

**Annual Groundwater Monitoring and Corrective  
Action Report**

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

**January 31, 2023**

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An **AEP** Company

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**Abbreviations:**

ASD - Alternate Source Demonstration

CCR – Coal Combustion Residual

GWPS - Groundwater protection standards

SSI - Statistically Significant Increase

SSL - Statistically Significant Level

## **I Overview**

This *Annual Groundwater Monitoring and Corrective Action Report* (Report) has been prepared to report the status of activities for the preceding year 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 the previous year's groundwater monitoring activities be posted to the operating record no later than January 31, 2023.

In general, the following activities were completed:

- At the start of the current annual reporting period, the BAP was operating under the assessment monitoring program.
- At the end of the current annual reporting period, the BAP was operating under the assessment monitoring program.
- The BAP initiated assessment monitoring on April 15, 2018.
- Data and statistical analysis not available for the previous reporting period indicates that during the November 2021 semi-annual sampling event:
  - The following Appendix III parameters exceeded background concentrations:
    - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
    - Chloride at wells MW-1002, MW-1602D, MW-1604S, and MW-1605S
    - Fluoride at wells MW-1002, MW-1603S, and MW-1604S
    - Sulfate at wells MW-1002, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
    - TDS at wells MW-1602D, MW-1604S, MW-1605I, and MW-1605S
  - There were no exceedances of Appendix IV parameters
- During the May 2022 semi-annual sampling event:
  - The following Appendix III parameters exceeded background concentrations:
    - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
    - Chloride at wells MW-1002, MW-1602D, MW-1604S, and MW-1605S
    - Fluoride at wells MW-1002, MW-1603S, and MW-1604S
    - Sulfate at wells MW-1002, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
    - TDS at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
  - There were no exceedances of Appendix IV parameters

- The November 2022 semi-annual sampling event data are still undergoing statistical analysis.
- Because either there were no Appendix IV SSLs or because an alternate source for the Appendix IV SSL(s) was identified, but no alternative source for the Appendix III SSI(s) was identified, the BAP remained in assessment monitoring.

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 (Attached as **Appendix 1**);
- 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 background, detection monitoring, or assessment monitoring programs (Attached as **Appendix 1**);
- Statistical comparison of monitoring data to determine if there have been significant increase over background concentrations (Attached as **Appendix 2**, where applicable);
- A discussion of whether any alternate source demonstrations were performed, and the conclusions (Attached as **Appendix 3**, where applicable);
- 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 (Notices Attached as **Appendix 4**, where applicable);
- Identification of any monitoring wells that were installed, or decommissioned during the preceding year, along with a statement as to why that happened (Attached as **Appendix 5**, where applicable); and
- 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**

The CCR monitoring wells are listed as follows (S=shallow, I=intermediate, and D=deep):

- Twelve Upgradient Wells: MW-1600(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).



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). A figure that depicts the PE-certified groundwater monitoring network, the monitoring well locations, and their corresponding identification numbers is provided in **Appendix 1**.

### **III. Monitoring Wells Installed or Decommissioned**

There were no new groundwater monitoring wells installed or decommissioned during 2022. The network design, as summarized in the *Groundwater Monitoring Network Design Report* (2019) and as posted at the CCR website for Rockport Plant's Bottom Ash Ponds, did not change. That design report, viewable on the AEP CCR web site, discusses the facility location, the hydrogeological setting, the hydrostratigraphic units, the uppermost aquifer, downgradient monitoring well locations and the upgradient monitoring well locations.

### **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 the establishment of background quality, detection and assessment monitoring. Static water elevation data from each monitoring event also are shown in **Appendix 1**, along with the groundwater velocity calculations, groundwater flow direction and potentiometric maps developed after each sampling event.

The sampling event conducted in February 2022 satisfies the requirement of 257.95(b).

### **V. Groundwater Quality Data Statistical Analysis**

**Appendix 2** contains the statistical analysis reports. Data not available from the previous reporting period indicates that during the second semi-annual sampling event of 2021:

- The following Appendix III parameters exceeded background concentrations:
  - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
  - Chloride at wells MW-1002, MW-1602D, MW-1604S, and MW-1605S
  - Fluoride at wells MW-1002, MW-1603S, and MW-1604S
  - Sulfate at wells MW-1002, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
  - TDS at wells MW-1602D, MW-1604S, MW-1605I, and MW-1605S
- There were no exceedances of Appendix IV parameters
- During the May 2022 semi-annual sampling event:
  - The following Appendix III parameters exceeded background concentrations:
    - Boron at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
    - Chloride at wells MW-1002, MW-1602D, MW-1604S, and MW-1605S
    - Fluoride at wells MW-1002, MW-1603S, and MW-1604S

- Sulfate at wells MW-1002, MW-1603S, MW-1604I, MW-1604S, MW-1605I, and MW-1605S
- TDS at wells MW-1002, MW-1603S, MW-1604S, and MW-1605S
- There were no exceedances of Appendix IV parameters

The statistical analysis of the second semi-annual sampling event will be completed within 90 days of finishing the sampling and analysis, which took place in November 2022.

#### **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 exceedances of Appendix III parameters for neither the second semi-annual event of 2021, nor the first semi-annual event of 2022.

Because either there were no SSLs or because an alternate source for the SSL(s) was identified, but no alternate source for the SSI(s) was identified, the BAP remained in assessment monitoring.

#### **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 2022 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 progressed from detection monitoring to its current status in assessment monitoring in 2018. As required by the CCR assessment monitoring rules in 40 CFR 257.95 (b) and (d)(1), sampling all CCR wells for the required Appendix III and IV parameters was completed in 2022.

**IX. Description of Any Problems Encountered and Actions Taken**

No significant problems were encountered. The low flow sampling effort went smoothly, and the schedule was met to support the annual groundwater report preparation covering the year 2022 groundwater monitoring activities.

**X. A Projection of Key Activities for the Upcoming Year**

Key activities for 2023 include:

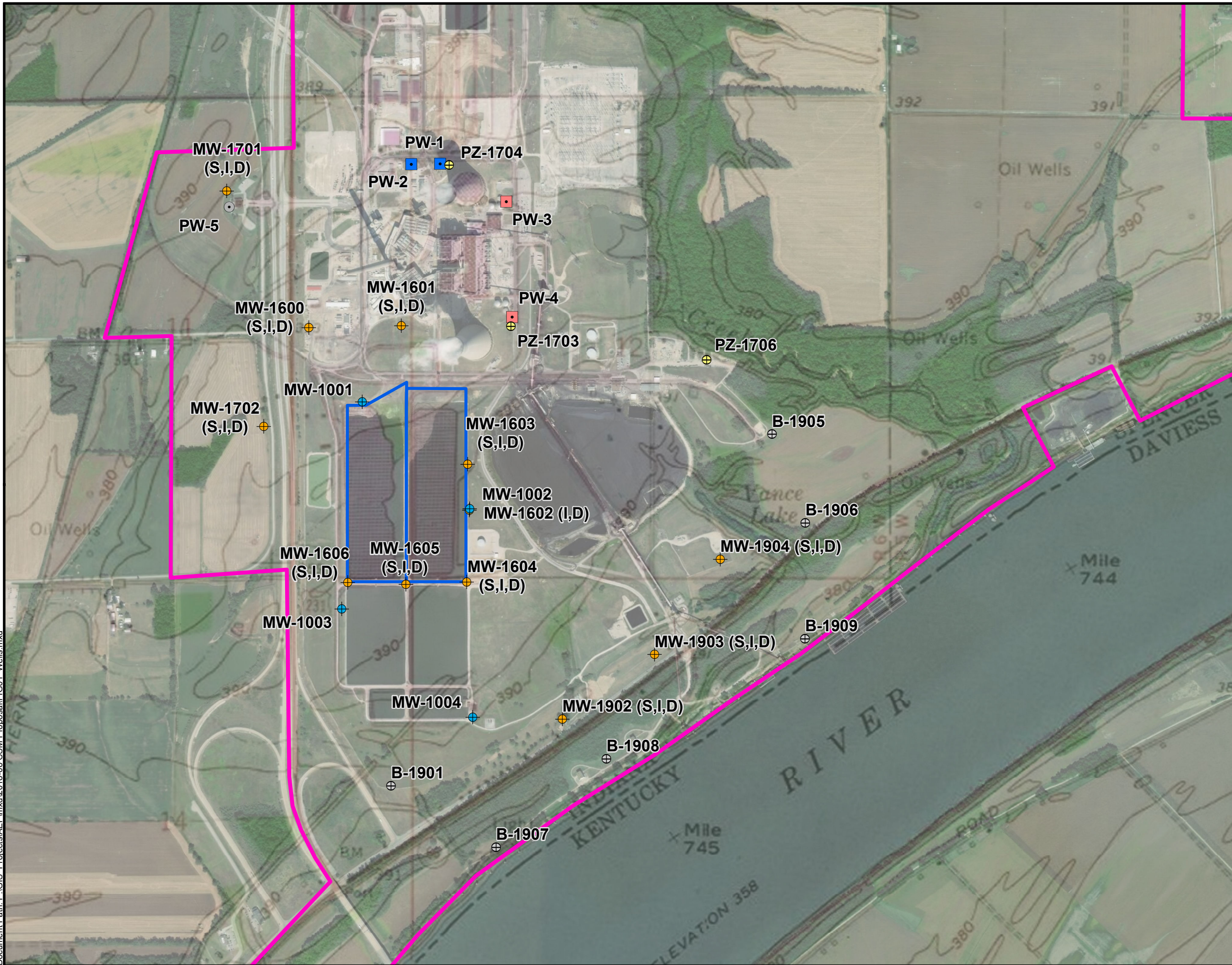
- Complete the statistical analysis of the second semi-annual sampling event that took place in November 2022.
- Conduct the annual groundwater sampling event for all constituents listed in Appendix III and IV as required by 40 CFR 257.95(b).
- Perform statistical analysis on the sampling results for the Appendix III and detected Appendix IV parameters as required by 40 CFR 257.95(d)(1).
- 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 next annual groundwater report.

## **APPENDIX 1 – Groundwater Data Tables and Figures**

Figures and Tables follow, showing the groundwater monitoring network, data collected and the rate and direction of groundwater flow. The dates that the samples were collected, and it also is shown whether the data were collected under background, detection, or assessment monitoring.

## **Groundwater Monitoring Network Figure**





- Legend**
- Piezometer
  - BAP - USWAG Monitoring Well
  - BAP - CCR Monitoring Well
  - Landfill - Monitoring Well
  - Landfill - CCR Monitoring Well
  - Landfill - Augmentation Water Supply Well
  - Landfill - Dust Control Water Supply Well
  - Plant - Potable Water Supply Well
  - Plant - Fire Water Supply Well
  - Groundwater Screening Location (Abandoned)
  - Inactive Water Supply Well
  - Property Boundary
  - Bottom Ash Ponds (BAP)

**Data Sources**  
 Date of Photography: 2016  
 Source of Photography: U.S. Department of Agriculture, National Agriculture Imagery Program (NAIP)

USGS Rockport and Lewisport (IN/KY) Topographic Quadrangle Maps



**WELL LOCATIONS**  
 AEP - ROCKPORT, IN  
 PROJECT NUMBER: 7362182624

SCALE	1" = 1,600'
DATE	2/6/2019
DRAWN BY	TMR
APPROVED BY	ALD

**FIG. 1**



2456 Fortune Drive, Suite 100  
 Lexington, Kentucky 40509  
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## **Groundwater Data Tables**

**Table 1 - Groundwater Data Summary: MW-1002  
Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	149	390
7/18/2016	Background	1.70	32.3	57.8	1.03	7.1	154	385
9/20/2016	Background	1.57	40.1	54.0	0.98	6.8	164	399
11/15/2016	Background	1.67	49.4	53.0	0.87	6.5	178	405
1/9/2017	Background	1.57	55.6	59.0	0.74	6.3	190	440
3/7/2017	Background	1.32	76.3	81.1	0.73	6.5	228	503
5/8/2017	Background	1.04	78.1	75.5	0.73	6.7	215	498
7/17/2017	Background	1.28	50.0	59.9	0.73	6.7	184	430
10/3/2017	Detection	1.63	36.4	54.4	0.80	7.1	166	403
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	165	425
8/15/2018	Assessment	1.88	41.3	57.4	1.02	7.2	182	453
5/24/2019	Assessment	1.61	32.9	55.9	1.13	7.4	169	435
6/27/2019	Assessment	1.82	36.0	57.1	1.10	7.1	173	425
9/12/2019	Assessment	1.78	33.5	54.7	1.03	6.7	178	418
3/11/2020	Assessment	--	--	--	0.84	6.5	--	--
5/20/2020	Assessment	0.778	42.0	35.9	0.85	5.9	97.5	295
11/16/2020	Assessment	1.43	66.7	99.4	0.84	6.2	217	551
2/2/2021	Assessment	1.56	63.3	81.7	0.97	6.8	250	560
5/26/2021	Assessment	1.11	37.3	50.1	1.01	7.1	149	370
11/9/2021	Assessment	1.70	42.2	59.4	0.96	6.8	169	450
2/15/2022	Assessment	1.81	52.2	66.9	0.95	7.4	176	490
5/10/2022	Assessment	1.74	47.4	61.3	0.96	7.4	173	470 L1
10/31/2022	Assessment	2.46	58.4	40.9	0.93	5.6	323	650

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.



