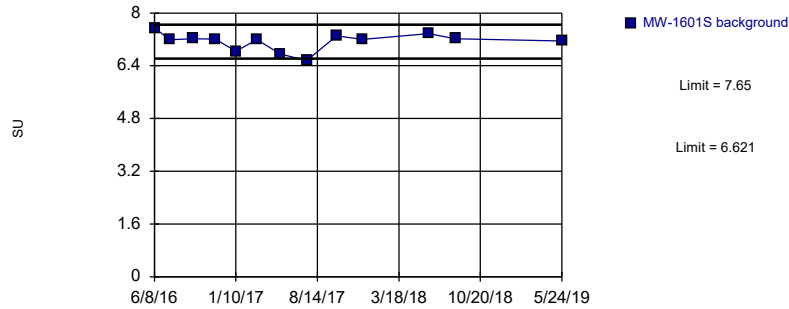
Prediction Limit
Intrawell Parametric, MW-1601I (bg)



Background Data Summary: Mean=7.115, Std. Dev.=0.266, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9583, critical = 0.792. Kappa = 2.05 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

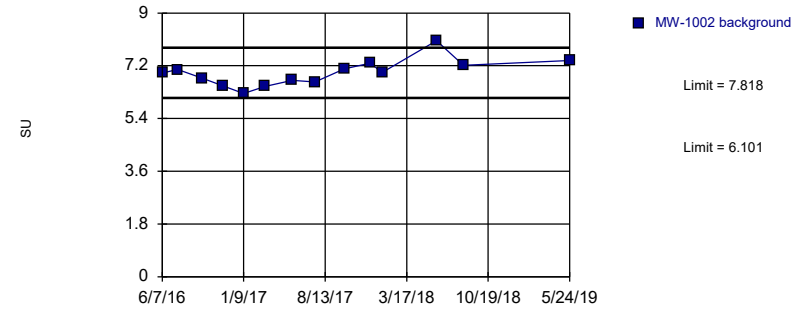
Prediction Limit
Intrawell Parametric, MW-1601S (bg)



Background Data Summary: Mean=7.135, Std. Dev.=0.2669, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8784, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

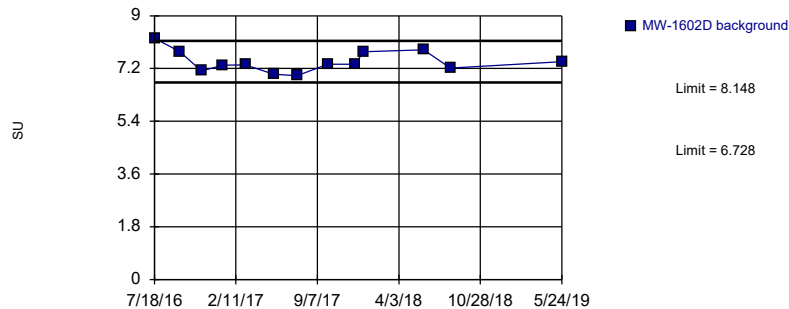
Prediction Limit
Intrawell Parametric, MW-1002



Background Data Summary: Mean=6.959, Std. Dev.=0.4557, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.825. Kappa = 1.884 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

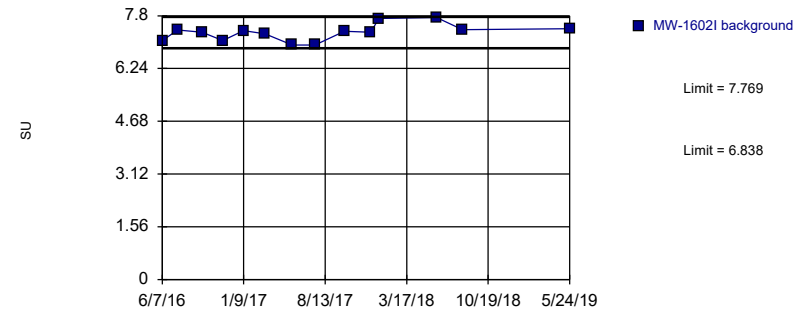
Prediction Limit
Intrawell Parametric, MW-1602D



Background Data Summary: Mean=7.438, Std. Dev.=0.3685, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9273, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

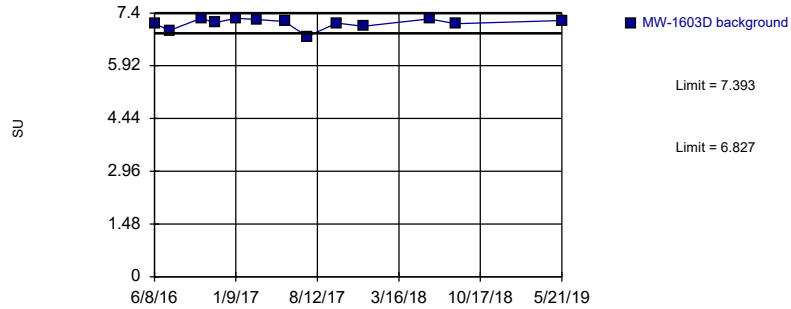
Prediction Limit
Intrawell Parametric, MW-1602I



Background Data Summary: Mean=7.304, Std. Dev.=0.2471, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9201, critical = 0.825. Kappa = 1.884 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

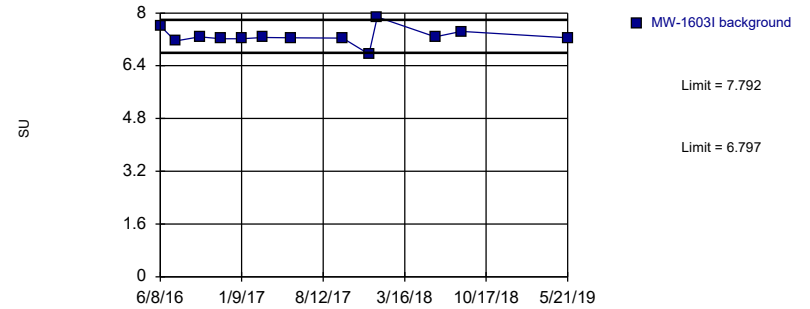
Prediction Limit
Intrawell Parametric, MW-1603D



Background Data Summary: Mean=7.11, Std. Dev.=0.1468, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8438, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

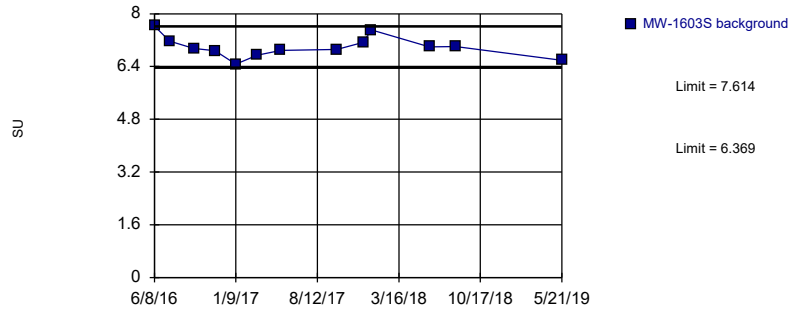
Prediction Limit
Intrawell Parametric, MW-1603I



Background Data Summary: Mean=7.295, Std. Dev.=0.2583, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8539, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

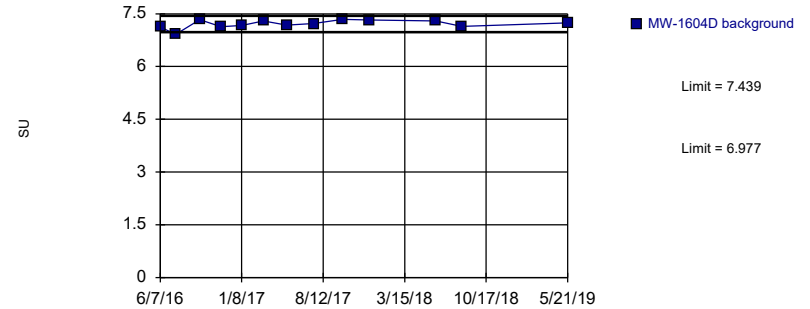
Prediction Limit
Intrawell Parametric, MW-1603S



Background Data Summary: Mean=6.992, Std. Dev.=0.3233, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.95, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

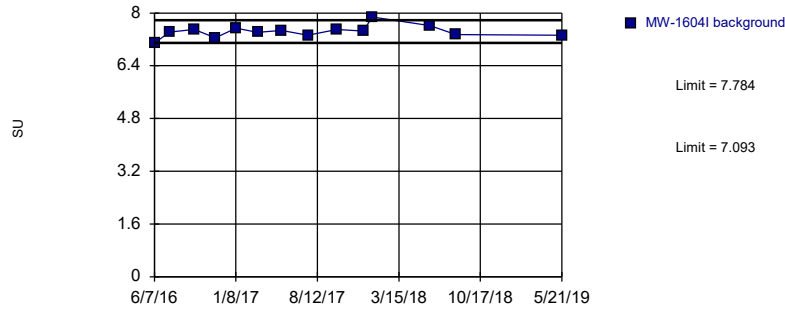
Prediction Limit
Intrawell Parametric, MW-1604D



Background Data Summary: Mean=7.208, Std. Dev.=0.1199, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8863, critical = 0.814. Kappa = 1.927 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

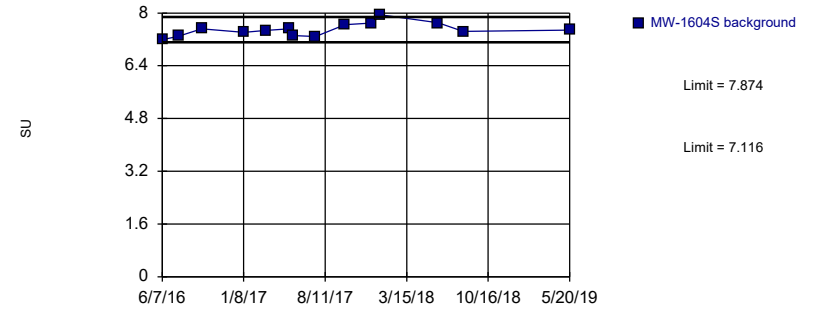
Prediction Limit
Intrawell Parametric, MW-1604I



Background Data Summary: Mean=7.439, Std. Dev.=0.1832, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9492, critical = 0.825. Kappa = 1.884 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