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 U1	0.02	0.3	0.830	0.1116	1.05	0.034	0.002	< 0.002 U1	1.92	0.08 J1	0.02 J1
7/18/2016	Background	0.05	0.29	14.2	< 0.005 U1	0.03	0.7	0.931	0.741	1.03	0.026	0.016	< 0.002 U1	2.54	0.1 J1	0.03 J1
9/20/2016	Background	0.04 J1	0.24	18.5	< 0.005 U1	0.03	0.1	0.699	1.377	0.98	0.01 J1	0.004	< 0.002 U1	3.38	0.1 J1	0.02 J1
11/15/2016	Background	0.06	0.24	23.5	0.006 J1	0.15	0.075	0.664	0.686	0.87	0.031	0.010	< 0.002 U1	2.47	0.08 J1	0.04 J1
1/9/2017	Background	0.05 J1	0.25	26.9	< 0.005 U1	0.04	0.078	0.692	1.052	0.74	0.022	0.006	< 0.002 U1	3.16	0.06 J1	0.03 J1
3/7/2017	Background	0.05	0.20	35.6	< 0.005 U1	0.07	0.331	0.568	0.483	0.73	0.163	0.003	< 0.002 U1	2.69	0.1 J1	0.04 J1
5/8/2017	Background	0.05	0.24	26.8	0.020	0.05	0.177	0.526	0.2337	0.73	0.037	0.009	0.005	2.69	0.1	0.050
7/17/2017	Background	0.04 J1	0.21	21.4	< 0.004 U1	0.03	0.107	0.665	3.029	0.73	0.02 J1	0.009	< 0.002 U1	3.05	0.07 J1	0.04 J1
6/5/2018	Assessment	0.07	0.44	12.7	0.004	0.03	0.04	0.768	0.569	1.02	0.031	0.011	< 0.002 U1	6.19	0.06	0.03
8/15/2018	Assessment	0.05 J1	0.28	13.8	< 0.004 U1	0.03	0.281	0.820	--	1.02	0.02 J1	< 0.0002 U1	--	7.86	0.07 J1	0.03 J1
5/24/2019	Assessment	0.05 J1	0.23	13.3	< 0.02 U1	0.03 J1	0.09 J1	0.754	0.1886	1.13	< 0.02 U1	< 0.009 U1	< 0.002 U1	8.67	0.05 J1	< 0.1 U1
6/27/2019	Assessment	0.05 J1	0.24	14.8	< 0.02 U1	0.03 J1	0.07 J1	0.805	0.682	1.10	0.03 J1	< 0.009 U1	< 0.002 U1	10.4	0.08 J1	< 0.1 U1
9/12/2019	Assessment	0.05 J1	0.22	15.8	< 0.02 U1	0.02 J1	0.469	0.635	0.384	1.03	< 0.05 U1	0.00438	< 0.002 U1	10.2	0.06 J1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	0.21	15.9	< 0.02 U1	0.02 J1	< 0.04 U1	0.608	1.9572	0.84	< 0.05 U1	0.00425	< 0.002 U1	8.51	0.1 J1	< 0.1 U1
5/20/2020	Assessment	0.04 J1	0.19	16.0	< 0.02 U1	0.04 J1	0.09 J1	0.342	0.999	0.85	< 0.05 U1	0.00316	< 0.002 U1	9.65	0.07 J1	< 0.1 U1
11/16/2020	Assessment	0.04 J1	0.25	17.9	< 0.02 U1	0.02 J1	0.212	0.480	1.892	0.84	< 0.05 U1	0.00562	< 0.002 U1	4.95	0.09 J1	< 0.1 U1
2/2/2021	Assessment	0.05 J1	0.27	15.9	< 0.02 U1	0.02 J1	0.05 J1	0.533	0.22	0.97	< 0.05 U1	0.00548	< 0.002 U1	6.42	0.07 J1	< 0.1 U1
5/26/2021	Assessment	0.04 J1	0.25	12.4	< 0.007 U1	0.019 J1	0.21	0.308	0.75	1.01	< 0.05 U1	0.00379	< 0.002 U1	5.3	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.04 J1	0.26	12.5	< 0.007 U1	0.020	0.20	0.500	3.01	0.96	< 0.05 U1	0.00502	< 0.002 U1	6.7	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.04 J1	0.27	13.9	< 0.007 U1	0.020	0.33	0.531	0.43	0.95	< 0.05 U1	0.00554	< 0.002 U1	7.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	0.27	14.0	< 0.007 U1	0.019 J1	0.24	0.537	1.25	0.96	< 0.05 U1	0.00538	< 0.002 U1	7.1	< 0.09 U1	< 0.04 U1
10/31/2022	Assessment	0.04 J1	0.23	18.2	< 0.007 U1	0.028	0.16 J1	0.777	0.51	0.93	< 0.05 U1	0.00571	< 0.002 U1	12.6	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	43.9	444
7/19/2016	Background	0.015	74.9	32.2	0.22	7.2	44.9	413
9/19/2016	Background	< 0.002 U1	85.6	30.9	0.20	7.1	38.7	385
11/16/2016	Background	0.024	83.1	30.9	0.17	7.2	35.9	415
1/10/2017	Background	0.014	87.8	31.0	0.22	7.1	42.5	384
3/7/2017	Background	0.036	84.9	31.6	0.19	7.0	39.2	374
5/8/2017	Background	0.037	89.1	32.6	0.21	6.5	38.4	402
7/17/2017	Background	0.038	73.6	31.6	0.17	6.5	40.1	389
10/3/2017	Detection	0.040	78.3	31.5	0.20	7.3	40.8	398
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	39.2	397
8/14/2018	Assessment	0.085	86.6	31.5	0.24	7.1	41.0	400
5/20/2019	Assessment	< 0.02 U1	76.5	31.4	0.21	7.2	43.0	394
6/25/2019	Assessment	0.03 J1	84.2	31.0	0.22	7.1	37.7	407
9/10/2019	Assessment	< 0.02 U1	90.1	31.1	0.23	7.2	41.3	404
3/11/2020	Assessment	--	--	--	0.21	6.9	--	--
5/21/2020	Assessment	< 0.02 U1	91.1	31.0	0.24	7.6	43.3	396
11/12/2020	Assessment	< 0.02 U1	81.5	30.3	0.25	6.6	42.4	398
2/3/2021	Assessment	< 0.02 U1	78.9	30.2	0.25	6.8	41.3	390
5/27/2021	Assessment	0.017 J1	93.2	29.6	0.25	7.6	41.6	400
11/10/2021	Assessment	0.016 J1	79.3	28.7	0.23	6.6	40.0	380
2/16/2022	Assessment	0.019 J1	82.2	30.5	0.23	6.7	42.7	400
5/10/2022	Assessment	0.016 J1	94.0	30.0	0.22	7.0	44.6	390 L1
11/1/2022	Assessment	0.017 J1	77.2	29.4	0.22	6.5	43.3	370

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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 J1	15.4	940	0.006 J1	< 0.004 U1	0.2	0.109	2.148	0.20	0.095	< 0.0002 U1	< 0.002 U1	1.94	< 0.03 U1	0.01 J1
7/19/2016	Background	0.02 J1	17.2	946	0.005 J1	< 0.004 U1	0.2	0.094	1.615	0.22	0.021	0.020	< 0.002 U1	2.19	0.05 J1	0.054
9/19/2016	Background	0.01 J1	15.1	910	< 0.005 U1	< 0.004 U1	0.9	0.071	1.636	0.20	0.020	0.011	< 0.002 U1	1.75	< 0.03 U1	0.01 J1
11/16/2016	Background	< 0.01 U1	15.8	997	< 0.005 U1	< 0.004 U1	0.128	0.085	1.402	0.17	0.064	0.008	< 0.002 U1	1.79	0.04 J1	< 0.01 U1
1/10/2017	Background	< 0.01 U1	15.2	877	< 0.005 U1	< 0.004 U1	0.115	0.100	2.265	0.22	0.053	0.009	< 0.002 U1	1.65	< 0.03 U1	< 0.01 U1
3/7/2017	Background	< 0.01 U1	16.2	986	< 0.005 U1	< 0.004 U1	0.427	0.081	1.322	0.19	0.038	0.008	< 0.002 U1	1.78	0.05 J1	< 0.01 U1
5/8/2017	Background	0.05	15.9	914	0.020	0.02	0.170	0.096	1.104	0.21	0.073	0.006	0.005	1.64	0.1	0.050
7/17/2017	Background	0.03 J1	15.0	817	0.004 J1	< 0.005 U1	0.180	0.112	2.223	0.17	0.076	0.009	< 0.002 U1	1.56	0.04 J1	< 0.01 U1
6/4/2018	Assessment	0.02 J1	13.8	766	0.01 J1	0.02 J1	0.112	0.297	0.833	0.23	0.102	0.009	< 0.002 U1	1.62	< 0.03 U1	0.02 J1
8/14/2018	Assessment	< 0.01 U1	15.1	840	< 0.004 U1	< 0.005 U1	0.073	0.079	2.858	0.24	0.023	0.004	--	1.62	< 0.03 U1	< 0.01 U1
5/20/2019	Assessment	< 0.02 U1	20.3	873	< 0.02 U1	0.08	0.274	0.176	1.948	0.21	0.238	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	16.6	867	< 0.02 U1	< 0.01 U1	0.1 J1	0.146	1.121	0.22	0.135	0.01 J1	< 0.002 U1	2 J1	0.05 J1	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	16.1	884	< 0.02 U1	< 0.01 U1	0.2 J1	0.132	1.621	0.23	0.1 J1	0.00627	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	15.3	880	< 0.02 U1	< 0.01 U1	0.2 J1	0.081	2.377	0.21	< 0.05 U1	0.00573	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	25.3	882	< 0.02 U1	< 0.01 U1	0.1 J1	0.090	1.462	0.24	0.06 J1	0.00535	< 0.002 U1	2 J1	0.06 J1	< 0.1 U1
11/12/2020	Assessment	< 0.02 U1	15.8	828	< 0.02 U1	< 0.01 U1	0.2 J1	0.072	1.593	0.25	< 0.05 U1	0.00570	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	16.0	869	< 0.02 U1	< 0.01 U1	0.264	0.070	2.96	0.25	< 0.05 U1	0.00548	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/27/2021	Assessment	0.05 J1	19.2	851	0.067	0.043	2.05	0.756	1.18	0.25	1.34	0.00669	< 0.002 U1	1.9	0.17 J1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	17.8	788	< 0.007 U1	< 0.004 U1	0.27	0.092	1.21	0.23	0.07 J1	0.00545	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	16.2	843	< 0.007 U1	< 0.004 U1	0.38	0.062	1.40	0.23	< 0.05 U1	0.00528	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	18.7	889	< 0.007 U1	0.028	0.33	0.096	1.32	0.22	0.06 J1	0.00509	< 0.002 U1	1.8	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	16.0	782	< 0.007 U1	< 0.004 U1	0.24	0.044	1.82	0.22	< 0.05 U1	0.00543	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-16001**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	--	52.2	442
7/19/2016	Background	0.019	76.0	26.7	0.23	7.3	55.3	423
9/19/2016	Background	0.004 J1	77.6	24.9	0.21	7.2	48.4	404
11/16/2016	Background	0.031	76.0	24.5	0.17	7.2	44.5	408
1/10/2017	Background	0.016	76.5	23.7	0.19	7.1	45.8	394
3/7/2017	Background	0.049	75.5	26.4	0.20	7.2	49.2	392
5/8/2017	Background	0.033	80.2	25.0	0.22	6.8	48.5	406
7/17/2017	Background	0.046	71.5	24.4	0.17	9.3	48.0	398
10/3/2017	Detection	0.051	71.1	24.4	0.21	7.3	50.7	400
12/12/2017	Detection	--	--	24.7	0.21	--	52.4	--
6/4/2018	Assessment	0.046	72.8	25.4	0.24	7.5	50.0	396
8/14/2018	Assessment	0.057	78.6	25.6	0.25	7.1	50.3	426
5/21/2019	Assessment	0.03 J1	71.0	25.4	0.22	7.3	52.8	411
6/25/2019	Assessment	0.02 J1	76.0	25.0	0.23	7.1	46.7	401
9/10/2019	Assessment	0.02 J1	81.1	25.6	0.24	7.2	50.8	404
3/11/2020	Assessment	--	--	--	0.22	6.9	--	--
5/21/2020	Assessment	0.02 J1	82.5	25.7	0.25	7.1	51.8	406
11/12/2020	Assessment	< 0.02 U1	72.7	24.6	0.26	6.7	49.9	392
2/3/2021	Assessment	< 0.02 U1	72.9	25.1	0.26	6.7	49.8	397
5/27/2021	Assessment	0.04 J1	73.2	25.4	0.26	7.7	50.4	410
11/10/2021	Assessment	0.019 J1	70.0	25.7	0.24	7.2	49.0	380
2/17/2022	Assessment	0.019 J1	78.6	26.6	0.24	7.0	52.9	420 P2
5/10/2022	Assessment	0.021 J1	88.3 M1, P3	27.2	0.23	6.8	54.6	410 L1
11/1/2022	Assessment	0.021 J1	72.9	25.8	0.24	6.3	52.2	410

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

Table 1 - Groundwater Data Summary: MW-1600I

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 J1	15.9	832	< 0.005 U1	0.005 J1	0.4	1.27	7.25	0.23	0.107	0.003	< 0.002 U1	1.68	< 0.03 U1	0.02 J1
7/19/2016	Background	0.03 J1	17.9	805	< 0.005 U1	< 0.004 U1	0.3	1.38	1.902	0.23	0.099	0.010	< 0.002 U1	1.83	0.03 J1	< 0.01 U1
9/19/2016	Background	0.03 J1	16.0	778	< 0.005 U1	0.01 J1	0.2	1.13	1.55	0.21	0.037	0.010	< 0.002 U1	1.89	0.06 J1	0.065
11/16/2016	Background	0.03 J1	16.3	801	< 0.005 U1	0.01 J1	0.081	1.14	2.47	0.17	0.01 J1	0.013	< 0.002 U1	1.63	< 0.03 U1	0.02 J1
1/10/2017	Background	0.02 J1	16.7	736	< 0.005 U1	< 0.004 U1	0.158	1.20	0.9137	0.19	0.006 J1	0.005	< 0.002 U1	1.64	< 0.03 U1	0.02 J1
3/7/2017	Background	0.02 J1	16.8	696	< 0.005 U1	0.02 J1	0.270	1.13	1.624	0.20	0.054	0.005	< 0.002 U1	1.67	0.04 J1	0.03 J1
5/8/2017	Background	0.05	17.0	762	0.020	0.02	0.095	1.26	1.75	0.22	0.020	0.011	0.005	1.54	0.1	0.050
7/17/2017	Background	0.02 J1	16.8	710	< 0.004 U1	< 0.005 U1	0.397	1.27	2.009	0.17	0.108	0.010	< 0.002 U1	1.53	< 0.03 U1	0.02 J1
6/4/2018	Assessment	0.04 J1	20.6	820	< 0.004 U1	< 0.005 U1	0.061	1.48	2.59	0.24	0.02 J1	0.012	< 0.002 U1	1.98	< 0.03 U1	0.03 J1
8/14/2018	Assessment	0.02 J1	17.5	726	< 0.004 U1	< 0.005 U1	0.087	1.29	1.797	0.25	0.025	0.007	--	1.64	< 0.03 U1	0.03 J1
5/21/2019	Assessment	< 0.02 U1	17.7	737	< 0.02 U1	< 0.01 U1	0.1 J1	1.24	1.988	0.22	< 0.02 U1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	17.2	740	< 0.02 U1	< 0.01 U1	< 0.04 U1	1.23	2.301	0.23	< 0.02 U1	0.009 J1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	16.9	722	< 0.02 U1	< 0.01 U1	0.1 J1	1.29	1.22	0.24	< 0.05 U1	0.00720	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	16.8	715	< 0.02 U1	0.01 J1	0.2 J1	1.22	2.22	0.22	0.1 J1	0.00677	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	0.03 J1	17.9	707	< 0.02 U1	0.08	0.205	1.32	2.9	0.25	0.201	0.00643	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
11/12/2020	Assessment	< 0.02 U1	18.9	698	< 0.02 U1	< 0.01 U1	0.216	1.26	1.734	0.26	< 0.05 U1	0.00656	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	18.4	689	< 0.02 U1	< 0.01 U1	0.1 J1	1.20	2.599	0.26	< 0.05 U1	0.00626	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/27/2021	Assessment	0.08 J1	24.8	755	0.031 J1	0.075	1.21	2.32	1.81	0.26	1.3	0.00672	< 0.002 U1	2.2	0.15 J1	0.05 J1
11/10/2021	Assessment	0.02 J1	19.6	658	< 0.007 U1	0.005 J1	0.23	1.14	2.41	0.24	0.08 J1	0.00643	< 0.002 U1	1.5	< 0.09 U1	< 0.04 U1
2/17/2022	Assessment	0.02 J1	20.2	770	< 0.007 U1	0.013 J1	0.11 J1	1.17	3.18	0.24	0.07 J1	0.00645	< 0.002 U1	1.6	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.02 J1	19.5	729 M1, P3	< 0.007 U1	< 0.004 U1	0.25	1.22	2.13	0.23	< 0.05 U1	0.00603	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	0.04 J1	22.0	679	< 0.007 U1	0.008 J1	0.33	1.25	1.40	0.24	0.20	0.00690	< 0.002 U1	1.6	< 0.09 U1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

**Table 1 - Groundwater Data Summary: MW-1600S**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	75.8	491
7/19/2016	Background	0.045	67.0	29.9	0.34	6.8	76.0	448
9/19/2016	Background	0.026	63.2	21.3	0.32	6.4	60.8	408
11/16/2016	Background	0.061	63.5	27.1	0.28	6.8	54.4	426
1/10/2017	Background	0.034	68.5	23.7	0.32	6.5	53.1	433
3/7/2017	Background	0.129	63.2	25.0	0.37	6.8	58.5	402
5/8/2017	Background	0.039	69.0	26.0	0.40	6.6	54.6	427
7/17/2017	Background	0.068	58.0	18.0	0.36	9.5	41.0	393
10/3/2017	Detection	0.049	61.4	27.8	0.37	6.8	54.9	430
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	41.3	412
8/15/2018	Assessment	0.088	63.7	44.9	0.51	7.0	42.3	416
5/21/2019	Assessment	0.05 J1	57.4	27.9	0.44	6.9	57.4	423
6/25/2019	Assessment	0.05 J1	62.7	21.4	0.47	6.8	40.9	398
9/10/2019	Assessment	0.04 J1	64.8	23.9	0.46	6.9	45.0	383
3/11/2020	Assessment	--	--	--	0.42	6.5	--	--
5/21/2020	Assessment	0.04 J1	66.6	30.7	0.45	7.2	53.8	412
11/12/2020	Assessment	0.04 J1	59.6	24.6	0.40	6.5	60.4	397
2/3/2021	Assessment	0.04 J1	60.3	26.7	0.44	6.1	52.0	379
5/27/2021	Assessment	0.041 J1	70.2	32.6	0.51	7.3	40.4	420
11/10/2021	Assessment	0.038 J1	56.4	43.0	0.42	6.3	42.7	380
2/17/2022	Assessment	0.038 J1	61.7	35.8	0.46	6.4	43.3	380 P2
5/10/2022	Assessment	0.025 J1	63.5	27.0	0.55	6.7	39.6	380 L1
11/1/2022	Assessment	0.043 J1	57.2	35.7	0.37	6.7	53.3	380

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.

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 J1	0.67	36.1	< 0.005 U1	0.02 J1	0.2	0.243	0.149	0.33	0.118	0.003	0.002 J1	0.61	0.5	< 0.01 U1
7/19/2016	Background	0.02 J1	0.67	37.9	< 0.005 U1	0.02 J1	0.4	0.099	0.52826	0.34	0.048	0.038	< 0.002 U1	0.56	0.3	0.01 J1
9/19/2016	Background	0.02 J1	0.58	30.9	< 0.005 U1	0.01 J1	0.2	0.129	0.0715	0.32	0.087	0.019	< 0.002 U1	0.56	0.3	0.02 J1
11/16/2016	Background	0.04 J1	0.75	32.9	0.008 J1	0.03	0.284	0.690	0.505	0.28	0.360	0.024	< 0.002 U1	0.64	0.4	0.04 J1
1/10/2017	Background	0.02 J1	0.65	29.3	0.006 J1	0.01 J1	0.892	0.306	1.8182	0.32	0.151	0.016	< 0.002 U1	0.60	0.4	0.01 J1
3/7/2017	Background	0.03 J1	0.70	30.5	0.008 J1	0.02 J1	0.459	0.587	1.697	0.37	0.319	0.013	< 0.002 U1	0.66	0.5	0.01 J1
5/8/2017	Background	0.05	0.65	26.9	0.020	0.02	0.163	0.398	0.305	0.40	0.195	0.019	0.005	0.56	0.5	0.050
7/17/2017	Background	0.02 J1	0.61	26.1	0.006 J1	0.02 J1	0.302	0.441	0.117	0.36	0.233	0.019	< 0.002 U1	0.74	0.5	0.02 J1
6/4/2018	Assessment	0.03 J1	0.49	22.7	0.005 J1	0.01 J1	0.109	0.128	1.573	0.56	0.069	0.019	< 0.002 U1	0.72	0.5	0.02 J1
8/15/2018	Assessment	0.02 J1	0.45	23.7	< 0.004 U1	0.01 J1	0.277	0.105	0.646	0.51	0.053	0.014	--	0.65	0.4	0.02 J1
5/21/2019	Assessment	0.03 J1	0.50	26.7	< 0.02 U1	0.01 J1	1.34	0.127	0.6234	0.44	0.07 J1	0.01 J1	< 0.002 U1	0.7 J1	0.6	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	0.48	22.0	< 0.02 U1	0.01 J1	0.08 J1	0.193	0.528	0.47	0.09 J1	0.03 J1	< 0.002 U1	0.5 J1	0.4	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	0.46	21.9	< 0.02 U1	0.01 J1	0.2 J1	0.149	0.2093	0.46	0.08 J1	0.0126	< 0.002 U1	0.6 J1	0.5	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	0.40	22.1	< 0.02 U1	< 0.01 U1	0.1 J1	0.04 J1	0.2165	0.42	< 0.05 U1	0.0126	< 0.002 U1	0.5 J1	0.4	< 0.1 U1
5/21/2020	Assessment	0.02 J1	0.40	23.2	< 0.02 U1	0.09	0.2 J1	0.05 J1	0.662	0.45	< 0.05 U1	0.0135	< 0.002 U1	0.4 J1	0.4	< 0.1 U1
11/12/2020	Assessment	0.04 J1	0.40	23.2	< 0.02 U1	0.01 J1	0.342	0.03 J1	0.9926	0.40	< 0.05 U1	0.0144	< 0.002 U1	< 0.4 U1	0.7	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	0.41	22.9	< 0.02 U1	< 0.01 U1	0.319	0.05 J1	1.11	0.44	< 0.05 U1	0.0130	< 0.002 U1	0.5 J1	0.3	< 0.1 U1
5/27/2021	Assessment	0.15	4.39	57.9	0.106	0.191	1.92	9.95	0.88	0.51	4.97	0.0111	0.004 J1	0.9	0.73	0.05 J1
11/10/2021	Assessment	0.03 J1	0.66	26.8	0.014 J1	0.041	0.51	1.12	0.45	0.42	0.63	0.0123	< 0.002 U1	0.2 J1	0.41 J1	< 0.04 U1
2/17/2022	Assessment	< 0.02 U1	0.39	21.0	< 0.007 U1	0.011 J1	0.32	0.074	1.27	0.46	< 0.05 U1	0.0116	< 0.002 U1	0.6	0.51	< 0.04 U1
5/10/2022	Assessment	0.02 J1	0.43	19.5	< 0.007 U1	0.011 J1	0.28	0.122	2.69	0.55	0.06 J1	0.0106	< 0.002 U1	0.7	0.63	< 0.04 U1
11/1/2022	Assessment	0.03 J1	0.35	22.9	< 0.007 U1	0.014 J1	0.26	0.030	0.72	0.37	< 0.05 U1	0.0154	< 0.002 U1	0.4 J1	1.13	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	21.9	460
7/19/2016	Background	0.035	89.0	18.9	0.22	7.4	18.9	412
9/20/2016	Background	0.026	87.0	22.6	0.17	7.2	20.4	410
11/16/2016	Background	0.035	89.5	21.8	0.15	7.4	18.0	413
1/10/2017	Background	0.029	90.7	19.5	0.19	6.8	20.3	407
3/7/2017	Background	0.055	85.2	28.7	0.17	7.1	25.4	392
5/9/2017	Background	0.038	90.8	22.5	0.17	6.7	21.3	399
7/17/2017	Background	0.090	77.7	21.3	0.17	6.8	21.4	393
10/4/2017	Detection	0.044	86.8	17.9	0.16	7.3	18.8	390
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	25.0	393
8/15/2018	Assessment	0.122	86.5	19.4	0.17	7.3	19.6	418
5/24/2019	Assessment	0.03 J1	85.4	23.6	0.19	7.1	24.9	414
6/26/2019	Assessment	0.04 J1	85.9	18.7	0.16	7.2	22.9	409
9/9/2019	Assessment	0.03 J1	84.4	19.9	0.18	7.2	18.2	404
3/11/2020	Assessment	--	--	--	0.17	6.9	--	--
5/21/2020	Assessment	0.02 J1	88.5	32.4	0.20	7.1	41.3	409
11/16/2020	Assessment	0.03 J1	85.0	18.6	0.18	6.2	19.1	409
2/3/2021	Assessment	0.03 J1	90.6	19.4	0.20	7.0	20.0	396
5/26/2021	Assessment	0.029 J1	87.6	18.9	0.20	9.4	18.9	410
11/10/2021	Assessment	0.029 J1	86.3	19.1	0.18	6.6	17.4	390
2/16/2022	Assessment	0.028 J1	86.9	20.0	0.18	6.7	21.3	430
5/10/2022	Assessment	0.027 J1	101	23.2	0.17	6.8	25.7	410 L1
11/1/2022	Assessment	0.031 J1	85.5	18.8	0.18	6.8	17.8	400

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.