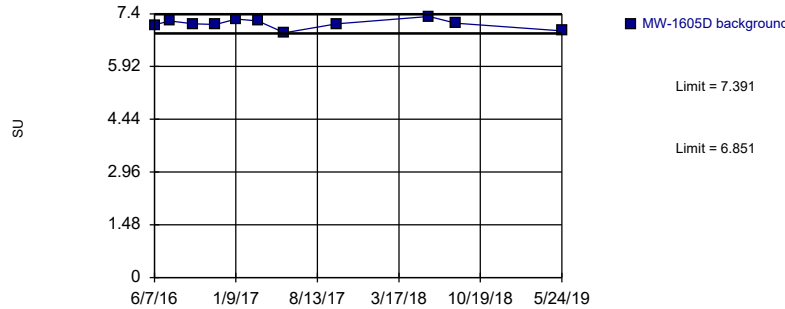
Prediction Limit
Intrawell Parametric, MW-1604S



Background Data Summary: Mean=7.495, Std. Dev.=0.2014, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9569, critical = 0.825. Kappa = 1.884 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

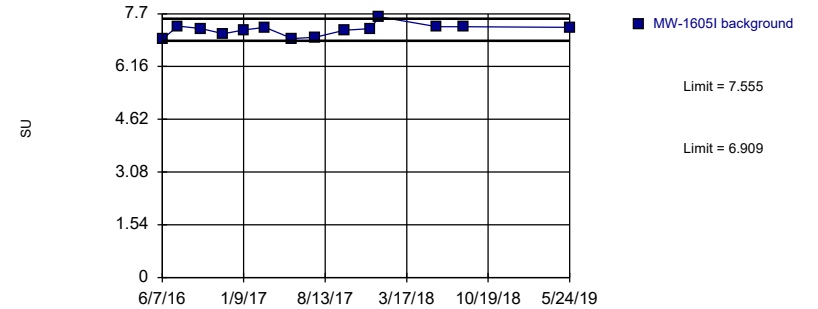
Prediction Limit
Intrawell Parametric, MW-1605D



Background Data Summary: Mean=7.121, Std. Dev.=0.1319, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.792. Kappa = 2.05 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

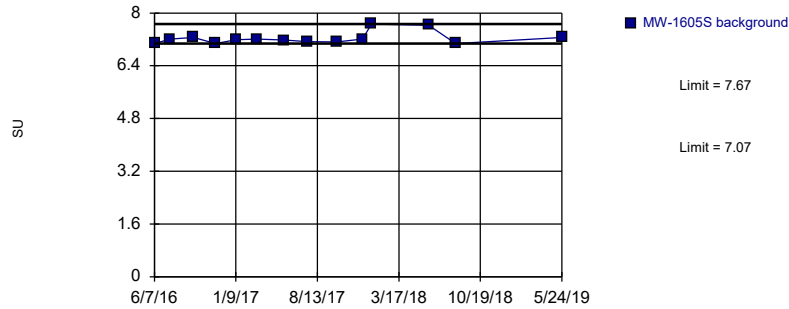
Prediction Limit
Intrawell Parametric, MW-1605I



Background Data Summary: Mean=7.232, Std. Dev.=0.1713, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9062, critical = 0.825. Kappa = 1.884 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

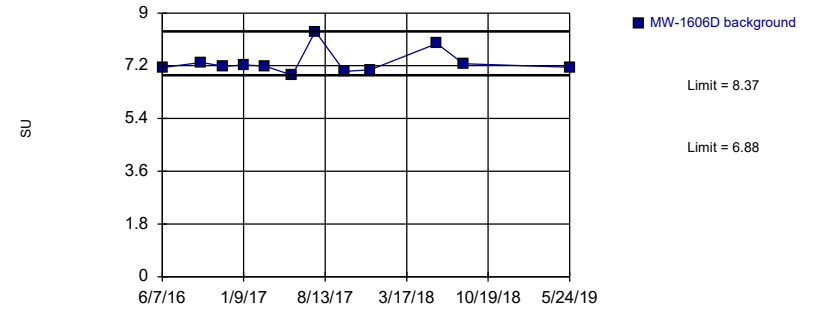
Prediction Limit
Intrawell Non-parametric, MW-1605S



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. Limits are highest and lowest of 14 background values. Well-constituent pair annual alpha = 0.006393. Individual comparison alpha = 0.003199 (1 of 3). Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

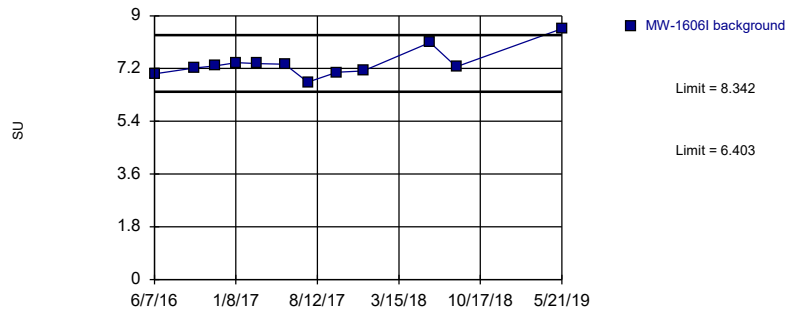
Prediction Limit
Intrawell Non-parametric, MW-1606D



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. Limits are highest and lowest of 12 background values. Well-constituent pair annual alpha = 0.008684. Individual comparison alpha = 0.004347 (1 of 3). Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

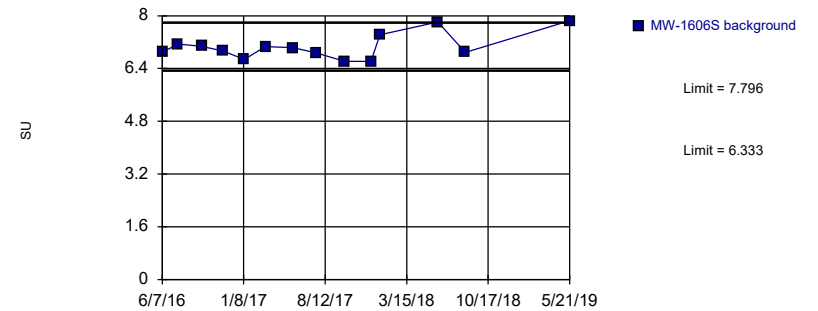
Prediction Limit
Intrawell Parametric, MW-1606I



Background Data Summary: Mean=7.373, Std. Dev.=0.4922, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8317, critical = 0.805. Kappa = 1.97 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

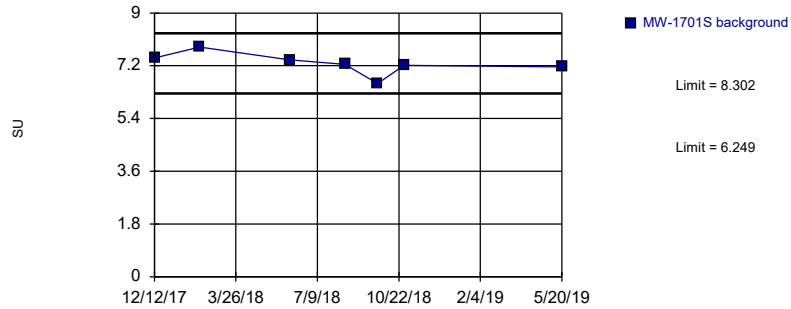
Prediction Limit
Intrawell Parametric, MW-1606S



Background Data Summary: Mean=7.064, Std. Dev.=0.3882, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8707, critical = 0.825. Kappa = 1.884 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

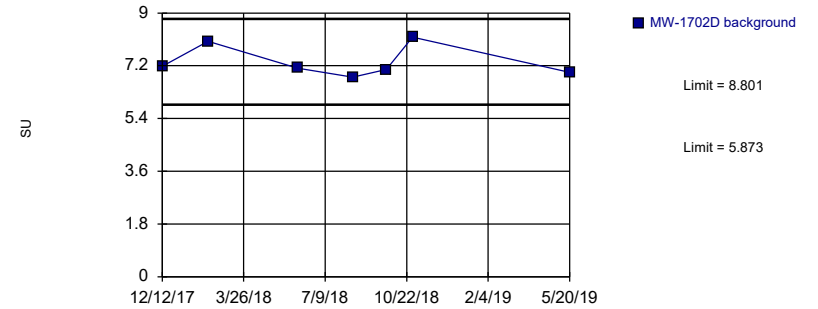
Prediction Limit
Intrawell Parametric, MW-1701S (bg)



Background Data Summary: Mean=7.276, Std. Dev.=0.3784, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9394, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

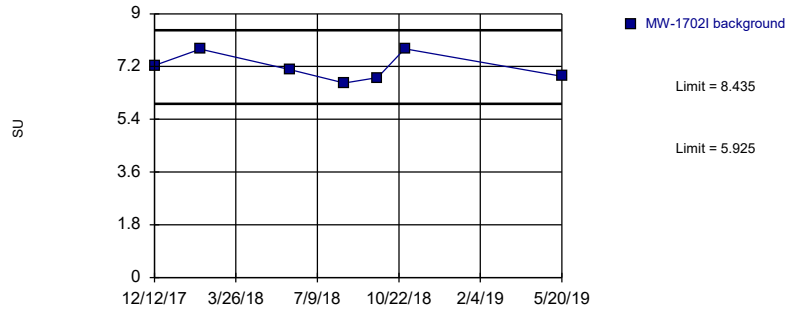
Prediction Limit
Intrawell Parametric, MW-1702D (bg)



Background Data Summary: Mean=7.337, Std. Dev.=0.5395, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8117, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

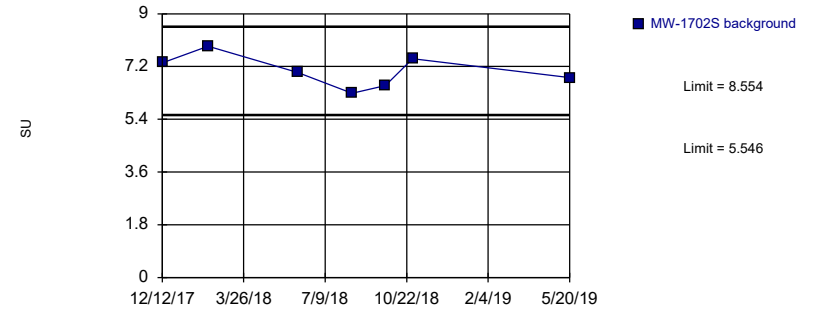
Prediction Limit
Intrawell Parametric, MW-1702I (bg)



Background Data Summary: Mean=7.18, Std. Dev.=0.4626, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8899, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

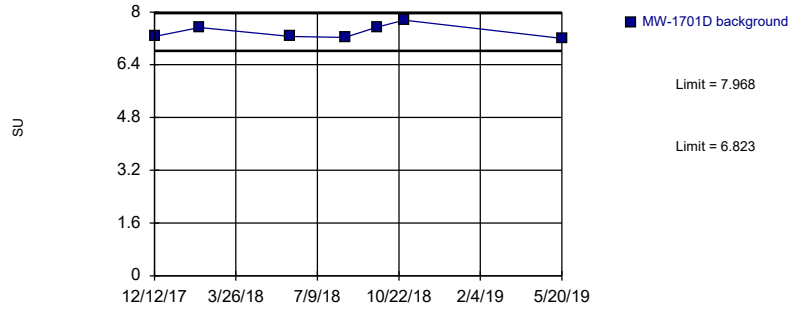
Prediction Limit
Intrawell Parametric, MW-1702S (bg)