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 J1	6.04	491	0.024	0.12	0.8	1.36	1.116	0.22	1.05	0.003	< 0.002 U1	2.54	0.1	0.01 J1
7/19/2016	Background	0.02 J1	8.20	540	< 0.005 U1	0.01 J1	0.4	0.502	2.248	0.22	0.031	0.005	< 0.002 U1	3.96	0.07 J1	0.055
9/20/2016	Background	0.01 J1	8.59	602	< 0.005 U1	< 0.004 U1	0.2	0.224	1.732	0.17	0.01 J1	< 0.0002 U1	< 0.002 U1	3.08	< 0.03 U1	< 0.01 U1
11/16/2016	Background	0.02 J1	9.20	616	< 0.005 U1	0.01 J1	0.089	0.174	0.946	0.15	0.022	0.015	< 0.002 U1	3.14	< 0.03 U1	0.04 J1
1/10/2017	Background	< 0.01 U1	8.95	527	< 0.005 U1	< 0.004 U1	0.293	0.197	1.929	0.19	0.006 J1	0.004	< 0.002 U1	3.10	< 0.03 U1	< 0.01 U1
3/7/2017	Background	< 0.01 U1	9.32	582	< 0.005 U1	< 0.004 U1	0.417	0.148	0.868	0.17	0.021	0.004	< 0.002 U1	2.66	< 0.03 U1	< 0.01 U1
5/9/2017	Background	0.05	9.47	583	0.020	0.02	0.121	0.152	0.983	0.17	0.026	0.008	0.005	2.84	0.1	0.050
7/17/2017	Background	< 0.01 U1	9.38	532	< 0.004 U1	0.006 J1	0.129	0.103	3.139	0.17	0.031	0.006	< 0.002 U1	2.67	< 0.03 U1	< 0.01 U1
6/5/2018	Assessment	0.03 J1	11.4	552	< 0.004 U1	< 0.005 U1	0.055	0.149	2.095	0.19	0.022	0.007	< 0.002 U1	3.34	< 0.03 U1	< 0.01 U1
8/15/2018	Assessment	0.02 J1	10.3	540	< 0.004 U1	0.01 J1	0.387	0.120	--	0.17	0.084	< 0.0002 U1	--	3.11	< 0.03 U1	0.02 J1
5/24/2019	Assessment	< 0.02 U1	10.3	638	< 0.02 U1	< 0.01 U1	0.06 J1	0.090	0.977	0.19	< 0.02 U1	0.01 J1	< 0.002 U1	2.63	0.03 J1	< 0.1 U1
6/26/2019	Assessment	< 0.02 U1	9.80	542	< 0.02 U1	< 0.01 U1	0.07 J1	0.075	0.986	0.16	0.02 J1	0.02 J1	< 0.002 U1	2.94	< 0.03 U1	< 0.1 U1
9/9/2019	Assessment	< 0.02 U1	11.0	575	< 0.02 U1	< 0.01 U1	0.08 J1	0.054	0.702	0.18	< 0.05 U1	0.00170	< 0.002 U1	3.15	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	10.7	575	< 0.02 U1	< 0.01 U1	0.1 J1	0.059	0.789	0.17	< 0.05 U1	0.00170	< 0.002 U1	2.77	0.04 J1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	10.9	670	< 0.02 U1	0.05 J1	0.1 J1	0.077	1.672	0.20	< 0.05 U1	0.00265	< 0.002 U1	2.12	< 0.03 U1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	11.0	524	< 0.02 U1	< 0.01 U1	0.2 J1	0.05 J1	1.489	0.18	< 0.05 U1	0.00163	< 0.002 U1	2.89	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	12.4	567	< 0.02 U1	0.01 J1	0.241	0.052	2.714	0.20	< 0.05 U1	0.00147	< 0.002 U1	3.23	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.09 J1	11.4	536	< 0.007 U1	0.015 J1	0.13 J1	0.05	1.41	0.20	< 0.05 U1	0.0014	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	11.5	509	< 0.007 U1	< 0.004 U1	0.21	0.051	0.77	0.18	< 0.05 U1	0.00133	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	11.3	522	< 0.007 U1	0.007 J1	0.16 J1	0.054	1.66	0.18	< 0.05 U1	0.00136	< 0.002 U1	3.0	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.02 J1	11.5	594	< 0.007 U1	0.025	0.37	0.102	1.77	0.17	0.06 J1	0.00156	< 0.002 U1	2.9	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	11.5	515	< 0.007 U1	0.004 J1	0.21	0.033	1.28	0.18	< 0.05 U1	0.00129	< 0.002 U1	3.2	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-1601I**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	54.0	419
7/19/2016	Background	0.023	84.1	33.3	0.25	7.2	54.0	430
9/20/2016	Background	0.043	85.2	32.3	0.22	7.1	49.1	432
11/16/2016	Background	0.026	91.6	31.7	0.19	7.2	46.7	434
1/10/2017	Background	0.018	92.6	31.3	0.19	6.7	47.7	429
3/7/2017	Background	0.029	84.0	32.5	0.22	7.1	48.5	427
5/9/2017	Background	0.079	90.0	33.1	0.21	6.8	49.1	422
7/17/2017	Background	0.039	82.0	32.0	0.19	9.5	49.9	418
10/4/2017	Detection	0.088	77.5	31.6	0.20	6.8	51.8	428
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	50	424
8/15/2018	Assessment	0.054	91.7	31.3	0.25	7.3	49.9	429
6/26/2019	Assessment	0.03 J1	85.0	31.2	0.21	7.2	50.8	439
9/9/2019	Assessment	0.02 J1	85.1	30.8	0.22	7.1	42.7	426
3/11/2020	Assessment	--	--	--	0.23	6.9	--	--
5/21/2020	Assessment	0.02 J1	87.8	31.5	0.26	6.8	52.1	435
11/16/2020	Assessment	0.02 J1	80.2	29.8	0.24	6.2	49.5	418
2/3/2021	Assessment	0.02 J1	85.7	29.8	0.26	6.8	50.4	414
5/26/2021	Assessment	0.023 J1	95.8	30.0	0.27	9.4	50.2	420
11/10/2021	Assessment	0.025 J1	85.8	29.4	0.25	6.6	48.3	420
2/16/2022	Assessment	0.023 J1	86.6	29.9	0.24	6.6	51.0	430
5/10/2022	Assessment	0.022 J1	94.9	31.0	0.24	6.7	51.5	420 L1
11/1/2022	Assessment	0.025 J1	81.1	29.8	0.24	7.0	49.9	420

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

Table 1 - Groundwater Data Summary: MW-1601I

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 J1	11.4	612	< 0.005 U1	< 0.004 U1	0.1	1.84	1.432	0.21	0.042	0.003	< 0.002 U1	2.80	< 0.03 U1	< 0.01 U1
7/19/2016	Background	0.02 J1	14.6	620	< 0.005 U1	< 0.004 U1	0.9	1.98	1.036	0.25	0.045	0.004	< 0.002 U1	2.81	< 0.03 U1	< 0.01 U1
9/20/2016	Background	0.02 J1	14.9	681	< 0.005 U1	< 0.004 U1	0.2	1.68	2.329	0.22	0.02 J1	0.008	< 0.002 U1	2.53	< 0.03 U1	0.01 J1
11/16/2016	Background	0.02 J1	16.2	689	< 0.005 U1	0.007 J1	0.110	1.68	1.451	0.19	0.030	0.002	< 0.002 U1	2.36	< 0.03 U1	0.02 J1
1/10/2017	Background	0.01 J1	16.2	605	< 0.005 U1	< 0.004 U1	0.387	1.58	0.993	0.19	0.02 J1	0.007	< 0.002 U1	2.24	< 0.03 U1	0.02 J1
3/7/2017	Background	0.03 J1	16.9	650	< 0.005 U1	< 0.004 U1	0.267	1.59	0.986	0.22	0.070	0.010	< 0.002 U1	2.74	0.06 J1	0.03 J1
5/9/2017	Background	0.05	17.9	634	0.020	0.02	0.156	1.69	1.064	0.21	0.052	0.014	0.005	2.23	0.1	0.050
7/17/2017	Background	0.02 J1	18.0	613	< 0.004 U1	< 0.005 U1	0.160	1.74	1.276	0.19	0.042	0.011	< 0.002 U1	2.13	< 0.03 U1	0.02 J1
6/5/2018	Assessment	0.02 J1	18.6	631	0.008 J1	0.01 J1	0.21	1.73	1.538	0.24	0.201	0.013	< 0.002 U1	2.48	0.05 J1	0.04 J1
8/15/2018	Assessment	0.02 J1	19.1	626	< 0.004 U1	0.009 J1	0.074	1.63	2.274	0.25	0.067	0.009	--	2.21	< 0.03 U1	0.02 J1
6/26/2019	Assessment	< 0.02 U1	18.0	619	< 0.02 U1	< 0.01 U1	0.06 J1	1.50	1.862	0.21	0.04 J1	0.02 J1	< 0.002 U1	2.28	< 0.03 U1	< 0.1 U1
9/9/2019	Assessment	0.04 J1	39.5	670	< 0.02 U1	0.07	0.250	1.63	1.522	0.22	0.251	0.00672	< 0.002 U1	2.26	0.04 J1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	17.4	621	< 0.02 U1	< 0.01 U1	0.1 J1	1.23	1.202	0.23	< 0.05 U1	0.00646	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	17.2	608	< 0.02 U1	< 0.01 U1	0.1 J1	1.26	0.90	0.26	< 0.05 U1	0.00621	< 0.002 U1	2.10	< 0.03 U1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	17.8	586	< 0.02 U1	< 0.01 U1	0.2 J1	1.22	2.329	0.24	< 0.05 U1	0.00688	< 0.002 U1	2.02	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	19.8	634	< 0.02 U1	< 0.01 U1	0.207	1.33	1.949	0.26	0.09 J1	0.00616	< 0.002 U1	2.24	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	18.3	589 M1, P3	< 0.007 U1	0.039	0.05 J1	1.21	1.50	0.27	< 0.05 U1	0.00624	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	19.0	625	< 0.007 U1	< 0.004 U1	0.22	1.19	2.11	0.25	< 0.05 U1	0.00632	< 0.002 U1	2.2	< 0.09 U1	0.04 J1
2/16/2022	Assessment	< 0.02 U1	19.1	643	< 0.007 U1	< 0.004 U1	0.40	1.30	1.49	0.24	< 0.05 U1	0.00627	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	19.5	627	< 0.007 U1	0.011 J1	0.24	1.24	1.97	0.24	< 0.05 U1	0.00590	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	18.5	593	< 0.007 U1	< 0.004 U1	0.25	1.19	1.16	0.24	< 0.05 U1	0.00682	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	39.2	440
7/19/2016	Background	0.106	71.8	46.4	0.36	7.2	40.1	415
9/20/2016	Background	0.094	74.2	43.5	0.33	7.2	37.6	442
11/16/2016	Background	0.100	78.2	42.3	0.26	7.2	36.4	442
1/10/2017	Background	0.113	78.5	42.0	0.28	6.8	35.9	424
3/7/2017	Background	0.098	79.2	41.1	0.30	7.2	42.5	413
5/8/2017	Background	0.092	86.7	41.9	0.31	6.8	44.0	389
7/17/2017	Background	0.077	76.8	41.7	0.25	6.6	40.5	443
10/4/2017	Detection	0.113	73.5	40.9	0.29	7.3	41.6	441
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	26.5	366
8/15/2018	Assessment	0.208	70.8	33.7	0.42	7.2	31.3	374
5/24/2019	Assessment	0.06 J1	77.2	38.5	0.36	7.2	41.8	451
6/25/2019	Assessment	0.07 J1	75.9	35.3	0.31	7.3	51.4	456
9/9/2019	Assessment	0.068	79.6	37.6	0.31	7.2	52.9	445
3/11/2020	Assessment	--	--	--	0.34	7.1	--	--
5/21/2020	Assessment	0.076	82.3	40.6	0.37	7.1	58.3	462
11/16/2020	Assessment	0.092	74.0	40.1	0.35	6.4	53.0	432
2/3/2021	Assessment	0.125	74.0	39.7	0.40	7.1	60.6	432
5/26/2021	Assessment	0.095	77.7	37.6	0.43	9.4	57.2	400
11/10/2021	Assessment	0.113	68.6	36.7	0.42	6.9	60.3	400
2/16/2022	Assessment	0.121	64.3	33.1	0.42	6.9	55.0	380
5/10/2022	Assessment	0.109	66.7	36.1	0.40	7.0	54.3	380 L1
11/1/2022	Assessment	0.140	68.3	33.7	0.38	7.1	62.2	390

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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 J1	1.90	49.4	0.006 J1	0.01 J1	0.2	0.957	0.788	0.34	0.220	< 0.0002 U1	< 0.002 U1	2.17	1.3	0.05 J1
7/19/2016	Background	0.02 J1	2.12	47.7	< 0.005 U1	0.007 J1	0.6	0.478	1.26	0.36	0.114	0.024	< 0.002 U1	1.91	1.3	< 0.01 U1
9/20/2016	Background	0.02 J1	1.99	41.6	< 0.005 U1	0.006 J1	0.2	0.381	0.4671	0.33	0.127	0.005	< 0.002 U1	1.40	1.3	0.03 J1
11/16/2016	Background	0.03 J1	2.00	39.0	< 0.005 U1	0.01 J1	0.123	0.274	0.1634	0.26	0.084	0.009	< 0.002 U1	2.17	1.3	0.03 J1
1/10/2017	Background	0.05 J1	2.00	43.5	< 0.005 U1	0.03	0.279	0.520	0.717	0.28	0.247	0.006	< 0.002 U1	1.61	1.4	0.104
3/7/2017	Background	0.02 J1	2.25	50.7	< 0.005 U1	0.01 J1	1.52	0.980	0.1969	0.30	0.348	0.010	< 0.002 U1	1.49	1.4	0.01 J1
5/8/2017	Background	0.05	2.02	42.6	0.020	0.02	0.192	0.411	0.3203	0.31	0.119	0.010	0.005	1.24	1.7	0.050
7/17/2017	Background	0.05	2.70	70.0	0.01 J1	0.03	1.05	2.67	1.812	0.25	0.807	0.012	0.003 J1	1.46	1.8	0.04 J1
6/5/2018	Assessment	0.04 J1	2.45	44.0	0.02 J1	0.24	0.579	0.615	0.261	0.41	0.349	0.012	< 0.002 U1	1.79	0.5	< 0.01 U1
8/15/2018	Assessment	0.03 J1	2.28	38.0	0.005 J1	0.009 J1	0.114	0.557	0.398	0.42	0.141	0.004	--	1.81	1.1	0.05 J1
5/24/2019	Assessment	< 0.02 U1	2.05	37.2	< 0.02 U1	< 0.01 U1	0.08 J1	0.02 J1	0.0711	0.36	0.03 J1	0.01 J1	< 0.002 U1	1 J1	1.7	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	2.06	44.2	< 0.02 U1	< 0.01 U1	0.1 J1	0.649	0.248	0.31	0.165	0.01 J1	< 0.002 U1	1 J1	1.4	< 0.1 U1
9/9/2019	Assessment	0.02 J1	2.30	51.4	< 0.02 U1	0.02 J1	0.452	1.14	0.914	0.31	0.325	0.00691	< 0.002 U1	1 J1	1.2	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	1.95	37.9	< 0.02 U1	< 0.01 U1	0.2 J1	0.203	1.649	0.34	0.05 J1	0.00618	< 0.002 U1	1 J1	0.9	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	1.94	36.2	< 0.02 U1	< 0.01 U1	0.227	0.053	0.084	0.37	< 0.05 U1	0.00632	< 0.002 U1	1 J1	1.5	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	1.97	34.9	< 0.02 U1	< 0.01 U1	0.347	0.077	0.0911	0.35	< 0.05 U1	0.00609	< 0.002 U1	1 J1	1.6	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	2.10	32.8	< 0.02 U1	< 0.01 U1	0.640	0.070	0.7085	0.40	< 0.05 U1	0.00563	< 0.002 U1	2 J1	1.2	< 0.1 U1
5/26/2021	Assessment	0.07 J1	2.01	30.2	< 0.007 U1	0.005 J1	0.77	0.05	0.87	0.43	0.24	0.00507	< 0.002 U1	1.8	0.66	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	2.23	30.2	< 0.007 U1	< 0.004 U1	0.75	0.074	0.72	0.42	< 0.05 U1	0.00489	< 0.002 U1	1.9	0.67	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	2.32	30.3	< 0.007 U1	0.044	0.72	0.257	1.58	0.42	0.07 J1	0.00464	< 0.002 U1	2.2	0.76	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	2.47	31.4	< 0.007 U1	0.006 J1	0.34	0.452	0.41	0.40	0.12 J1	0.00458	< 0.002 U1	2.1	0.76	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	2.17	30.4	< 0.007 U1	< 0.004 U1	0.25	0.049	1.09	0.38	< 0.05 U1	0.00537	< 0.002 U1	1.9	1.0	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-1602D**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	20.5	528
7/18/2016	Background	0.065	77.6	166	0.34	8.2	18.5	574
9/20/2016	Background	0.047	71.7	172	0.30	7.8	12.9	580
11/15/2016	Background	0.078	78.0	177	0.33	7.1	17.4	601
1/9/2017	Background	0.084	75.3	178	0.34	7.3	11.4	594
3/7/2017	Background	0.076	66.8	158	0.31	7.3	14.5	586
5/8/2017	Background	0.073	71.9	124	0.31	7.0	16.1	520
7/17/2017	Background	0.091	64.6	112	0.26	7.0	17.5	472
10/3/2017	Detection	0.064	68.3	135	0.29	7.4	16.0	518
12/12/2017	Detection	--	--	141	0.30	7.4	16.9	--
1/3/2018	Detection	--	--	146	--	7.8	--	574
6/5/2018	Assessment	0.07	66.0	92.8	0.35	7.8	21.6	440
8/13/2018	Assessment	0.098	73.0	131	0.31	7.2	18.0	521
5/24/2019	Assessment	0.04 J1	67.9	68.3	0.33	7.4	20.5	418
6/27/2019	Assessment	0.06 J1	69.8	68.7	0.33	7.3	20.3	429
9/12/2019	Assessment	0.059	57.8	65.1	0.28	7.1	20.2	440
3/11/2020	Assessment	--	--	--	0.33	7.1	--	--
5/20/2020	Assessment	0.04 J1	74.2	62.8	0.35	6.8	23.8	416
11/17/2020	Assessment	0.05 J1	64.0	87.1	0.33	6.9	20.5	452
2/2/2021	Assessment	0.052	66.2	83.8	0.36	6.9	21.3	472
5/26/2021	Assessment	0.045 J1	64.0	76.9	0.35	7.4	22.0	450
11/9/2021	Assessment	0.051	67.6 M1, P3	86.9	0.35	7.4	19.3	460
2/15/2022	Assessment	0.057	68.2	80.7	0.34	7.3	20.2	440
5/11/2022	Assessment	0.048 J1	76.0	66.5	0.34	7.5	24.7	430 L1
11/1/2022	Assessment	0.053	65.5	--	--	7.0	--	--
11/3/2022	Assessment	--	--	77.5	0.32	--	21.8	430