Background Data Summary: Mean=7.05, Std. Dev.=0.5543, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9851, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

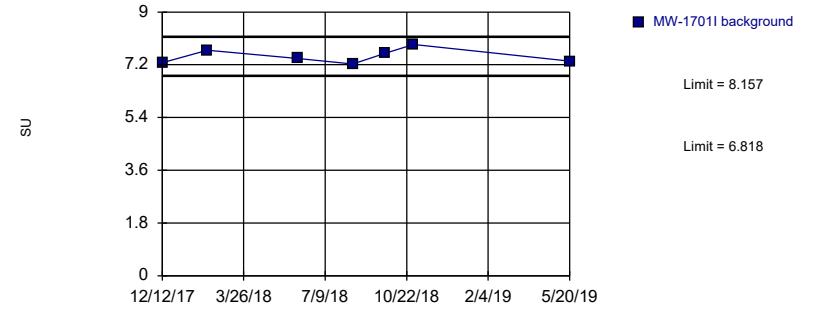
Prediction Limit
Intrawell Parametric, MW-1701D (bg)



Background Data Summary: Mean=7.396, Std. Dev.=0.2109, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8437, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Prediction Limit
Intrawell Parametric, MW-1701I (bg)



Background Data Summary: Mean=7.487, Std. Dev.=0.2468, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.73. Kappa = 2.713 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 12/8/2019 2:13 PM View: PL's - Intrawell
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Trend Test Summary Table - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:21 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|------------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Chloride, total (mg/L) | MW-1601S (bg) | -3.479 | -81 | -53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1600S (bg) | 0.04815 | 60 | 53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |

Trend Test Summary Table - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:21 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------------|----------------------|----------------|------------|------------|------------|-----------|----------|------------|------------|-------------|-----------|
| Boron, total (mg/L) | MW-1600D (bg) | 0.01234 | 45 | 48 | No | 14 | 21.43 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1600I (bg) | 0.005378 | 24 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1600S (bg) | 0.003029 | 19 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1601D (bg) | 0.001917 | 18 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1601I (bg) | 0.006247 | 18 | 43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1601S (bg) | -0.01137 | -22 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1701S (bg) | -0.004583 | -5 | -25 | No | 9 | 22.22 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1702D (bg) | -0.04169 | -15 | -25 | No | 9 | 11.11 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1702I (bg) | -0.01224 | -7 | -25 | No | 9 | 11.11 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1702S (bg) | -0.006736 | -13 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1701D (bg) | -0.02206 | -15 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Boron, total (mg/L) | MW-1701I (bg) | -0.02515 | -17 | -25 | No | 9 | 11.11 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1600D (bg) | 0 | -6 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1600I (bg) | 0 | -1 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1600S (bg) | 0.3188 | 7 | 53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1601D (bg) | -0.3255 | -14 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1601I (bg) | -0.4142 | -34 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1601S (bg) | -3.479 | -81 | -53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1701S (bg) | 0.6 | 25 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1702D (bg) | -0.03635 | -1 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1702I (bg) | 0.9242 | 12 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1702S (bg) | 0.8979 | 25 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1701D (bg) | -0.5816 | -4 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Chloride, total (mg/L) | MW-1701I (bg) | -0.4719 | -6 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1600D (bg) | 0.008538 | 35 | 53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1600I (bg) | 0.009159 | 32 | 53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1600S (bg) | 0.04815 | 60 | 53 | Yes | 15 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1601D (bg) | -0.003617 | -18 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1601I (bg) | 0 | 12 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1601S (bg) | 0.01035 | 12 | 53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1701S (bg) | 0.01231 | 15 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1702D (bg) | 0 | -5 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1702I (bg) | 0.003483 | 4 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1702S (bg) | 0.06438 | 14 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1701D (bg) | 0 | -1 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Fluoride, total (mg/L) | MW-1701I (bg) | 0.01553 | 7 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1600D (bg) | 0 | -1 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1600I (bg) | 0.6307 | 15 | 53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1600S (bg) | -6.933 | -45 | -53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1601D (bg) | 0.3336 | 3 | 53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1601I (bg) | 0 | -2 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1601S (bg) | 3.528 | 31 | 53 | No | 15 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1701S (bg) | -1.206 | -22 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1702D (bg) | -1.624 | -15 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1702I (bg) | -0.5416 | -3 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1702S (bg) | -1.95 | -16 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1701D (bg) | -2.792 | -12 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate, total (mg/L) | MW-1701I (bg) | -2.726 | -17 | -25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600D (bg) | -1.577 | -3 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600I (bg) | -2.687 | -12 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1600S (bg) | -14.9 | -43 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1601D (bg) | -5.587 | -20 | -48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1601I (bg) | -0.4403 | -3 | -43 | No | 13 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1601S (bg) | 1.536 | 14 | 48 | No | 14 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1701S (bg) | 9.988 | 4 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |

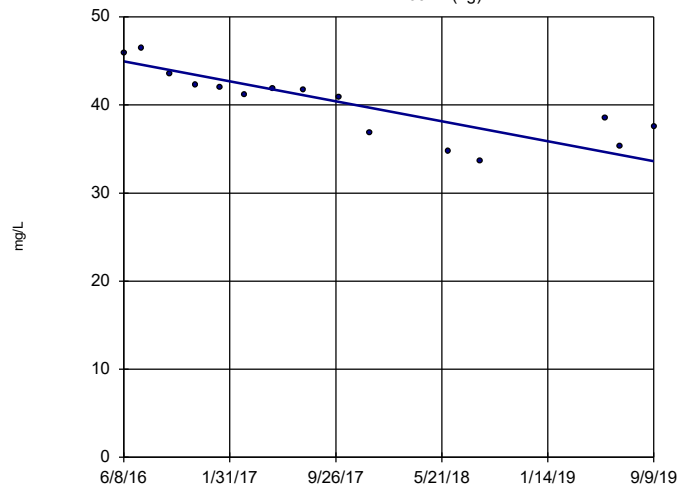
Trend Test Summary Table - All Results

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:21 PM

| <u>Constituent</u> | <u>Well</u> | <u>Slope</u> | <u>Calc.</u> | <u>Critical</u> | <u>Sig.</u> | <u>N</u> | <u>%NDs</u> | <u>Normality</u> | <u>Xform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------------|---------------|--------------|--------------|-----------------|-------------|----------|-------------|------------------|--------------|--------------|---------------|
| Total Dissolved Solids [TDS] (mg/L) | MW-1702D (bg) | 13.53 | 16 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1702I (bg) | 0.9288 | 3 | 21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1702S (bg) | 6.936 | 10 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1701D (bg) | -3.012 | -2 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids [TDS] (mg/L) | MW-1701I (bg) | 0.87 | 3 | 25 | No | 9 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

MW-1601S (bg)

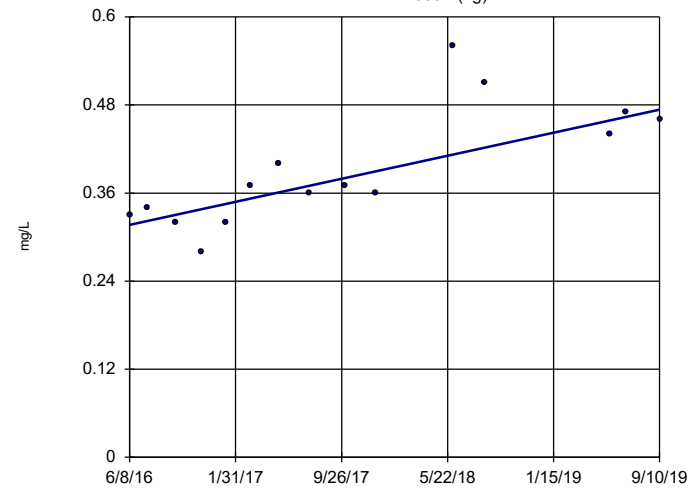


n = 15
Slope = -3.479
units per year.
Mann-Kendall
statistic = -81
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride, total Analysis Run 12/8/2019 2:19 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Sen's Slope Estimator

MW-1600S (bg)



n = 15
Slope = 0.04815
units per year.
Mann-Kendall
statistic = 60
critical = 53
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride, total Analysis Run 12/8/2019 2:19 PM View: Trend Tests
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Interwell Prediction Limit Summary

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:17 PM

| Constituent | Well | Upper Lim. | Sig. | Bg N | Bg Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------------------|------|------------|------|------|---------|-----------|-------|---------|-----------|-----------|-----------------------|
| Boron, total (mg/L) | n/a | 0.1351 | n/a | 113 | 0.2261 | 0.06881 | 2.655 | None | sqrt(x) | 0.0005016 | Param 1 of 2 |
| Chloride, total (mg/L) | n/a | 46.4 | n/a | 119 | n/a | n/a | 0 | n/a | n/a | 0.0001371 | NP (normality) 1 of 2 |
| Fluoride, total (mg/L) | n/a | 0.7 | n/a | 119 | n/a | n/a | 0 | n/a | n/a | 0.0001371 | NP (normality) 1 of 2 |
| Sulfate, total (mg/L) | n/a | 76 | n/a | 119 | n/a | n/a | 0 | n/a | n/a | 0.0001371 | NP (normality) 1 of 2 |
| Total Dissolved Solids [TDS] (mg/L) | n/a | 464.8 | n/a | 111 | 6.1e7 | 1.9e7 | 0 | None | x^3 | 0.0005016 | Param 1 of 2 |

Tolerance Limit Summary Table

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:25 PM

| <u>Constituent</u> | <u>Well</u> | <u>Upper Lim.</u> | <u>Bg N</u> | <u>Bg Mean</u> | <u>Std. Dev.</u> | <u>%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-----------------------------------|-------------|-------------------|-------------|----------------|------------------|-------------|----------------|------------------|--------------|---------------------|
| Antimony, total (mg/L) | n/a | 0.0005 | 130 | n/a | n/a | 22.31 | n/a | n/a | 0.001271 | NP Inter(normality) |
| Arsenic, total (mg/L) | n/a | 0.0558 | 131 | n/a | n/a | 0 | n/a | n/a | 0.001207 | NP Inter(normality) |
| Barium, total (mg/L) | n/a | 0.997 | 131 | n/a | n/a | 0 | n/a | n/a | 0.001207 | NP Inter(normality) |
| Beryllium, total (mg/L) | n/a | 0.0005 | 131 | n/a | n/a | 72.52 | n/a | n/a | 0.001207 | NP Inter(normality) |
| Cadmium, total (mg/L) | n/a | 0.00028 | 131 | n/a | n/a | 35.11 | n/a | n/a | 0.001207 | NP Inter(normality) |
| Chromium, total (mg/L) | n/a | 0.00158 | 130 | n/a | n/a | 3.077 | n/a | n/a | 0.001271 | NP Inter(normality) |
| Cobalt, total (mg/L) | n/a | 0.00334 | 130 | n/a | n/a | 0.7692 | n/a | n/a | 0.001271 | NP Inter(normality) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 2.505 | 130 | 1.117 | 0.736 | 0 | None | No | 0.05 | Inter |
| Fluoride, total (mg/L) | n/a | 0.7 | 143 | n/a | n/a | 0 | n/a | n/a | 0.0006523 | NP Inter(normality) |
| Lead, total (mg/L) | n/a | 0.0005761 | 130 | -9.401 | 1.029 | 10 | None | ln(x) | 0.05 | Inter |
| Lithium, total (mg/L) | n/a | 0.038 | 131 | n/a | n/a | 16.79 | n/a | n/a | 0.001207 | NP Inter(normality) |
| Mercury, total (mg/L) | n/a | 0.000005 | 107 | n/a | n/a | 86.92 | n/a | n/a | 0.004135 | NP Inter(NDs) |
| Molybdenum, total (mg/L) | n/a | 0.00867 | 126 | n/a | n/a | 0 | n/a | n/a | 0.00156 | NP Inter(normality) |
| Selenium, total (mg/L) | n/a | 0.0038 | 131 | n/a | n/a | 37.4 | n/a | n/a | 0.001207 | NP Inter(normality) |
| Thallium, total (mg/L) | n/a | 0.002 | 125 | n/a | n/a | 47.2 | n/a | n/a | 0.001642 | NP Inter(normality) |

| ROCKPORT BAP GWPS | | | | |
|--------------------------------|------------|-----------------------|-------------------------|-------------|
| Constituent Name | MCL | Rule Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.0005 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.056 | 0.056 |
| Barium, Total (mg/L) | 2 | | 1 | 2 |
| Beryllium, Total (mg/L) | 0.004 | | 0.0005 | 0.004 |
| Cadmium, Total (mg/L) | 0.005 | | 0.00028 | 0.005 |
| Chromium, Total (mg/L) | 0.1 | | 0.0016 | 0.1 |
| Cobalt, Total (mg/L) | n/a | 0.006 | 0.0033 | 0.006 |
| Combined Radium, Total (pCi/L) | 5 | | 2.51 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.7 | 4 |
| Lead, Total (mg/L) | 0.015 | | 0.00058 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.038 | 0.04 |
| Mercury, Total (mg/L) | 0.002 | | 0.000005 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.0087 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.0038 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.002 | 0.002 |

**Grey cell indicates background is higher than MCL.*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:29 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-------------------------|----------|-------------|-------------|------------|------|----|------------|-------------|-------|---------|-----------|-------|------------------|
| Antimony, total (mg/L) | MW-1002 | 0.00006 | 0.00004 | 0.006 | No | 13 | 0.00005077 | 0.000007596 | 0 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1602D | 0.00005 | 0.00001 | 0.006 | No | 13 | 0.00003538 | 0.00004352 | 15.38 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1602I | 0.000063490 | 0.000023960 | 0.006 | No | 13 | 0.00004846 | 0.00003693 | 0 | None | ln(x) | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1603D | 0.00005 | 0.00001 | 0.006 | No | 13 | 0.00003308 | 0.00002359 | 23.08 | None | No | 0.01 | NP (Cohens/xfrm) |
| Antimony, total (mg/L) | MW-1603I | 0.000059550 | 0.000028410 | 0.006 | No | 13 | 0.00004538 | 0.00002402 | 0 | None | x^(1/3) | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1603S | 0.000052110 | 0.000036670 | 0.006 | No | 13 | 0.00004462 | 0.0000105 | 0 | None | sqrt(x) | 0.01 | Param. |
| Antimony, total (mg/L) | MW-1604D | 0.00005 | 0.00001 | 0.006 | No | 13 | 0.00002923 | 0.00001656 | 23.08 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1604I | 0.00004 | 0.00002 | 0.006 | No | 12 | 0.00002833 | 0.00001193 | 0 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1604S | 0.00007 | 0.00005 | 0.006 | No | 13 | 0.00006462 | 0.00002145 | 0 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1605D | 0.00005 | 0.00001 | 0.006 | No | 13 | 0.00002538 | 0.00001761 | 15.38 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1605I | 0.00005 | 0.00002 | 0.006 | No | 13 | 0.00005308 | 0.00005991 | 7.692 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1605S | 0.00011 | 0.00004 | 0.006 | No | 13 | 0.00006154 | 0.00003555 | 0 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1606D | 0.00005 | 0.00001 | 0.006 | No | 13 | 0.00003038 | 0.00001613 | 30.77 | None | No | 0.01 | NP (Cohens/xfrm) |
| Antimony, total (mg/L) | MW-1606I | 0.00005 | 0.00002 | 0.006 | No | 13 | 0.00004538 | 0.0000624 | 15.38 | None | No | 0.01 | NP (normality) |
| Antimony, total (mg/L) | MW-1606S | 0.00014 | 0.00004 | 0.006 | No | 13 | 0.00007385 | 0.00005966 | 7.692 | None | No | 0.01 | NP (normality) |
| Arsenic, total (mg/L) | MW-1002 | 0.00032 | 0.00021 | 0.056 | No | 13 | 0.0002615 | 0.00006296 | 0 | None | No | 0.01 | NP (normality) |
| Arsenic, total (mg/L) | MW-1602D | 0.009386 | 0.00814 | 0.056 | No | 13 | 0.008763 | 0.0008383 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1602I | 0.02865 | 0.01866 | 0.056 | No | 13 | 0.02365 | 0.006719 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1603D | 0.01248 | 0.01093 | 0.056 | No | 13 | 0.01171 | 0.001043 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1603I | 0.01293 | 0.01246 | 0.056 | No | 13 | 0.01269 | 0.0003148 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1603S | 0.00036 | 0.00018 | 0.056 | No | 13 | 0.0002269 | 0.00006486 | 0 | None | No | 0.01 | NP (normality) |
| Arsenic, total (mg/L) | MW-1604D | 0.01889 | 0.01631 | 0.056 | No | 13 | 0.0176 | 0.001735 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1604I | 0.0212 | 0.0187 | 0.056 | No | 13 | 0.02012 | 0.002072 | 0 | None | No | 0.01 | NP (normality) |
| Arsenic, total (mg/L) | MW-1604S | 0.0003827 | 0.0002074 | 0.056 | No | 13 | 0.0003085 | 0.0001604 | 0 | None | ln(x) | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1605D | 0.01956 | 0.01703 | 0.056 | No | 13 | 0.01829 | 0.001699 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1605I | 0.02191 | 0.01786 | 0.056 | No | 13 | 0.01996 | 0.002928 | 0 | None | ln(x) | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1605S | 0.0005403 | 0.0003488 | 0.056 | No | 11 | 0.0004445 | 0.0001149 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1606D | 0.01627 | 0.01348 | 0.056 | No | 13 | 0.01488 | 0.001874 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1606I | 0.007715 | 0.004274 | 0.056 | No | 13 | 0.005995 | 0.002314 | 0 | None | No | 0.01 | Param. |
| Arsenic, total (mg/L) | MW-1606S | 0.0003344 | 0.0001955 | 0.056 | No | 13 | 0.0002738 | 0.0001213 | 0 | None | ln(x) | 0.01 | Param. |
| Barium, total (mg/L) | MW-1002 | 0.02397 | 0.01398 | 2 | No | 13 | 0.0192 | 0.007186 | 0 | None | sqrt(x) | 0.01 | Param. |
| Barium, total (mg/L) | MW-1602D | 0.4958 | 0.4119 | 2 | No | 13 | 0.4538 | 0.05637 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1602I | 0.1323 | 0.1188 | 2 | No | 13 | 0.1255 | 0.009061 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1603D | 0.1155 | 0.1077 | 2 | No | 13 | 0.1116 | 0.005205 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1603I | 0.08713 | 0.08079 | 2 | No | 13 | 0.08396 | 0.004266 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1603S | 0.0173 | 0.01258 | 2 | No | 13 | 0.01494 | 0.003178 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1604D | 0.2562 | 0.2329 | 2 | No | 13 | 0.2445 | 0.01565 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1604I | 0.1325 | 0.1152 | 2 | No | 13 | 0.1238 | 0.01159 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1604S | 0.0217 | 0.0133 | 2 | No | 13 | 0.01945 | 0.0085 | 0 | None | No | 0.01 | NP (normality) |
| Barium, total (mg/L) | MW-1605D | 0.4622 | 0.4021 | 2 | No | 13 | 0.4322 | 0.0404 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1605I | 0.166 | 0.1454 | 2 | No | 13 | 0.1557 | 0.01386 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1605S | 0.0125 | 0.00761 | 2 | No | 13 | 0.00925 | 0.002361 | 0 | None | No | 0.01 | NP (normality) |
| Barium, total (mg/L) | MW-1606D | 0.4261 | 0.3712 | 2 | No | 13 | 0.3987 | 0.03692 | 0 | None | No | 0.01 | Param. |
| Barium, total (mg/L) | MW-1606I | 0.0781 | 0.0481 | 2 | No | 13 | 0.06072 | 0.01359 | 0 | None | No | 0.01 | NP (normality) |
| Barium, total (mg/L) | MW-1606S | 0.01426 | 0.01054 | 2 | No | 13 | 0.0124 | 0.002504 | 0 | None | No | 0.01 | Param. |
| Beryllium, total (mg/L) | MW-1002 | 0.0001 | 0.000006 | 0.004 | No | 13 | 0.00003615 | 0.00003681 | 76.92 | None | No | 0.01 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1602D | 0.0001 | 0.000006 | 0.004 | No | 13 | 0.00002838 | 0.00003234 | 53.85 | None | No | 0.01 | NP (normality) |
| Beryllium, total (mg/L) | MW-1602I | 0.0001 | 0.000006 | 0.004 | No | 13 | 0.00003438 | 0.00003789 | 61.54 | None | No | 0.01 | NP (normality) |
| Beryllium, total (mg/L) | MW-1603D | 0.0001 | 0.000009 | 0.004 | No | 13 | 0.00004138 | 0.0000349 | 76.92 | None | No | 0.01 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1603I | 0.0001 | 0.00001 | 0.004 | No | 13 | 0.00003769 | 0.00003563 | 84.62 | None | No | 0.01 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1603S | 0.0001 | 0.00001 | 0.004 | No | 13 | 0.000036 | 0.00003676 | 69.23 | None | No | 0.01 | NP (normality) |
| Beryllium, total (mg/L) | MW-1604D | 0.0001 | 0.000004 | 0.004 | No | 13 | 0.00003723 | 0.00003605 | 84.62 | None | No | 0.01 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1604I | 0.0001 | 0.000004 | 0.004 | No | 13 | 0.00003723 | 0.00003605 | 84.62 | None | No | 0.01 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1604S | 0.0001 | 0.000007 | 0.004 | No | 13 | 0.00003931 | 0.00003682 | 69.23 | None | No | 0.01 | NP (normality) |
| Beryllium, total (mg/L) | MW-1605D | 0.0001 | 0.00001 | 0.004 | No | 13 | 0.00003769 | 0.00003563 | 84.62 | None | No | 0.01 | NP (NDs) |