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

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 J1	7.35	380	< 0.005 U1	< 0.004 U1	0.3	0.227	1.147	0.36	0.061	0.001	< 0.002 U1	4.69	0.03 J1	< 0.01 U1
7/18/2016	Background	0.01 J1	8.54	507	< 0.005 U1	< 0.004 U1	0.5	0.166	2.43	0.34	0.02 J1	0.022	< 0.002 U1	3.89	< 0.03 U1	< 0.01 U1
9/20/2016	Background	0.02 J1	8.24	487	< 0.005 U1	< 0.004 U1	0.2	0.116	1.128	0.30	0.022	0.007	< 0.002 U1	3.31	0.03 J1	< 0.01 U1
11/15/2016	Background	0.03 J1	8.32	585	0.01 J1	0.02	0.338	0.248	4.204	0.33	0.195	0.012	< 0.002 U1	3.31	0.05 J1	0.066
1/9/2017	Background	0.01 J1	7.92	503	< 0.005 U1	< 0.004 U1	0.187	0.112	0.976	0.34	0.01 J1	0.005	< 0.002 U1	3.36	< 0.03 U1	0.02 J1
3/7/2017	Background	0.01 J1	8.04	458	< 0.005 U1	< 0.004 U1	0.395	0.106	0.705	0.31	0.029	0.004	< 0.002 U1	3.88	0.05 J1	0.02 J1
5/8/2017	Background	0.05	9.08	436	0.020	0.07	0.232	0.115	0.5884	0.31	0.056	0.007	0.005	3.93	0.1	0.050
7/17/2017	Background	0.01 J1	8.51	419	0.005 J1	< 0.005 U1	0.268	0.110	1.349	0.26	0.036	0.003	< 0.002 U1	3.60	< 0.03 U1	< 0.01 U1
6/5/2018	Assessment	0.02 J1	10.0	442	0.006 J1	0.01 J1	0.21	0.157	1.861	0.35	0.103	0.008	< 0.002 U1	3.93	< 0.03 U1	< 0.01 U1
8/13/2018	Assessment	0.01 J1	9.28	459	0.008 J1	< 0.005 U1	0.201	0.173	1.021	0.31	0.113	0.002	--	3.18	0.05 J1	< 0.01 U1
5/24/2019	Assessment	< 0.02 U1	9.29	405	< 0.02 U1	< 0.01 U1	0.05 J1	0.065	0.710	0.33	< 0.02 U1	0.01 J1	< 0.002 U1	3.23	0.03 J1	< 0.1 U1
6/27/2019	Assessment	< 0.02 U1	9.05	386	< 0.02 U1	< 0.01 U1	0.06 J1	0.066	0.688	0.33	0.02 J1	< 0.009 U1	< 0.002 U1	3.12	0.03 J1	< 0.1 U1
9/12/2019	Assessment	0.17	10.3	433	0.02 J1	0.03 J1	0.763	0.373	1.13	0.28	0.437	0.00286	< 0.002 U1	3.64	0.09 J1	< 0.1 U1
3/11/2020	Assessment	0.03 J1	9.56	439	0.05 J1	0.01 J1	1.32	0.850	2.253	0.33	0.864	0.00291	0.003 J1	3.13	0.2 J1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	9.46	412	< 0.02 U1	< 0.01 U1	0.354	0.066	0.872	0.35	< 0.05 U1	0.00212	< 0.002 U1	3.38	0.07 J1	< 0.1 U1
11/17/2020	Assessment	< 0.02 U1	8.82	431	< 0.02 U1	< 0.01 U1	0.276	0.055	2.518	0.33	< 0.05 U1	0.00275	< 0.002 U1	3.04	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	< 0.02 U1	9.29	445	< 0.02 U1	< 0.01 U1	0.247	0.057	1.727	0.36	< 0.05 U1	0.00247	< 0.002 U1	3.51	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	10.2	452	< 0.007 U1	< 0.004 U1	0.26	0.052	0.99	0.35	< 0.05 U1	0.00234	< 0.002 U1	3.5	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	< 0.02 U1	9.51	449 M1	< 0.007 U1	0.028	0.18 J1	0.049	1.32	0.35	< 0.05 U1	0.00239	< 0.002 U1	3.2	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.02 J1	9.69	445	< 0.007 U1	< 0.004 U1	0.48	0.080	1.85	0.34	< 0.05 U1	0.00241	< 0.002 U1	3.4	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	10.1	444	< 0.007 U1	< 0.004 U1	0.24	0.067	1.29	0.34	< 0.05 U1	0.00215	< 0.002 U1	3.6	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	10.1	451	< 0.007 U1	< 0.004 U1	0.27	0.027	2.20	--	< 0.05 U1	0.00241	< 0.002 U1	3.3	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	--	--	--	--	--	--	--	--	0.32	--	--	--	--	--	--

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

**Table 1 - Groundwater Data Summary: MW-16021**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	84.1	424
7/18/2016	Background	0.043	81.1	32.3	0.30	7.4	89.4	452
9/20/2016	Background	0.037	79.9	30.2	0.28	7.3	77.7	412
11/15/2016	Background	0.057	87.6	28.7	0.29	7.1	85.3	457
1/9/2017	Background	0.039	80.6	27.8	0.26	7.4	77.6	420
3/7/2017	Background	0.061	71.1	27.5	0.27	7.3	77.8	388
5/8/2017	Background	0.108	79.7	27.6	0.28	6.9	78.4	430
7/17/2017	Background	0.052	68.8	27.1	0.23	6.9	76.3	421
10/3/2017	Detection	0.065	69.2	27.5	0.26	7.3	80.8	414
12/12/2017	Detection	--	--	28.3	0.26	7.3	82.8	--
1/3/2018	Detection	--	--	--	--	7.7	82.3	--
6/5/2018	Assessment	0.06	71.3	29.8	0.31	7.8	77.6	410
8/13/2018	Assessment	0.109	76.0	28.5	0.28	7.4	75.0	405
5/24/2019	Assessment	0.05 J1	74.6	29.0	0.30	7.4	65.9	410
6/27/2019	Assessment	0.06 J1	76.2	29.2	0.30	7.3	67.4	405
9/12/2019	Assessment	0.051	83.1	28.7	0.30	7.3	70.7	404
3/11/2020	Assessment	--	--	--	0.29	7.0	--	--
5/20/2020	Assessment	0.114	113	79.0	0.30	7.7	177	627
11/17/2020	Assessment	0.121	85.0	54.5	0.30	7.0	135	537
2/3/2021	Assessment	0.088	76.1	35.6	0.33	6.7	86.0	428
5/26/2021	Assessment	0.067	73.7	31.2	0.32	7.5	76.6	420
11/9/2021	Assessment	0.048 J1	68.4	23.0	0.31	6.9	57.0	370
2/15/2022	Assessment	0.046 J1	68.5	23.0	0.30	7.1	57.8	380
5/11/2022	Assessment	0.043 J1	81.0	24.0	0.29	7.5	58.7	380 L1
10/31/2022	Assessment	0.041 J1	68.4	--	--	6.6	--	--
11/3/2022	Assessment	--	--	22.5	0.29	--	60.2	360

Notes:

mg/L: milligrams per liter

SU: standard unit

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

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.



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 J1	16.5	135	< 0.005 U1	0.005 J1	0.2	1.35	0.983	0.32	0.096	0.003	< 0.002 U1	2.61	< 0.03 U1	< 0.01 U1
7/18/2016	Background	0.02 J1	18.7	145	< 0.005 U1	0.006 J1	0.2	1.70	1.526	0.30	0.074	0.006	< 0.002 U1	2.68	0.03 J1	0.01 J1
9/20/2016	Background	0.02 J1	15.5	123	< 0.005 U1	< 0.004 U1	0.2	1.34	1.421	0.28	0.045	0.006	< 0.002 U1	2.31	0.05 J1	0.01 J1
11/15/2016	Background	0.03 J1	18.2	136	< 0.005 U1	0.006 J1	0.075	1.44	1.19	0.29	0.02 J1	0.015	< 0.002 U1	2.13	0.04 J1	0.03 J1
1/9/2017	Background	0.02 J1	18.3	126	< 0.005 U1	< 0.004 U1	0.161	1.38	0.7655	0.26	0.045	0.003	< 0.002 U1	2.23	< 0.03 U1	0.02 J1
3/7/2017	Background	0.03 J1	20.0	122	0.005 J1	< 0.004 U1	0.484	1.43	0.845	0.27	0.178	0.009	< 0.002 U1	2.21	0.06 J1	0.02 J1
5/8/2017	Background	0.14	25.5	123	0.020	0.02	0.459	1.69	1.024	0.28	0.292	0.009	0.005	2.08	0.1	0.050
7/17/2017	Background	0.05	27.3	127	0.006 J1	0.006 J1	0.193	1.52	0.8024	0.23	0.167	0.010	< 0.002 U1	2.01	< 0.03 U1	0.04 J1
6/5/2018	Assessment	0.10	38.6	128	0.01 J1	0.01 J1	0.338	1.8	0.968	0.31	0.374	0.013	< 0.002 U1	2.42	0.07 J1	0.03 J1
8/13/2018	Assessment	0.05 J1	26.9	111	0.006 J1	0.007 J1	0.086	1.31	0.90	0.28	0.092	0.001	--	2.10	< 0.03 U1	0.03 J1
5/24/2019	Assessment	0.08 J1	29.6	121	< 0.02 U1	0.03 J1	0.305	1.75	0.819	0.30	0.354	0.009 J1	< 0.002 U1	2.03	0.04 J1	< 0.1 U1
6/27/2019	Assessment	0.03 J1	22.4	115	< 0.02 U1	< 0.01 U1	0.2 J1	1.39	0.733	0.30	0.06 J1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/12/2019	Assessment	0.04 J1	30.0	120	< 0.02 U1	< 0.01 U1	0.1 J1	1.32	1.312	0.30	0.1 J1	0.00572	< 0.002 U1	2.11	0.03 J1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	22.7	118	< 0.02 U1	< 0.01 U1	< 0.04 U1	1.36	0.6159	0.29	< 0.05 U1	0.00566	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/20/2020	Assessment	0.03 J1	24.6	142	< 0.02 U1	< 0.01 U1	0.09 J1	1.83	0.665	0.30	< 0.05 U1	0.00620	< 0.002 U1	2 J1	0.1 J1	< 0.1 U1
11/17/2020	Assessment	0.06 J1	33.9	127	< 0.02 U1	< 0.01 U1	0.2 J1	1.43	2.14	0.30	0.06 J1	0.00580	< 0.002 U1	2.02	0.08 J1	< 0.1 U1
2/3/2021	Assessment	0.03 J1	27.8	107	< 0.02 U1	< 0.01 U1	0.226	1.21	1.668	0.33	< 0.05 U1	0.00531	< 0.002 U1	2.09	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.06 J1	24.9	108	0.009 J1	< 0.004 U1	0.26	1.18	1.17	0.32	< 0.05 U1	0.00524	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.04 J1	27.7	97.2	< 0.007 U1	< 0.004 U1	0.22	1.10	1.31	0.31	< 0.05 U1	0.00505	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.02 J1	24.4	95.0	< 0.007 U1	< 0.004 U1	0.36	1.06	0.90	0.30	< 0.05 U1	0.00487	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.12	42.9	99.2	< 0.007 U1	0.005 J1	0.33	1.21	1.04	0.29	0.09 J1	0.00455	< 0.002 U1	2.3	< 0.09 U1	< 0.04 U1
10/31/2022	Assessment	0.02 J1	21.5	98.2	< 0.007 U1	< 0.004 U1	0.21	1.05	0.86	--	< 0.05 U1	0.00509	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	--	--	--	--	--	--	--	--	0.29	--	--	--	--	--	--