Confidence Interval Summary Table - All Results (No Significant) Page 2

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:29 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|-------------|-------------|------------|------|----|------------|------------|-------|---------|-----------|-------|------------------|
| Beryllium, total (mg/L) | MW-1605I | 0.0001 | 0.000004 | 0.004 | No | 13 | 0.00006677 | 0.0001339 | 76.92 | None | No | 0.01 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1605S | 0.00004 | 0.000004 | 0.004 | No | 13 | 0.000028 | 0.00002349 | 69.23 | None | No | 0.01 | NP (normality) |
| Beryllium, total (mg/L) | MW-1606D | 0.0001 | 0.000006 | 0.004 | No | 13 | 0.00003646 | 0.000037 | 61.54 | None | No | 0.01 | NP (Cohens/xfrm) |
| Beryllium, total (mg/L) | MW-1606I | 0.0001 | 0.000007 | 0.004 | No | 13 | 0.00006823 | 0.0001333 | 84.62 | None | No | 0.01 | NP (NDs) |
| Beryllium, total (mg/L) | MW-1606S | 0.0001 | 0.000005 | 0.004 | No | 13 | 0.00006562 | 0.0001344 | 53.85 | None | No | 0.01 | NP (Cohens/xfrm) |
| Cadmium, total (mg/L) | MW-1002 | 0.00007 | 0.00002 | 0.005 | No | 13 | 0.00004308 | 0.00003473 | 0 | None | No | 0.01 | NP (normality) |
| Cadmium, total (mg/L) | MW-1602D | 0.00005 | 0.00001 | 0.005 | No | 13 | 0.00002846 | 0.00001725 | 69.23 | None | No | 0.01 | NP (normality) |
| Cadmium, total (mg/L) | MW-1602I | 0.00003 | 0.000006 | 0.005 | No | 13 | 0.00001923 | 0.00001574 | 38.46 | None | No | 0.01 | NP (Cohens/xfrm) |
| Cadmium, total (mg/L) | MW-1603D | 0.00005 | 0.000009 | 0.005 | No | 13 | 0.00002508 | 0.00001542 | 61.54 | None | No | 0.01 | NP (Cohens/xfrm) |
| Cadmium, total (mg/L) | MW-1603I | 0.00005 | 0.000007 | 0.005 | No | 13 | 0.00002162 | 0.00001382 | 61.54 | None | No | 0.01 | NP (normality) |
| Cadmium, total (mg/L) | MW-1603S | 0.00003 | 0.00002 | 0.005 | No | 13 | 0.00002615 | 0.00001121 | 0 | None | No | 0.01 | NP (normality) |
| Cadmium, total (mg/L) | MW-1604D | 0.00005 | 0.000008 | 0.005 | No | 13 | 0.000025 | 0.00001497 | 76.92 | None | No | 0.01 | NP (NDs) |
| Cadmium, total (mg/L) | MW-1604I | 0.00005 | 0.000009 | 0.005 | No | 13 | 0.00003262 | 0.00003024 | 69.23 | None | No | 0.01 | NP (Cohens/xfrm) |
| Cadmium, total (mg/L) | MW-1604S | 0.00003 | 0.00001 | 0.005 | No | 13 | 0.00002538 | 0.00002025 | 0 | None | No | 0.01 | NP (normality) |
| Cadmium, total (mg/L) | MW-1605D | 0.00005 | 0.000006 | 0.005 | No | 13 | 0.00002585 | 0.00001429 | 84.62 | None | No | 0.01 | NP (NDs) |
| Cadmium, total (mg/L) | MW-1605I | 0.00005 | 0.000008 | 0.005 | No | 13 | 0.00003546 | 0.00005132 | 69.23 | None | No | 0.01 | NP (Cohens/xfrm) |
| Cadmium, total (mg/L) | MW-1605S | 0.00007 | 0.00003 | 0.005 | No | 13 | 0.00004231 | 0.00002315 | 0 | None | No | 0.01 | NP (normality) |
| Cadmium, total (mg/L) | MW-1606D | 0.00005 | 0.000007 | 0.005 | No | 13 | 0.00002592 | 0.00001418 | 76.92 | None | No | 0.01 | NP (NDs) |
| Cadmium, total (mg/L) | MW-1606I | 0.00005 | 0.000005 | 0.005 | No | 13 | 0.00003531 | 0.00005143 | 69.23 | None | No | 0.01 | NP (Cohens/xfrm) |
| Cadmium, total (mg/L) | MW-1606S | 0.000044120 | 0.000020490 | 0.005 | No | 13 | 0.00003231 | 0.00001589 | 0 | None | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1002 | 0.0003252 | 0.000080960 | 1 | No | 13 | 0.0002168 | 0.0001951 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1602D | 0.0004254 | 0.0001444 | 0.1 | No | 13 | 0.0002849 | 0.0001889 | 0 | None | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1602I | 0.0003282 | 0.0001335 | 0.1 | No | 13 | 0.0002308 | 0.0001309 | 0 | None | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1603D | 0.0002277 | 0.000097470 | 1 | No | 12 | 0.0001626 | 0.00008298 | 0 | None | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1603I | 0.0005654 | 0.0001185 | 0.1 | No | 13 | 0.0003698 | 0.0003461 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1603S | 0.0003682 | 0.0000895 | 0.1 | No | 13 | 0.0002288 | 0.0001874 | 0 | None | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1604D | 0.0001771 | 0.000072490 | 1 | No | 13 | 0.0001248 | 0.00007031 | 0 | None | No | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1604I | 0.0002665 | 0.000075790 | 1 | No | 13 | 0.0001865 | 0.0001651 | 0 | None | x^(1/3) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1604S | 0.0003766 | 0.000099420 | 1 | No | 13 | 0.0002529 | 0.0002154 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1605D | 0.0003262 | 0.000122 | 0.1 | No | 13 | 0.0002323 | 0.0001543 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1605I | 0.0002912 | 0.0000797 | 0.1 | No | 13 | 0.0002371 | 0.0003116 | 7.692 | None | ln(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1605S | 0.0004374 | 0.0001146 | 0.1 | No | 13 | 0.0002935 | 0.000256 | 0 | None | sqrt(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1606D | 0.0002652 | 0.0000874 | 0.1 | No | 13 | 0.0002021 | 0.0001828 | 0 | None | ln(x) | 0.01 | Param. |
| Chromium, total (mg/L) | MW-1606I | 0.0005 | 0.00007 | 0.1 | No | 13 | 0.0001963 | 0.0001657 | 15.38 | None | No | 0.01 | NP (Cohens/xfrm) |
| Chromium, total (mg/L) | MW-1606S | 0.0005057 | 0.0001279 | 0.1 | No | 13 | 0.0003895 | 0.0004145 | 7.692 | None | ln(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1002 | 0.0008036 | 0.0006359 | 0.006 | No | 13 | 0.0007198 | 0.0001128 | 0 | None | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1602D | 0.0002098 | 0.000095710 | 0.006 | No | 13 | 0.0001565 | 0.00008524 | 0 | None | sqrt(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1602I | 0.00175 | 0.00132 | 0.006 | No | 13 | 0.001494 | 0.000178 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt, total (mg/L) | MW-1603D | 0.0009397 | 0.0003979 | 0.006 | No | 13 | 0.0007276 | 0.0005086 | 0 | None | ln(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1603I | 0.001408 | 0.001229 | 0.006 | No | 13 | 0.001318 | 0.0001205 | 0 | None | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1603S | 0.0005619 | 0.0002282 | 0.006 | No | 13 | 0.0003951 | 0.0002244 | 0 | None | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1604D | 0.000088650 | 0.000054590 | 0.006 | No | 13 | 0.00007231 | 0.00002429 | 0 | None | sqrt(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1604I | 0.000924 | 0.0007426 | 0.006 | No | 13 | 0.0008333 | 0.000122 | 0 | None | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1604S | 0.000955 | 0.000285 | 0.006 | No | 13 | 0.0004549 | 0.000274 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt, total (mg/L) | MW-1605D | 0.0001721 | 0.000092240 | 0.006 | No | 13 | 0.0001378 | 0.00006674 | 0 | None | ln(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1605I | 0.001627 | 0.001373 | 0.006 | No | 13 | 0.0015 | 0.0001702 | 0 | None | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1605S | 0.00246 | 0.000307 | 0.006 | No | 13 | 0.0008297 | 0.001099 | 0 | None | No | 0.01 | NP (normality) |
| Cobalt, total (mg/L) | MW-1606D | 0.0001196 | 0.000075090 | 0.006 | No | 12 | 0.000098 | 0.00003066 | 0 | None | sqrt(x) | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1606I | 0.001525 | 0.000899 | 0.006 | No | 13 | 0.001212 | 0.0004209 | 0 | None | No | 0.01 | Param. |
| Cobalt, total (mg/L) | MW-1606S | 0.0002605 | 0.0000593 | 0.006 | No | 13 | 0.0002039 | 0.0002391 | 7.692 | None | ln(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1002 | 1.186 | 0.3022 | 5 | No | 13 | 0.7926 | 0.7578 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1602D | 1.768 | 0.7723 | 5 | No | 13 | 1.38 | 0.9913 | 0 | None | ln(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1602I | 1.216 | 0.8284 | 5 | No | 13 | 1.022 | 0.2606 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1603D | 1.269 | 0.7088 | 5 | No | 13 | 0.989 | 0.3768 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1603I | 1.83 | 0.8885 | 5 | No | 13 | 1.359 | 0.6332 | 0 | None | No | 0.01 | Param. |

Confidence Interval Summary Table - All Results (No Significant) Page 3

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:29 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|-----------------------------------|----------|-------------|-------------|------------|------|----|------------|------------|-------|---------|-----------|-------|------------------|
| Combined Radium 226 + 228 (pCi/L) | MW-1603S | 1.322 | 0.3399 | 5 | No | 13 | 0.8848 | 0.8092 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1604D | 1.163 | 0.5394 | 5 | No | 13 | 0.8712 | 0.4788 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1604I | 1.314 | 0.713 | 5 | No | 13 | 1.013 | 0.404 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1604S | 0.9937 | 0.3551 | 5 | No | 13 | 0.6744 | 0.4294 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1605D | 1.507 | 0.8107 | 5 | No | 13 | 1.159 | 0.468 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1605I | 2.093 | 1.405 | 5 | No | 13 | 1.749 | 0.4628 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1605S | 0.7836 | 0.1495 | 5 | No | 13 | 0.5081 | 0.4877 | 0 | None | sqrt(x) | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1606D | 1.468 | 0.5976 | 5 | No | 13 | 1.033 | 0.5854 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1606I | 1.194 | 0.7186 | 5 | No | 12 | 0.9563 | 0.303 | 0 | None | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | MW-1606S | 1.213 | 0.3017 | 5 | No | 13 | 0.7571 | 0.6125 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1002 | 1.023 | 0.8437 | 4 | No | 16 | 0.9275 | 0.1415 | 0 | None | x^2 | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1602D | 0.3346 | 0.2974 | 4 | No | 15 | 0.316 | 0.02746 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1602I | 0.2988 | 0.2666 | 4 | No | 15 | 0.2827 | 0.02374 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1603D | 0.3036 | 0.2697 | 4 | No | 15 | 0.2867 | 0.02498 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1603I | 0.4523 | 0.3931 | 4 | No | 15 | 0.4227 | 0.04367 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1603S | 0.5431 | 0.3529 | 4 | No | 15 | 0.448 | 0.1403 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1604D | 0.2763 | 0.245 | 4 | No | 15 | 0.2607 | 0.02314 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1604I | 0.3463 | 0.307 | 4 | No | 15 | 0.3267 | 0.02895 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1604S | 1.02 | 0.83 | 4 | No | 16 | 0.9544 | 0.1947 | 0 | None | No | 0.01 | NP (normality) |
| Fluoride, total (mg/L) | MW-1605D | 0.2213 | 0.1867 | 4 | No | 15 | 0.204 | 0.02558 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1605I | 0.2111 | 0.172 | 4 | No | 15 | 0.19 | 0.03229 | 0 | None | x^2 | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1605S | 0.5679 | 0.4909 | 4 | No | 16 | 0.5294 | 0.05916 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1606D | 0.1977 | 0.1703 | 4 | No | 15 | 0.184 | 0.02028 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1606I | 0.2017 | 0.1783 | 4 | No | 15 | 0.19 | 0.01732 | 0 | None | No | 0.01 | Param. |
| Fluoride, total (mg/L) | MW-1606S | 0.4582 | 0.3905 | 4 | No | 16 | 0.4244 | 0.05202 | 0 | None | No | 0.01 | Param. |
| Lead, total (mg/L) | MW-1002 | 0.0001 | 0.00002 | 0.015 | No | 13 | 0.00004415 | 0.00004196 | 15.38 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1602D | 0.0001283 | 0.000022420 | 0.015 | No | 13 | 0.00008862 | 0.0001166 | 7.692 | None | x^(1/3) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1602I | 0.0002171 | 0.000057660 | 0.015 | No | 13 | 0.0001459 | 0.0001206 | 0 | None | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1603D | 0.000078080 | 0.000014850 | 0.015 | No | 12 | 0.0000495 | 0.00005437 | 8.333 | None | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1603I | 0.0001771 | 0.000030740 | 0.015 | No | 13 | 0.000114 | 0.000118 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1603S | 0.000171 | 0.000025 | 0.015 | No | 13 | 0.00009246 | 0.00008663 | 23.08 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1604D | 0.000064 | 0.000018 | 0.015 | No | 13 | 0.000041 | 0.00003094 | 7.692 | None | No | 0.01 | Param. |
| Lead, total (mg/L) | MW-1604I | 0.000093 | 0.00001 | 0.015 | No | 13 | 0.00003785 | 0.00003018 | 23.08 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1604S | 0.0001159 | 0.000022070 | 0.015 | No | 12 | 0.0000735 | 0.00008269 | 8.333 | None | sqrt(x) | 0.01 | Param. |
| Lead, total (mg/L) | MW-1605D | 0.0001 | 0.000009 | 0.015 | No | 13 | 0.000056 | 0.00007006 | 23.08 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1605I | 0.000152 | 0.000050930 | 0.015 | No | 13 | 0.0001015 | 0.00006795 | 7.692 | None | No | 0.01 | Param. |
| Lead, total (mg/L) | MW-1605S | 0.00152 | 0.000021 | 0.015 | No | 13 | 0.0003208 | 0.0006387 | 0 | None | No | 0.01 | NP (normality) |
| Lead, total (mg/L) | MW-1606D | 0.000141 | 0.00001 | 0.015 | No | 13 | 0.00005477 | 0.00006369 | 30.77 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1606I | 0.000166 | 0.00002 | 0.015 | No | 13 | 0.00006623 | 0.0000693 | 30.77 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lead, total (mg/L) | MW-1606S | 0.000386 | 0.00002 | 0.015 | No | 13 | 0.0002178 | 0.0003578 | 23.08 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lithium, total (mg/L) | MW-1002 | 0.02381 | 0.004436 | 0.04 | No | 13 | 0.008068 | 0.005223 | 23.08 | Cohen's | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1602D | 0.01204 | 0.003172 | 0.04 | No | 13 | 0.007605 | 0.005961 | 7.692 | None | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1602I | 0.0114 | 0.004715 | 0.04 | No | 13 | 0.008055 | 0.004492 | 7.692 | None | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1603D | 0.01882 | 0.003793 | 0.04 | No | 13 | 0.008369 | 0.003861 | 15.38 | Cohen's | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1603I | 0.02438 | 0.00705 | 0.04 | No | 13 | 0.009816 | 0.00471 | 23.08 | Cohen's | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1603S | 0.02366 | 0.004112 | 0.04 | No | 13 | 0.007818 | 0.005178 | 23.08 | Cohen's | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1604D | 0.01 | 0.00157 | 0.04 | No | 13 | 0.005659 | 0.005128 | 30.77 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lithium, total (mg/L) | MW-1604I | 0.01224 | 0.006331 | 0.04 | No | 13 | 0.009286 | 0.003975 | 7.692 | None | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1604S | 0.01433 | 0.009381 | 0.04 | No | 13 | 0.01186 | 0.003329 | 7.692 | None | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1605D | 0.007 | 0.003 | 0.04 | No | 13 | 0.006212 | 0.004167 | 15.38 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lithium, total (mg/L) | MW-1605I | 0.01096 | 0.005545 | 0.04 | No | 13 | 0.008252 | 0.003642 | 0 | None | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1605S | 0.0178 | 0.01248 | 0.04 | No | 13 | 0.01514 | 0.003575 | 7.692 | None | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1606D | 0.009 | 0.000651 | 0.04 | No | 13 | 0.005473 | 0.00491 | 23.08 | None | No | 0.01 | NP (Cohens/xfrm) |
| Lithium, total (mg/L) | MW-1606I | 0.01041 | 0.005598 | 0.04 | No | 13 | 0.008004 | 0.003235 | 7.692 | None | No | 0.01 | Param. |
| Lithium, total (mg/L) | MW-1606S | 0.01344 | 0.009195 | 0.04 | No | 13 | 0.01132 | 0.002856 | 7.692 | None | No | 0.01 | Param. |

Confidence Interval Summary Table - All Results (No Significant) Page 4

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:29 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------|----------|-------------|-------------|------------|------|----|------------|------------|-------|---------|-----------|-------|------------------|
| Mercury, total (mg/L) | MW-1002 | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1602D | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1602I | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1603D | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1603I | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1603S | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1604D | 0.000005 | 0.000002 | 0.002 | No | 12 | 0.00000475 | 8.7e-7 | 83.33 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1604I | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1604S | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1605D | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1605I | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1605S | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1606D | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1606I | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Mercury, total (mg/L) | MW-1606S | 0.000005 | 0.000005 | 0.002 | No | 12 | 0.000005 | 3.6e-14 | 91.67 | None | No | 0.01 | NP (NDs) |
| Molybdenum, total (mg/L) | MW-1002 | 0.0102 | 0.00247 | 0.1 | No | 13 | 0.005017 | 0.003184 | 0 | None | No | 0.01 | NP (normality) |
| Molybdenum, total (mg/L) | MW-1602D | 0.003949 | 0.003293 | 0.1 | No | 13 | 0.003621 | 0.000441 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1602I | 0.002385 | 0.002061 | 0.1 | No | 13 | 0.002225 | 0.0002226 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1603D | 0.005733 | 0.004325 | 0.1 | No | 13 | 0.005045 | 0.0009801 | 0 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1603I | 0.009216 | 0.007441 | 0.1 | No | 13 | 0.008328 | 0.001194 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1603S | 0.001227 | 0.0003115 | 0.1 | No | 13 | 0.00082 | 0.0007461 | 7.692 | None | sqrt(x) | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1604D | 0.003292 | 0.002634 | 0.1 | No | 13 | 0.002963 | 0.0004425 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1604I | 0.002877 | 0.002497 | 0.1 | No | 13 | 0.002687 | 0.0002558 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1604S | 0.00261 | 0.00188 | 0.1 | No | 12 | 0.002448 | 0.0008436 | 0 | None | No | 0.01 | NP (normality) |
| Molybdenum, total (mg/L) | MW-1605D | 0.002564 | 0.001994 | 0.1 | No | 12 | 0.002285 | 0.0003837 | 0 | None | x^(1/3) | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1605I | 0.001324 | 0.001074 | 0.1 | No | 12 | 0.001199 | 0.0001596 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1605S | 0.002135 | 0.001663 | 0.1 | No | 13 | 0.001899 | 0.0003172 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1606D | 0.002168 | 0.001871 | 0.1 | No | 12 | 0.002019 | 0.0001894 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1606I | 0.001724 | 0.001099 | 0.1 | No | 12 | 0.001412 | 0.0003981 | 0 | None | No | 0.01 | Param. |
| Molybdenum, total (mg/L) | MW-1606S | 0.001513 | 0.0009896 | 0.1 | No | 12 | 0.001258 | 0.0003515 | 0 | None | sqrt(x) | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1002 | 0.000090980 | 0.000064410 | 0.05 | No | 13 | 0.00007769 | 0.00001787 | 0 | None | No | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1602D | 0.0001 | 0.00003 | 0.05 | No | 13 | 0.00006615 | 0.00003203 | 30.77 | None | No | 0.01 | NP (normality) |
| Selenium, total (mg/L) | MW-1602I | 0.0001 | 0.00003 | 0.05 | No | 13 | 0.00007846 | 0.00004652 | 38.46 | None | No | 0.01 | NP (Cohens/xfrm) |
| Selenium, total (mg/L) | MW-1603D | 0.0002 | 0.00004 | 0.05 | No | 13 | 0.0001231 | 0.0000792 | 53.85 | None | No | 0.01 | NP (Cohens/xfrm) |
| Selenium, total (mg/L) | MW-1603I | 0.0001 | 0.00005 | 0.05 | No | 13 | 0.0001023 | 0.00004816 | 61.54 | None | No | 0.01 | NP (Cohens/xfrm) |
| Selenium, total (mg/L) | MW-1603S | 0.0003244 | 0.000064060 | 0.05 | No | 13 | 0.0002754 | 0.0004083 | 7.692 | None | ln(x) | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1604D | 0.0002 | 0.00004 | 0.05 | No | 13 | 0.00011 | 0.00005686 | 69.23 | None | No | 0.01 | NP (normality) |
| Selenium, total (mg/L) | MW-1604I | 0.0001 | 0.00003 | 0.05 | No | 13 | 0.00007923 | 0.000029 | 38.46 | None | No | 0.01 | NP (normality) |
| Selenium, total (mg/L) | MW-1604S | 0.000133 | 0.000053690 | 0.05 | No | 13 | 0.00009769 | 0.00006126 | 0 | None | x^(1/3) | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1605D | 0.0002 | 0.00004 | 0.05 | No | 13 | 0.0001077 | 0.0000596 | 69.23 | None | No | 0.01 | NP (normality) |
| Selenium, total (mg/L) | MW-1605I | 0.0002 | 0.00004 | 0.05 | No | 13 | 0.0001554 | 0.0002577 | 53.85 | None | No | 0.01 | NP (normality) |
| Selenium, total (mg/L) | MW-1605S | 0.001316 | 0.0006004 | 0.05 | No | 12 | 0.0009583 | 0.0004562 | 0 | None | No | 0.01 | Param. |
| Selenium, total (mg/L) | MW-1606D | 0.0002 | 0.00005 | 0.05 | No | 13 | 0.0001115 | 0.00005475 | 69.23 | None | No | 0.01 | NP (normality) |
| Selenium, total (mg/L) | MW-1606I | 0.0002 | 0.00005 | 0.05 | No | 13 | 0.0001754 | 0.0002522 | 76.92 | None | No | 0.01 | NP (NDs) |
| Selenium, total (mg/L) | MW-1606S | 0.004684 | 0.002824 | 0.05 | No | 13 | 0.003754 | 0.001251 | 0 | None | No | 0.01 | Param. |
| Thallium, total (mg/L) | MW-1002 | 0.0005 | 0.00002 | 0.002 | No | 13 | 0.0001408 | 0.000205 | 23.08 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1602D | 0.0005 | 0.00002 | 0.002 | No | 13 | 0.0001505 | 0.0001997 | 69.23 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1602I | 0.0005 | 0.00001 | 0.002 | No | 13 | 0.0001377 | 0.0002069 | 30.77 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1603D | 0.0005 | 0.00003 | 0.002 | No | 13 | 0.0001522 | 0.0001994 | 53.85 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1603I | 0.0005 | 0.00003 | 0.002 | No | 13 | 0.0001438 | 0.0002032 | 23.08 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1603S | 0.0005 | 0.00002 | 0.002 | No | 13 | 0.0001435 | 0.0002043 | 23.08 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1604D | 0.0005 | 0.00002 | 0.002 | No | 13 | 0.0001519 | 0.0001994 | 69.23 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1604I | 0.0005 | 0.00001 | 0.002 | No | 13 | 0.0001385 | 0.000207 | 23.08 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1604S | 0.0005 | 0.00002 | 0.002 | No | 13 | 0.0001472 | 0.0002022 | 23.08 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1605D | 0.0005 | 0.00003 | 0.002 | No | 13 | 0.0001492 | 0.0002003 | 76.92 | None | No | 0.01 | NP (NDs) |