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	59.0	433
7/18/2016	Background	0.074	79.6	26.7	0.33	6.9	55.3	430
10/10/2016	Background	0.065	81.2	26.0	0.32	7.3	47.2	406
11/15/2016	Background	0.062	90.5	25.5	0.30	7.1	50.6	399
1/9/2017	Background	0.055	91.9	25.1	0.26	7.3	49.7	401
3/7/2017	Background	0.061	86.8	26.1	0.29	7.2	47.7	392
5/8/2017	Background	0.082	91.1	26.3	0.27	7.2	47.1	417
7/17/2017	Background	0.080	80.4	25.9	0.24	6.7	45.9	400
10/3/2017	Detection	0.054	79.4	26.2	0.26	7.1	44.6	393
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	40.9	412
8/13/2018	Assessment	0.147	87.9	25.4	0.27	7.1	39.1	385
5/21/2019	Assessment	0.04 J1	71.6	25.3	0.28	7.2	38.5	397
6/27/2019	Assessment	0.06 J1	77.9	25.0	0.30	7.6	32.8	388
9/11/2019	Assessment	0.04 J1	82.8	26.1	0.30	7.2	36.4	407
3/10/2020	Assessment	--	--	--	0.28	6.7	--	--
5/21/2020	Assessment	0.04 J1	82.2	25.6	0.31	7.4	34.0	400
11/13/2020	Assessment	0.04 J1	79.4	24.6	0.29	6.8	31.5	380
2/2/2021	Assessment	0.04 J1	79.4	25.6	0.31	6.3	33.7	381
5/26/2021	Assessment	0.031 J1	80.6	26.8	0.31	7.7	33.8	390
11/9/2021	Assessment	0.031 J1	81.1	26.3	0.30	6.8	31.5	380
2/15/2022	Assessment	0.035 J1	86.6	27.3	0.28	7.1	34.9	390
5/10/2022	Assessment	0.021 J1	88.9 M1, P3	29.1	0.28	7.2	36.2	390 L1
11/2/2022	Assessment	0.032 J1	83.8 M1, P3	29.7	0.28	11.0	39.8	380

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

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 J1	10.2	112	< 0.005 U1	< 0.004 U1	0.2	1.34	1.206	0.31	0.02 J1	0.003	< 0.002 U1	6.70	< 0.03 U1	< 0.01 U1
7/18/2016	Background	0.02 J1	11.0	120	< 0.005 U1	0.007 J1	0.3	1.30	0.66	0.33	0.01 J1	0.008	< 0.002 U1	6.39	0.04 J1	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 U1	6.82	0.3	0.04 J1
11/15/2016	Background	0.03 J1	11.3	113	< 0.01 U1	0.01 J1	0.08 J1	0.703	1.275	0.30	0.02 J1	0.011	< 0.002 U1	5.02	< 0.06 U1	< 0.02 U1
1/9/2017	Background	0.01 J1	11.3	111	< 0.005 U1	0.009 J1	0.143	0.584	0.343	0.26	0.029	0.012	< 0.002 U1	4.98	< 0.03 U1	< 0.01 U1
3/7/2017	Background	0.01 J1	11.3	108	< 0.005 U1	< 0.004 U1	0.220	0.553	0.838	0.29	0.024	0.007	< 0.002 U1	5.11	0.04 J1	0.02 J1
5/8/2017	Background	0.05	11.3	103	0.020	0.02	0.238	0.586	0.982	0.27	0.068	0.006	0.005	4.78	0.1	0.050
7/17/2017	Background	0.02 J1	12.1	114	< 0.004 U1	< 0.005 U1	0.112	0.525	1.696	0.24	0.006 J1	0.008	< 0.002 U1	4.68	< 0.03 U1	< 0.01 U1
6/5/2018	Assessment	0.02 J1	12.3	109	0.009 J1	< 0.005 U1	0.251	0.441	1.607	0.30	0.207	0.008	< 0.002 U1	4.09	0.09 J1	0.03 J1
8/13/2018	Assessment	0.02 J1	12.5	105	< 0.004 U1	< 0.005 U1	0.097	0.409	0.84	0.27	0.040	0.005	--	4.38	< 0.03 U1	0.02 J1
5/21/2019	Assessment	< 0.02 U1	12.6	111	< 0.02 U1	< 0.01 U1	0.05 J1	0.354	0.73	0.28	0.04 J1	< 0.009 U1	< 0.002 U1	4.56	< 0.03 U1	< 0.1 U1
6/27/2019	Assessment	< 0.02 U1	13.2	111	< 0.02 U1	< 0.01 U1	0.06 J1	0.327	0.766	0.30	< 0.02 U1	< 0.009 U1	< 0.002 U1	3.98	< 0.03 U1	< 0.1 U1
9/11/2019	Assessment	< 0.02 U1	13.2	112	< 0.02 U1	< 0.01 U1	0.2 J1	0.327	0.957	0.30	0.08 J1	0.00380	< 0.002 U1	4.10	0.03 J1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	12.8	120	< 0.02 U1	< 0.01 U1	0.07 J1	0.291	1.167	0.28	< 0.05 U1	0.00380	< 0.002 U1	4.00	0.03 J1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	13.8	120	< 0.02 U1	< 0.01 U1	0.275	0.280	0.721	0.31	< 0.05 U1	0.00323	< 0.002 U1	3.62	0.04 J1	< 0.1 U1
11/13/2020	Assessment	< 0.02 U1	13.5	119	< 0.02 U1	< 0.01 U1	0.2 J1	0.281	1.91	0.29	< 0.05 U1	0.00326	< 0.002 U1	3.64	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	< 0.02 U1	14.6	121	< 0.02 U1	< 0.01 U1	0.2 J1	0.281	2.834	0.31	< 0.05 U1	0.00315	< 0.002 U1	3.66	0.04 J1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	14.7	125	< 0.007 U1	< 0.004 U1	0.25	0.288	0.47	0.31	< 0.05 U1	0.00331	< 0.002 U1	3.6	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.03 J1	14.1	121	< 0.007 U1	< 0.004 U1	0.21	0.247	1.78	0.30	< 0.05 U1	0.00321	< 0.002 U1	3.3	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.02 J1	14.6	128	< 0.007 U1	0.035	0.41	0.326	1.88	0.28	0.48	0.00329	< 0.002 U1	3.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	14.6	122	< 0.007 U1	< 0.004 U1	0.30	0.286	1.59	0.28	< 0.05 U1	0.00320	< 0.002 U1	3.7	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	< 0.02 U1	14.2	128 P3	< 0.007 U1	< 0.004 U1	0.28	0.237	1.48	0.28	< 0.05 U1	0.00347	< 0.002 U1	3.3	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

**Table 1 - Groundwater Data Summary: MW-1603I**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	71.9	465
7/18/2016	Background	0.157	93.9	38.8	0.43	7.2	83.8	502
9/20/2016	Background	0.153	99.8	40.1	0.39	7.3	111	500
11/15/2016	Background	0.173	101	37.4	0.42	7.2	88.5	481
1/9/2017	Background	0.147	94.7	34.6	0.38	7.2	75.3	478
3/7/2017	Background	0.187	85.0	34.7	0.40	7.3	73.2	460
5/8/2017	Background	0.187	87.2	36.8	0.40	7.3	71.0	452
7/17/2017	Background	0.196	79.3	35.1	0.35	9.8	74.9	449
10/3/2017	Detection	0.134	80.9	35.6	0.39	7.2	74.1	442
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	62	424
8/13/2018	Assessment	0.130	85.9	31.5	0.43	7.4	66.2	434
5/21/2019	Assessment	0.06 J1	81.4	39.4	0.45	7.3	74.6	467
6/27/2019	Assessment	0.07 J1	78.6	37.7	0.47	8.1	66.9	560
9/11/2019	Assessment	0.087	80.1	38.7	0.46	7.3	58.2	443
3/10/2020	Assessment	--	--	--	0.45	7.1	--	--
5/21/2020	Assessment	0.04 J1	82.4	37.9	0.46	7.7	51.0	428
11/13/2020	Assessment	0.04 J1	76.1	35.4	0.42	7.2	60.0	440
2/2/2021	Assessment	0.04 J1	78.4	35.5	0.45	6.8	56.9	424
5/26/2021	Assessment	0.035 J1	86.9	34.4	0.45	7.8	51.4	420
11/9/2021	Assessment	0.043 J1	77.3	33.3	0.41	6.7	58.8	390
2/15/2022	Assessment	0.048 J1	74.8	32.3	0.42	7.2	66.7	430
5/10/2022	Assessment	0.032 J1	80.8	33.4	0.42	7.3	66.3	440 L1
11/2/2022	Assessment	0.131	86.7	31.4	0.40	7.2	134	530

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

Table 1 - Groundwater Data Summary: MW-1603I

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 J1	13.0	81.1	< 0.005 U1	0.004 J1	0.3	1.36	0.593	0.39	0.117	< 0.0002 U1	< 0.002 U1	8.86	< 0.03 U1	0.03 J1
7/18/2016	Background	0.03 J1	12.8	83.1	< 0.005 U1	< 0.004 U1	0.8	1.30	1.821	0.43	0.053	0.013	< 0.002 U1	9.76	< 0.03 U1	0.02 J1
9/20/2016	Background	0.03 J1	12.2	94.2	< 0.005 U1	< 0.004 U1	0.1	1.41	0.904	0.39	0.008 J1	0.009	< 0.002 U1	9.85	0.04 J1	0.04 J1
11/15/2016	Background	0.04 J1	12.2	86.6	< 0.005 U1	0.007 J1	0.074	1.17	1.583	0.42	0.021	0.015	< 0.002 U1	9.21	< 0.03 U1	0.03 J1
1/9/2017	Background	0.03 J1	12.9	84.6	< 0.005 U1	< 0.004 U1	0.232	1.26	1.417	0.38	0.066	0.008	< 0.002 U1	9.47	< 0.03 U1	0.03 J1
3/7/2017	Background	0.03 J1	12.5	82.5	< 0.005 U1	< 0.004 U1	0.743	1.10	1.076	0.40	0.057	0.009	< 0.002 U1	8.79	0.05 J1	0.05 J1
5/8/2017	Background	0.05	13.0	76.8	0.020	0.02	0.145	1.24	0.824	0.40	0.174	0.009	0.005	8.86	0.1	0.050
7/17/2017	Background	0.03 J1	12.5	85.3	< 0.004 U1	< 0.005 U1	0.109	1.30	2.746	0.35	0.02 J1	0.013	< 0.002 U1	8.27	< 0.03 U1	0.05 J1
6/5/2018	Assessment	0.1	12.7	88.4	0.01 J1	0.02 J1	1.11	1.4	2.348	0.46	0.374	0.012	< 0.002 U1	7.31	0.07 J1	0.03 J1
8/13/2018	Assessment	0.03 J1	12.4	80.0	< 0.004 U1	< 0.005 U1	0.081	1.27	1.152	0.43	0.030	0.002	--	7.67	< 0.03 U1	0.04 J1
5/21/2019	Assessment	0.02 J1	12.9	81.6	< 0.02 U1	< 0.01 U1	0.08 J1	1.39	0.832	0.45	< 0.02 U1	< 0.009 U1	< 0.002 U1	6.45	< 0.03 U1	< 0.1 U1
6/27/2019	Assessment	0.07 J1	12.7	84.3	< 0.02 U1	0.01 J1	0.678	1.58	0.966	0.47	0.312	< 0.009 U1	< 0.002 U1	6.29	0.07 J1	< 0.1 U1
9/11/2019	Assessment	0.08 J1	13.2	83.0	< 0.02 U1	< 0.01 U1	0.355	1.36	1.41	0.46	0.2 J1	0.00711	< 0.002 U1	7.48	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	12.1	80.3	< 0.02 U1	< 0.01 U1	0.1 J1	1.23	1.056	0.45	< 0.05 U1	0.00720	< 0.002 U1	5.52	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	0.03 J1	15.5	89.5	< 0.02 U1	< 0.01 U1	0.09 J1	1.22	1.004	0.46	< 0.05 U1	0.00697	< 0.002 U1	5.08	< 0.03 U1	< 0.1 U1
11/13/2020	Assessment	0.32	53.0	107	0.03 J1	< 0.01 U1	0.286	1.19	1.959	0.42	0.564	0.00667	< 0.002 U1	5.29	0.07 J1	< 0.1 U1
2/2/2021	Assessment	0.03 J1	15.1	97.0	< 0.02 U1	< 0.01 U1	0.270	1.12	2.058	0.45	0.05 J1	0.00667	< 0.002 U1	5.01	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.03 J1	14.0	89.2	< 0.007 U1	< 0.004 U1	0.13 J1	1.03	0.88	0.45	< 0.05 U1	0.00623	< 0.002 U1	4.7	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.99	220	147	0.077	0.006 J1	0.47	3.49	1.27	0.41	1.54	0.00598	< 0.002 U1	6.2	0.28 J1	< 0.04 U1
2/15/2022	Assessment	0.20	37.9	97.7	0.016 J1	0.016 J1	0.46	1.16	2.26	0.42	0.29	0.00643	< 0.002 U1	5.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	17.1	94.0	< 0.007 U1	< 0.004 U1	0.27	1.16	0.93	0.42	0.07 J1	0.00628	< 0.002 U1	5.3	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	< 0.02 U1	12.8	79.8	< 0.007 U1	< 0.004 U1	0.21	1.24	1.39	0.40	< 0.05 U1	0.00798	< 0.002 U1	6.5	< 0.09 U1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-1603S**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	197	480
7/18/2016	Background	1.77	46.4	53.6	0.50	7.2	171	445
9/20/2016	Background	1.83	59.3	57.6	0.39	7.0	197	479
11/15/2016	Background	2.19	71.9	50.9	0.43	6.9	208	469
1/9/2017	Background	2.22	74.8	55.6	0.40	6.5	220	483
3/7/2017	Background	1.72	99.4	67.6	0.33	6.7	261	581
5/8/2017	Background	1.25	81.7	55.1	0.36	6.9	203	466
7/17/2017	Background	1.94	68.1	52.9	0.27	9.6	222	482
10/3/2017	Detection	1.84	51.5	20.8	0.17	6.9	75.1	481
12/12/2017	Detection	--	--	33.9	0.41	7.1	65.8	--
1/3/2018	Detection	1.67	--	--	--	7.5	218	514
6/5/2018	Assessment	1.4	42.2	54.3	0.63	7.0	178	504
8/13/2018	Assessment	1.70	52.0	69.7	0.56	7.0	243	558
5/21/2019	Assessment	1.47	62.6	56.0	0.55	6.6	187	506
6/27/2019	Assessment	1.65	67.2	57.8	0.59	7.3	205	530
9/11/2019	Assessment	2.16	55.1	51.1	0.69	7.1	224	482
3/10/2020	Assessment	--	--	--	0.71	6.5	--	--
5/21/2020	Assessment	0.826	47.5	31.1	0.77	7.4	88.3	276
11/13/2020	Assessment	2.35	39.1	37.6	0.92	7.0	131	365
2/2/2021	Assessment	2.49	40.4	41.9	0.91	6.6	137	406
5/25/2021	Assessment	2.06	33.4	23.0	1.02	7.0	82.8	250
11/9/2021	Assessment	1.87	42.0	43.9	0.94	6.4	145	410
2/15/2022	Assessment	1.85	42.4	59.1	0.98	6.9	197	500
5/10/2022	Assessment	1.59	81.9	36.9	0.81	7.1	296	600 L1
11/2/2022	Assessment	1.56	43.9	55.8	1.16	6.8	187	510