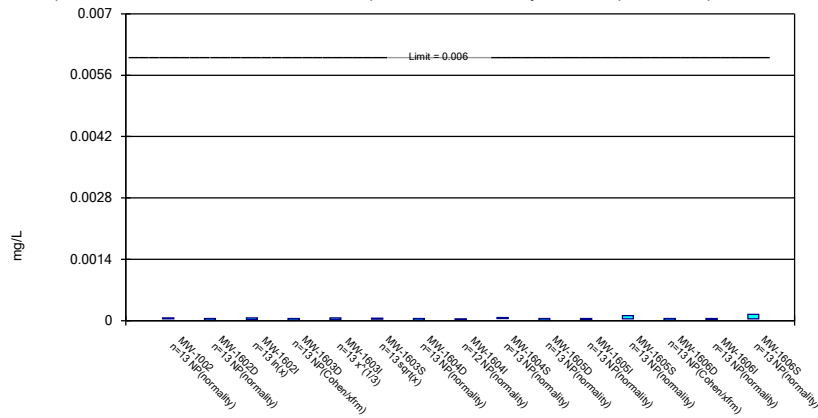
Confidence Interval Summary Table - All Results (No Significant) ^{Page 5}

Rockport BAP Client: Geosyntec Data: Rockport_BAP Printed 12/8/2019, 2:29 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | Mean | Std. Dev. | %NDs | ND Adj. | Transform | Alpha | Method |
|------------------------|----------|------------|------------|------------|------|----|-----------|-----------|-------|---------|-----------|-------|----------------|
| Thallium, total (mg/L) | MW-1605I | 0.0005 | 0.00002 | 0.002 | No | 13 | 0.0002672 | 0.0005489 | 23.08 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1605S | 0.0001 | 0.00002 | 0.002 | No | 13 | 0.0001108 | 0.0001741 | 15.38 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1606D | 0.0005 | 0.00003 | 0.002 | No | 13 | 0.0001557 | 0.0001977 | 69.23 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1606I | 0.0005 | 0.00003 | 0.002 | No | 13 | 0.0002648 | 0.0005485 | 23.08 | None | No | 0.01 | NP (normality) |
| Thallium, total (mg/L) | MW-1606S | 0.0005 | 0.00001 | 0.002 | No | 13 | 0.0002552 | 0.0005528 | 30.77 | None | No | 0.01 | NP (normality) |

Parametric and Non-Parametric (NP) Confidence Interval

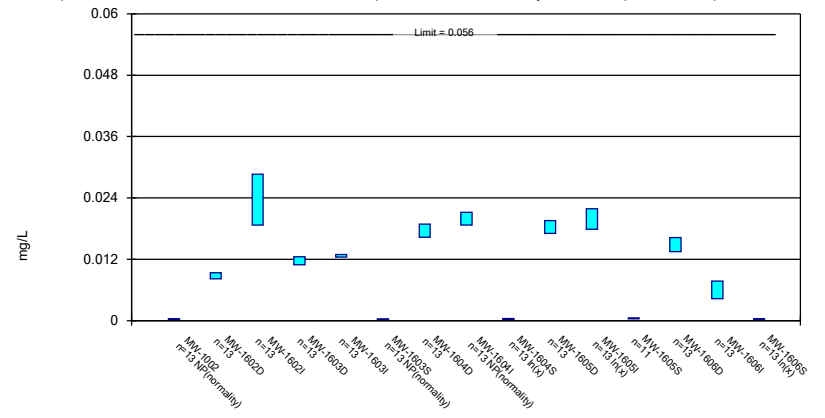
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

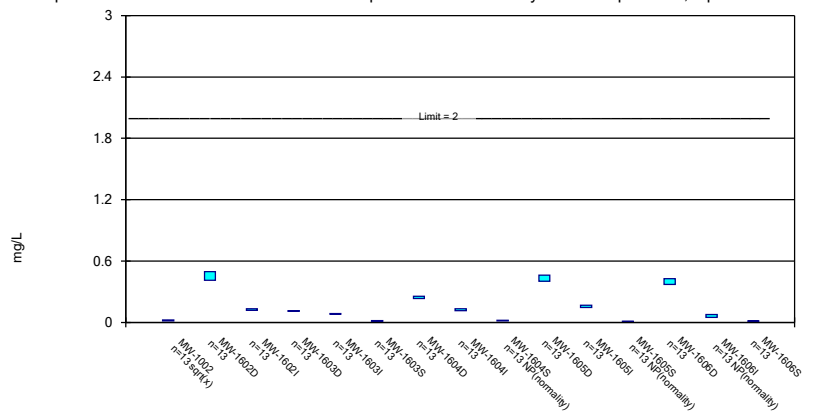
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

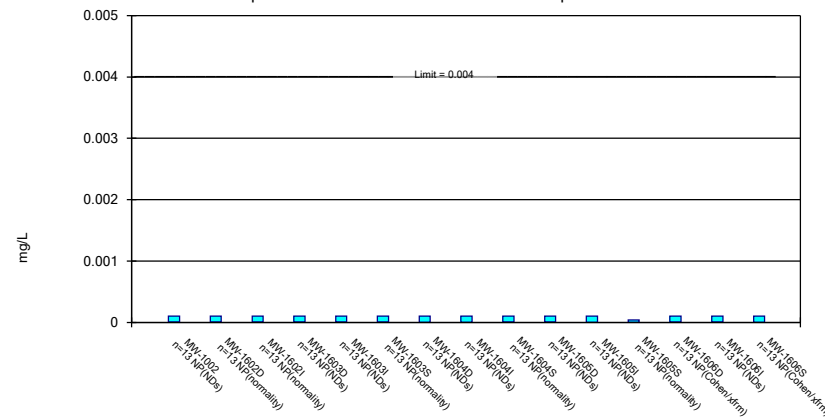
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

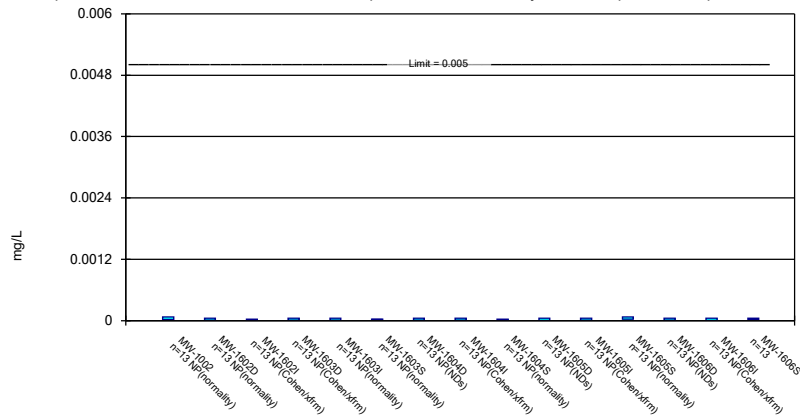
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

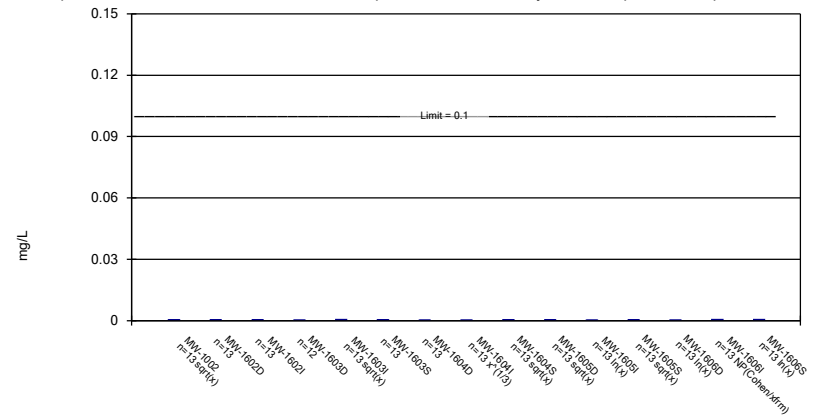
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

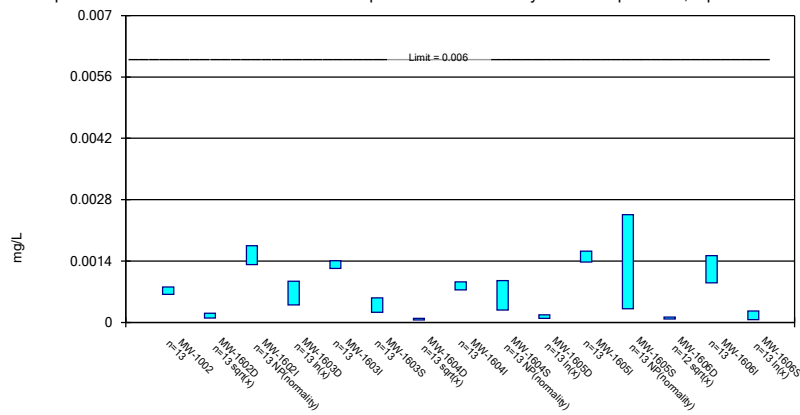
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

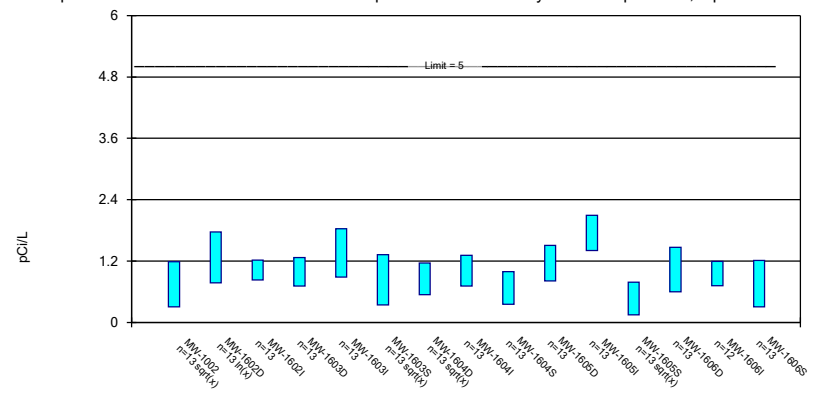
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric Confidence Interval

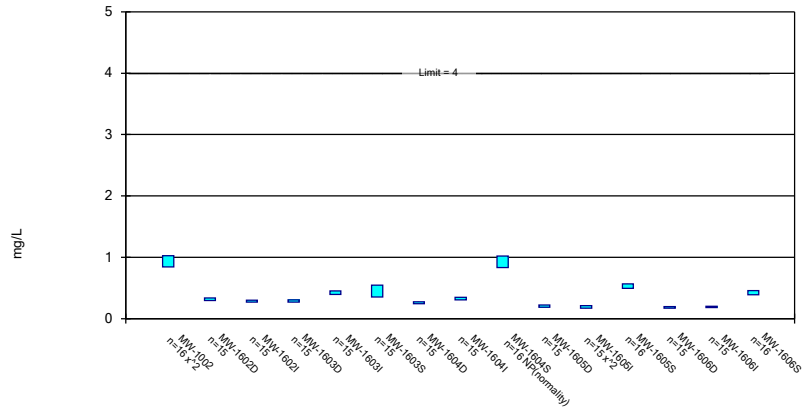
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals -
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

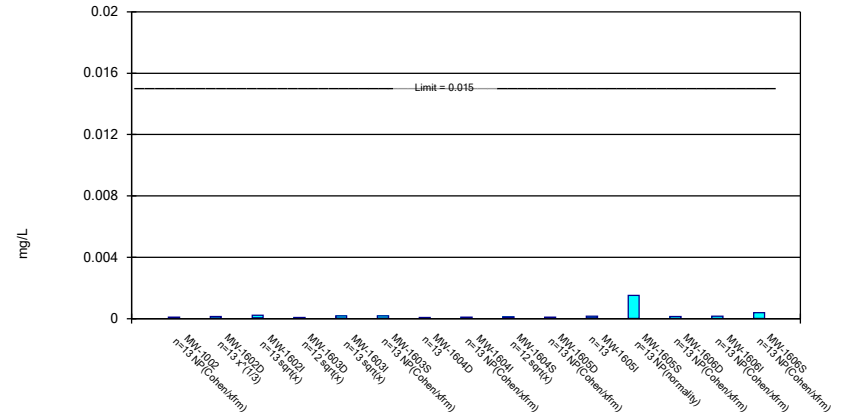
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

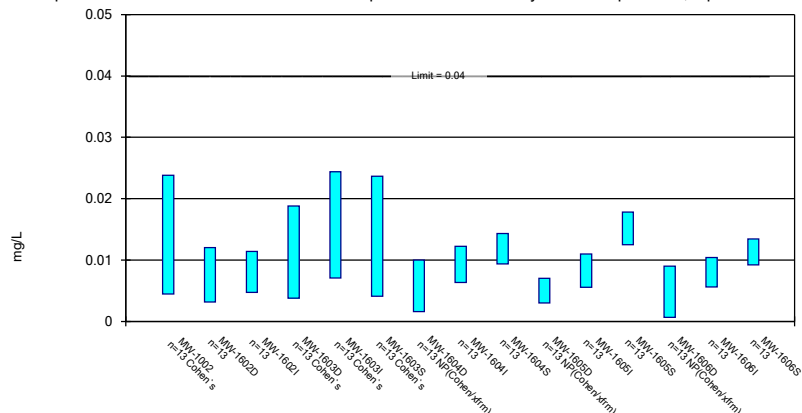
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

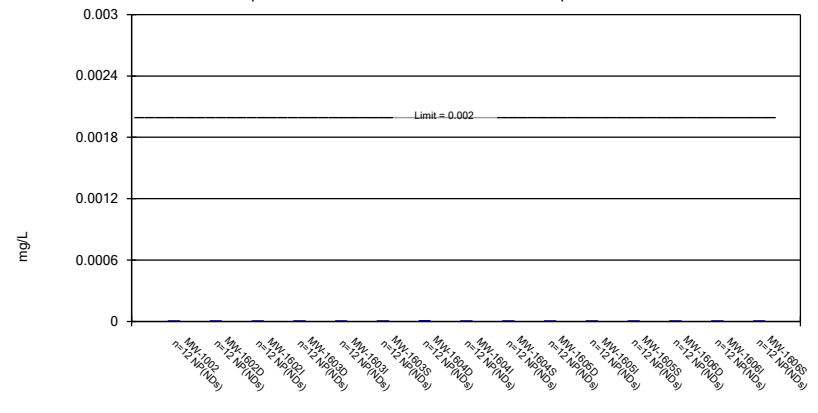
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

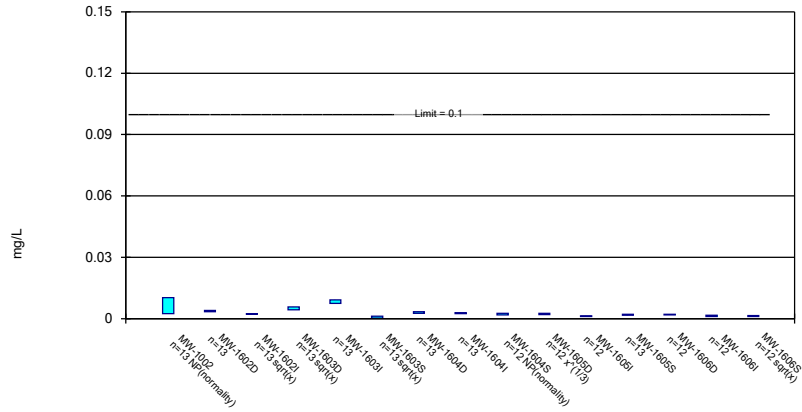
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

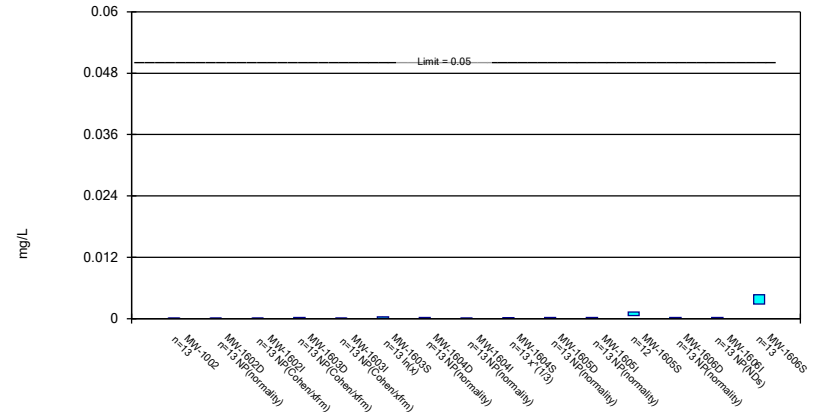
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Parametric and Non-Parametric (NP) Confidence Interval

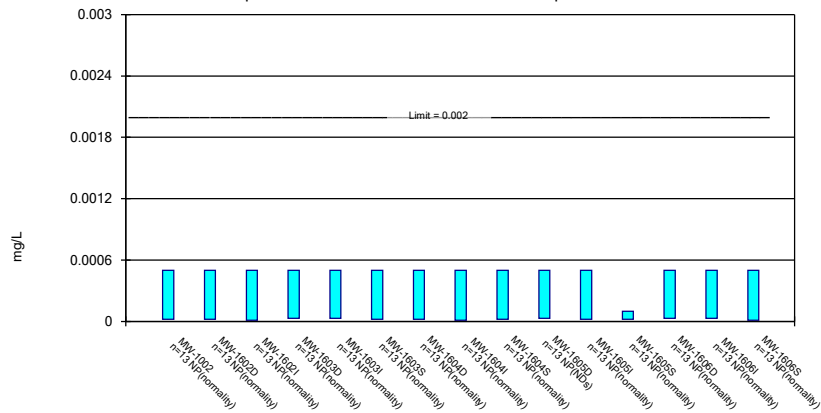
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP

Non-Parametric Confidence Interval

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



Constituent: Thallium, total Analysis Run 12/8/2019 2:27 PM View: Confidence Intervals - App IV
Rockport BAP Client: Geosyntec Data: Rockport_BAP