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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 J1	0.36	13.0	< 0.005 U1	0.02	0.2	0.648	0.485	0.44	0.171	< 0.0002 U1	< 0.002 U1	1.36	0.04 J1	0.02 J1
7/18/2016	Background	0.05 J1	0.27	12.5	< 0.005 U1	0.02	0.2	0.656	1.123	0.50	0.130	0.013	< 0.002 U1	0.74	< 0.03 U1	0.02 J1
9/20/2016	Background	0.04 J1	0.21	16.7	< 0.005 U1	0.02 J1	0.3	0.310	1.373	0.39	0.025	0.007	< 0.002 U1	0.50	0.7	0.04 J1
11/15/2016	Background	0.06	0.19	18.4	0.008 J1	0.03	0.104	0.233	0.508	0.43	0.072	0.013	< 0.002 U1	0.39	0.2	0.091
1/9/2017	Background	0.04 J1	0.20	16.2	< 0.005 U1	0.02 J1	0.653	0.176	0.391	0.40	0.023	0.002	< 0.002 U1	0.47	0.06 J1	0.02 J1
3/7/2017	Background	0.06	0.18	22.3	< 0.005 U1	0.06	0.530	0.092	0.2002	0.33	0.037	0.005	< 0.002 U1	0.23	0.2	0.02 J1
5/8/2017	Background	0.05	0.23	16.3	0.020	0.02	0.325	0.219	0.4136	0.36	0.116	0.006	0.005	0.15	0.2	0.050
7/17/2017	Background	0.04 J1	0.19	16.2	< 0.004 U1	0.03	0.154	0.349	2.9307	0.27	0.042	0.007	< 0.002 U1	0.20	0.06 J1	0.02 J1
6/5/2018	Assessment	0.06	0.36	12.4	0.01 J1	0.03	0.261	0.881	2.059	0.63	0.339	0.012	< 0.002 U1	2.74	0.1	0.03 J1
8/13/2018	Assessment	0.04 J1	0.20	10.5	0.01 J1	0.02	0.058	0.506	0.762	0.56	0.047	0.002	--	1.78	0.04 J1	0.054
5/21/2019	Assessment	0.03 J1	0.17	14.0	< 0.02 U1	0.02 J1	0.09 J1	0.417	0.5289	0.55	< 0.02 U1	< 0.009 U1	< 0.002 U1	< 0.4 U1	0.08 J1	< 0.1 U1
6/27/2019	Assessment	0.03 J1	0.17	13.7	< 0.02 U1	0.03 J1	0.06 J1	0.383	0.555	0.59	< 0.02 U1	< 0.009 U1	< 0.002 U1	0.5 J1	1.5	< 0.1 U1
9/11/2019	Assessment	0.04 J1	0.22	12.0	< 0.02 U1	0.02 J1	0.04 J1	0.266	0.172	0.69	< 0.05 U1	0.00414	< 0.002 U1	0.6 J1	0.3	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	0.13	10.4	< 0.02 U1	< 0.01 U1	0.335	0.055	0.4889	0.71	< 0.05 U1	0.00225	< 0.002 U1	< 0.4 U1	0.2 J1	< 0.1 U1
5/21/2020	Assessment	0.03 J1	0.11	7.53	< 0.02 U1	0.01 J1	0.325	0.04 J1	0.579	0.77	< 0.05 U1	0.00179	< 0.002 U1	< 0.4 U1	0.1 J1	< 0.1 U1
11/13/2020	Assessment	0.04 J1	0.17	9.07	< 0.02 U1	0.01 J1	0.208	0.297	0.6734	0.92	< 0.05 U1	0.00320	< 0.002 U1	< 0.4 U1	0.08 J1	< 0.1 U1
2/2/2021	Assessment	0.05 J1	0.20	11.8	< 0.02 U1	0.02 J1	0.230	0.324	0.5735	0.91	< 0.05 U1	0.00350	< 0.002 U1	0.4 J1	0.1 J1	< 0.1 U1
5/25/2021	Assessment	0.05 J1	0.13	4.82	< 0.007 U1	0.005 J1	0.18 J1	0.129	0.93	1.02	< 0.05 U1	0.00152	< 0.002 U1	0.2 J1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.04 J1	0.19	10.7	< 0.007 U1	0.022	0.21	0.439	0.67	0.94	< 0.05 U1	0.00381	< 0.002 U1	0.4 J1	0.12 J1	< 0.04 U1
2/15/2022	Assessment	0.04 J1	0.19	10.6	< 0.007 U1	0.540	0.32	0.547	1.06	0.98	< 0.05 U1	0.00396	< 0.002 U1	0.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.04 J1	0.20	19.0	< 0.007 U1	0.037	0.29	0.389	1.13	0.81	< 0.05 U1	0.00499	< 0.002 U1	0.5	0.15 J1	< 0.04 U1
11/2/2022	Assessment	0.04 J1	0.18	8.82	< 0.007 U1	0.021	0.36	0.506	1.22	1.16	< 0.05 U1	0.00337	< 0.002 U1	0.3 J1	0.20 J1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	39.1	292
7/18/2016	Background	0.022	67.8	19.3	0.28	6.9	38.6	332
9/19/2016	Background	0.010	69.8	17.8	0.26	7.3	31.9	280
11/15/2016	Background	0.025	74.9	18.0	0.27	7.1	35.0	320
1/9/2017	Background	0.016	72.9	17.1	0.24	7.2	29.6	326
3/7/2017	Background	0.075	67.2	17.4	0.24	7.3	30.4	290
5/8/2017	Background	0.050	71.8	17.3	0.26	7.2	29.2	318
7/18/2017	Background	0.095	63.7	16.9	0.21	7.2	28.7	304
10/3/2017	Detection	0.075	62.7	16.5	0.24	7.3	28.7	318
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	26.3	308
8/14/2018	Assessment	0.052	70.5	16.4	0.26	7.1	26.2	311
5/21/2019	Assessment	0.03 J1	69.3	16.1	0.27	7.2	27.4	309
6/26/2019	Assessment	0.03 J1	69.5	15.8	0.28	7.3	23.2	326
9/10/2019	Assessment	0.02 J1	74.7	15.9	0.28	7.3	24.7	326
3/11/2020	Assessment	--	--	--	0.26	7.1	--	--
5/21/2020	Assessment	0.02 J1	73.9	15.9	0.30	6.8	24.4	329
11/13/2020	Assessment	0.02 J1	68.4	15.1	0.27	6.4	20.9	306
2/3/2021	Assessment	< 0.02 U1	70.0	15.3	0.30	6.7	21.2	310
5/25/2021	Assessment	0.022 J1	71.5	15.2	0.30	7.6	20.6	310
11/9/2021	Assessment	0.021 J1	69.3	15.3	0.29	7.3	18.6	320
2/15/2022	Assessment	0.021 J1	67.8	15.2	0.27	6.7	19.8	310
5/11/2022	Assessment	0.013 J1	71.7	15.1	0.27	7.4	19.8	320
10/31/2022	Assessment	0.023 J1	69.4	15.4	0.26	7.0	19.0	310

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.



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 J1	14.6	216	< 0.005 U1	< 0.004 U1	0.2	0.119	0.374	0.30	0.098	0.002	< 0.002 U1	3.96	< 0.03 U1	< 0.01 U1
7/18/2016	Background	0.01 J1	17.9	239	< 0.005 U1	< 0.004 U1	0.2	0.086	0.8422	0.28	0.022	0.010	< 0.002 U1	3.33	0.04 J1	< 0.01 U1
9/19/2016	Background	0.01 J1	16.2	234	< 0.005 U1	< 0.004 U1	0.1	0.052	0.377	0.26	0.02 J1	0.004	< 0.002 U1	2.82	< 0.03 U1	< 0.01 U1
11/15/2016	Background	0.03 J1	16.7	247	< 0.005 U1	0.008 J1	0.117	0.047	0.454	0.27	0.02 J1	0.009	< 0.002 U1	2.80	< 0.03 U1	0.02 J1
1/9/2017	Background	0.02 J1	16.9	243	< 0.005 U1	0.007 J1	0.158	0.057	2.235	0.24	0.01 J1	< 0.0002 U1	< 0.002 U1	3.04	0.03 J1	0.095
3/7/2017	Background	0.02 J1	18.4	267	< 0.005 U1	< 0.004 U1	0.267	0.070	0.868	0.24	0.061	0.003	0.002 J1	3.20	0.06 J1	< 0.01 U1
5/8/2017	Background	0.05	18.1	226	0.020	0.02	0.128	0.091	0.744	0.26	0.043	0.004	0.005	2.90	0.1	0.050
7/18/2017	Background	0.02 J1	16.8	249	< 0.004 U1	< 0.005 U1	0.165	0.072	1.079	0.21	0.02 J1	0.002	< 0.002 U1	2.61	< 0.03 U1	< 0.01 U1
6/6/2018	Assessment	0.04 J1	22.1	266	0.004 J1	< 0.005 U1	0.057	0.117	0.942	0.28	0.034	0.007	< 0.002 U1	3.56	< 0.03 U1	< 0.01 U1
8/14/2018	Assessment	0.01 J1	16.6	237	< 0.004 U1	< 0.005 U1	0.04 J1	0.059	0.617	0.26	0.005 J1	< 0.0002 U1	--	2.50	< 0.03 U1	0.01 J1
5/21/2019	Assessment	< 0.02 U1	18.3	235	< 0.02 U1	< 0.01 U1	0.04 J1	0.051	0.771	0.27	0.06 J1	< 0.009 U1	< 0.002 U1	2.52	< 0.03 U1	< 0.1 U1
6/26/2019	Assessment	< 0.02 U1	18.2	263	< 0.02 U1	< 0.01 U1	0.06 J1	0.067	1.164	0.28	0.04 J1	< 0.009 U1	< 0.002 U1	2.58	< 0.03 U1	< 0.1 U1
9/10/2019	Assessment	< 0.02 U1	18.0	257	< 0.02 U1	< 0.01 U1	0.09 J1	0.052	0.859	0.28	< 0.05 U1	0.00157	< 0.002 U1	2.70	< 0.03 U1	< 0.1 U1
3/11/2020	Assessment	< 0.02 U1	17.8	228	< 0.02 U1	< 0.01 U1	0.09 J1	0.052	1.017	0.26	< 0.05 U1	0.00139	< 0.002 U1	2.22	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	17.9	242	< 0.02 U1	< 0.01 U1	0.2 J1	0.05 J1	1.07	0.30	< 0.05 U1	0.00140	< 0.002 U1	2.35	< 0.03 U1	< 0.1 U1
11/13/2020	Assessment	< 0.02 U1	18.2	250	< 0.02 U1	< 0.01 U1	0.1 J1	0.05 J1	1.853	0.27	< 0.05 U1	0.00154	< 0.002 U1	2.54	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	< 0.02 U1	18.5	257	< 0.02 U1	< 0.01 U1	0.2 J1	0.055	1.899	0.30	< 0.05 U1	0.00138	< 0.002 U1	2.55	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	< 0.02 U1	18.5	269 M1, P3	< 0.007 U1	< 0.004 U1	0.05 J1	0.046	1.11	0.30	< 0.05 U1	0.00131	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	< 0.02 U1	18.3	267	< 0.007 U1	< 0.004 U1	0.20	0.049	1.43	0.29	< 0.05 U1	0.00148	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	17.8	254	< 0.007 U1	< 0.004 U1	0.25	0.051	0.92	0.27	< 0.05 U1	0.00136	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	18.6	259	< 0.007 U1	< 0.004 U1	0.30	0.057	1.31	0.27	< 0.05 U1	0.00138	< 0.002 U1	2.6	< 0.09 U1	< 0.04 U1
10/31/2022	Assessment	< 0.02 U1	18.2	273	< 0.007 U1	< 0.004 U1	0.26	0.071	1.20	0.26	0.12 J1	0.00154	< 0.002 U1	2.5	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

**Table 1 - Groundwater Data Summary: MW-1604I**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	138	530
7/18/2016	Background	0.185	79.7	53.6	0.33	7.4	152	548
9/19/2016	Background	0.320	73.1	46.5	0.29	7.5	120	504
11/15/2016	Background	0.368	78.7	46.2	0.32	7.3	130	521
1/9/2017	Background	0.241	72.4	39.5	0.31	7.5	99.8	456
3/7/2017	Background	0.252	68.7	41.6	0.31	7.4	104	448
5/9/2017	Background	0.363	81.3	53.4	0.34	7.5	139	546
7/18/2017	Background	0.379	73.5	49.3	0.27	7.3	139	522
10/3/2017	Detection	0.442	69.5	45.2	0.30	7.5	129	502
12/12/2017	Detection	--	--	45.6	0.32	7.5	132	--
1/4/2018	Detection	0.385	--	--	--	7.9	119	504
6/6/2018	Assessment	0.188	62.9	39.4	0.37	7.6	95.4	442
8/14/2018	Assessment	0.193	73.8	43.7	0.33	7.4	112	487
5/21/2019	Assessment	0.254	78.2	70.1	0.34	7.3	181	618
6/27/2019	Assessment	0.278	75.2	63.5	0.38	7.5	167	622
9/10/2019	Assessment	--	--	--	--	7.4	--	--
9/11/2019	Assessment	0.269	71.5	43.6	0.35	--	127	515
3/10/2020	Assessment	--	--	--	0.35	7.2	--	--
5/21/2020	Assessment	0.324	68.1	43.9	0.40	7.8	118	496
11/13/2020	Assessment	0.298	66.3	38.0	0.35	6.4	94.4	439
2/3/2021	Assessment	0.145	56.6	29.6	0.39	6.9	52.0	351
5/25/2021	Assessment	0.108	59.4	32.4	0.40	7.3	68.6	380
11/9/2021	Assessment	0.079	56.9	35.7	0.40	7.5	77.2	400
2/15/2022	Assessment	0.118	60.5	37.8	0.37	7.1	86.6	420
5/11/2022	Assessment	0.092	64.0	39.2	0.38	7.5	81.8	400
11/1/2022	Assessment	0.066	63.4	39.4	0.36	7.3	94.4	420

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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 J1	19.5	124	< 0.005 U1	0.12	0.1	0.893	1.118	0.34	0.02 J1	0.004	< 0.002 U1	2.59	0.03 J1	0.01 J1
7/18/2016	Background	0.02 J1	19.1	132	< 0.005 U1	< 0.004 U1	0.4	0.875	1.299	0.33	0.02 J1	0.011	< 0.002 U1	2.48	< 0.03 U1	0.01 J1
9/19/2016	Background	0.03 J1	20.4	123	< 0.005 U1	< 0.004 U1	0.4	0.742	0.624	0.29	0.02 J1	0.008	< 0.002 U1	2.87	0.07 J1	0.078
11/15/2016	Background	0.04 J1	19.4	123	< 0.005 U1	0.009 J1	0.153	0.704	1.664	0.32	0.045	0.015	< 0.002 U1	2.49	< 0.03 U1	0.02 J1
1/9/2017	Background	0.02 J1	20.2	114	< 0.005 U1	< 0.004 U1	0.114	0.696	1.455	0.31	0.01 J1	0.003	< 0.002 U1	2.84	< 0.03 U1	0.02 J1
3/7/2017	Background	0.02 J1	20.0	117	< 0.005 U1	< 0.004 U1	0.573	0.743	0.671	0.31	0.024	0.009	< 0.002 U1	3.08	0.05 J1	0.02 J1
5/9/2017	Background	0.06	26.4	125	0.020	0.02	0.112	1.03	0.844	0.34	0.043	0.013	0.005	3.02	0.1	0.050
7/18/2017	Background	0.24	19.0	130	< 0.004 U1	0.005 J1	0.208	0.877	1.059	0.27	0.093	0.009	< 0.002 U1	2.75	< 0.03 U1	0.02 J1
6/6/2018	Assessment	0.03 J1	18.7	107	0.004 J1	< 0.005 U1	0.05 J1	0.792	1.089	0.37	0.01 J1	0.012	< 0.002 U1	3.00	0.03 J1	0.02 J1
8/14/2018	Assessment	0.03 J1	18.5	110	< 0.004 U1	< 0.005 U1	0.075	0.737	0.183	0.33	0.007 J1	0.004	--	2.50	< 0.03 U1	0.052
5/21/2019	Assessment	0.02 J1	21.2	151	< 0.02 U1	< 0.01 U1	0.05 J1	1.03	1.458	0.34	< 0.02 U1	0.01 J1	< 0.002 U1	2.54	0.1 J1	< 0.1 U1
6/27/2019	Assessment	0.02 J1	18.5	135	< 0.02 U1	< 0.01 U1	0.09 J1	0.979	0.888	0.38	< 0.02 U1	< 0.009 U1	< 0.002 U1	2.51	0.1 J1	< 0.1 U1
9/11/2019	Assessment	0.03 J1	20.7	119	< 0.02 U1	< 0.01 U1	0.1 J1	0.735	0.819	0.35	< 0.05 U1	0.00772	< 0.002 U1	2.26	0.05 J1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	17.5	96.7	< 0.02 U1	< 0.01 U1	0.09 J1	0.831	1.000	0.35	< 0.05 U1	0.00775	< 0.002 U1	2.10	< 0.03 U1	< 0.1 U1
5/21/2020	Assessment	0.02 J1	18.7	102	< 0.02 U1	< 0.01 U1	0.09 J1	0.763	1.320	0.40	< 0.05 U1	0.00714	< 0.002 U1	2.19	0.07 J1	< 0.1 U1
11/13/2020	Assessment	0.02 J1	27.9	101	< 0.02 U1	< 0.01 U1	0.2 J1	0.630	1.186	0.35	< 0.05 U1	0.00674	< 0.002 U1	2.19	< 0.03 U1	< 0.1 U1
2/3/2021	Assessment	0.02 J1	24.4	83.3	< 0.02 U1	< 0.01 U1	0.235	0.460	1.423	0.39	< 0.05 U1	0.00555	< 0.002 U1	2.34	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	0.09 J1	22.1	88.9	< 0.007 U1	< 0.004 U1	0.08 J1	0.497	0.90	0.40	< 0.05 U1	0.00568	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.17	56.7	102	0.025 J1	0.005 J1	0.53	0.478	2.41	0.40	0.17 J1	0.00539	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	19.5	88.8	< 0.007 U1	< 0.004 U1	0.27	0.600	2.12	0.37	< 0.05 U1	0.00626	< 0.002 U1	2.1	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.05 J1	28.3	92.4	< 0.007 U1	0.004 J1	0.42	0.674	3.74	0.38	0.06 J1	0.00547	< 0.002 U1	2.2	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	0.02 J1	19.7	94.2	< 0.007 U1	< 0.004 U1	0.25	0.597	1.36	0.36	0.07 J1	0.00613	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-1604S**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	187	532
7/20/2016	Background	0.530	79.8	60.8	0.88	7.3	186	526
9/19/2016	Background	0.650	68.1	50.3	0.92	7.5	141	456
11/15/2016	Background	0.736	82.9	58.3	0.83	--	165	533
1/9/2017	Background	0.721	83.9	63.5	0.91	7.4	173	535
3/7/2017	Background	0.725	79.1	64.1	0.94	7.5	170	528
5/8/2017	Background	0.554	111	88.0	0.81	7.5	251	672
5/18/2017	Background	--	--	--	--	7.3	--	--
7/17/2017	Background	0.473	98.6	76.0	0.76	7.3	234	657
10/3/2017	Detection	0.562	67.8	55.3	0.87	7.7	123	462
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	134	474
8/14/2018	Assessment	0.582	92.6	73.0	0.90	7.4	187	583
5/20/2019	Assessment	0.451	80.4	57.2	0.99	7.5	179	572
6/26/2019	Assessment	0.667	75.8	81.4	0.91	7.5	246	718
9/10/2019	Assessment	0.802	53.1	57.6	1.63	7.5	134	506
3/10/2020	Assessment	--	--	--	1.05	7.4	--	--
5/21/2020	Assessment	0.544	50.2	40.2	1.26	8.1	99.7	405
11/13/2020	Assessment	0.559	59.5	58.6	1.03	6.5	93.8	428
2/3/2021	Assessment	0.639	66.0	63.6	1.04	7.1	93.8	445
5/25/2021	Assessment	0.526	52.1	47.9	1.07	9.1	83.6	380
11/9/2021	Assessment	0.564	65.9	70.0	0.92	6.9	92.7	470
2/15/2022	Assessment	0.738	81.4	89.1	0.90	7.3	128	570
5/11/2022	Assessment	0.665	81.6	76.3	0.90	7.5	131	520
10/31/2022	Assessment	0.773	87.5	81.1	0.82	7.2	148	590

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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 J1	0.02	0.2	0.548	0.3437	0.89	0.315	0.011	< 0.002 U1	2.57	0.07 J1	0.02 J1
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 U1	2.33	0.2	0.057
9/19/2016	Background	0.06	0.24	13.3	< 0.005 U1	0.01 J1	0.5	0.325	1.126	0.92	0.060	0.008	< 0.002 U1	2.51	0.07 J1	0.05 J1
11/15/2016	Background	0.07	0.24	18.5	0.005 J1	0.03	0.081	0.326	0.377	0.83	0.045	0.014	< 0.002 U1	4.79	0.05 J1	0.096
1/9/2017	Background	0.06	0.31	17.3	< 0.005 U1	0.02 J1	0.701	0.338	1.629	0.91	0.02 J1	0.013	< 0.002 U1	2.59	0.06 J1	0.04 J1
3/7/2017	Background	0.05	0.20	16.0	< 0.005 U1	0.01 J1	0.326	0.321	0.151	0.94	0.027	0.013	< 0.002 U1	2.61	0.07 J1	0.03 J1
5/8/2017	Background	0.07	0.30	18.8	0.020	0.02	0.079	0.355	0.579	0.81	0.050	0.018	0.005	2.16	0.1	0.050
7/17/2017	Background	0.07	0.24	20.7	< 0.004 U1	0.02 J1	0.136	0.285	0.731	0.76	0.064	0.014	< 0.002 U1	1.88	0.03 J1	0.02 J1
6/6/2018	Assessment	0.06	0.20	14.1	< 0.004 U1	0.02 J1	0.056	0.407	1.058	1.04	0.04	0.014	< 0.002 U1	2.5	0.05 J1	0.02 J1
8/14/2018	Assessment	0.05 J1	0.20	16.3	< 0.004 U1	0.02 J1	0.088	0.365	0.444	0.90	0.009 J1	0.009	--	2.21	0.2	0.03 J1
5/20/2019	Assessment	0.06 J1	0.18	18.8	< 0.02 U1	0.03 J1	0.219	0.352	0.677	0.99	0.03 J1	< 0.009 U1	< 0.002 U1	2.29	0.07 J1	< 0.1 U1
6/26/2019	Assessment	0.04 J1	0.47	46.1	< 0.02 U1	0.02 J1	0.1 J1	1.13	0.565	0.91	0.122	0.01 J1	< 0.002 U1	1 J1	0.2	< 0.1 U1
9/10/2019	Assessment	0.06 J1	0.26	12.0	< 0.02 U1	0.02 J1	0.202	0.207	0.115	1.63	< 0.05 U1	0.00913	< 0.002 U1	4.72	0.1 J1	< 0.1 U1
3/10/2020	Assessment	0.02 J1	0.18	13.0	< 0.02 U1	0.02 J1	0.1 J1	0.384	0.941	1.05	< 0.05 U1	0.00972	< 0.002 U1	2.90	0.07 J1	< 0.1 U1
5/21/2020	Assessment	0.06 J1	0.20	12.9	< 0.02 U1	0.02 J1	0.1 J1	0.297	0.996	1.26	< 0.05 U1	0.00689	< 0.002 U1	3.09	0.1 J1	< 0.1 U1
11/13/2020	Assessment	0.08 J1	0.17	10.5	< 0.02 U1	0.03 J1	0.2 J1	0.285	0.2723	1.03	< 0.05 U1	0.00868	< 0.002 U1	2.94	0.09 J1	< 0.1 U1
2/3/2021	Assessment	0.06 J1	0.18	11.5	< 0.02 U1	0.03 J1	0.1 J1	0.355	2.752	1.04	< 0.05 U1	0.00902	< 0.002 U1	3.10	0.07 J1	< 0.1 U1
5/25/2021	Assessment	0.07 J1	0.17	10.1	< 0.007 U1	0.031	0.14 J1	0.27	0.35	1.07	< 0.05 U1	0.00777	< 0.002 U1	3.1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.05 J1	0.20	11.7	< 0.007 U1	0.018 J1	0.24	0.271	1.12	0.92	< 0.05 U1	0.00870	< 0.002 U1	2.9	0.13 J1	< 0.04 U1
2/15/2022	Assessment	0.05 J1	0.19	13.9	< 0.007 U1	0.023	0.39	0.342	0.19	0.90	< 0.05 U1	0.0100	< 0.002 U1	3.0	0.18 J1	< 0.04 U1
5/11/2022	Assessment	0.05 J1	0.17	13.2	< 0.007 U1	0.024	0.32	0.327	0.62	0.90	< 0.05 U1	0.0102	< 0.002 U1	3.1	0.13 J1	< 0.04 U1
10/31/2022	Assessment	0.05 J1	0.17	17.2	< 0.007 U1	0.033	0.19 J1	0.295	0.46	0.82	< 0.05 U1	0.0110	< 0.002 U1	3.1	0.16 J1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-1605D**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	59.7	406
7/18/2016	Background	0.021	85.7	31.5	0.22	7.2	61.6	408
9/19/2016	Background	0.002 J1	84.2	29.8	0.19	7.1	54.1	370
11/16/2016	Background	0.021	93.9	28.8	0.21	7.1	56.2	400
1/10/2017	Background	0.014	89.9	27.4	0.21	7.3	55.1	794
1/11/2017	Background	--	--	--	--	7.2	--	--
3/7/2017	Background	0.045	88.5	29.4	0.19	7.2	58.4	386
5/9/2017	Background	0.021	90.1	29.2	0.19	6.9	58.5	400
7/18/2017	Background	0.025	84.6	28.6	0.17	9.5	59.1	416
10/3/2017	Detection	0.022	83.1	26.4	0.18	7.1	56.8	390
12/11/2017	Detection	--	--	25.8	0.19	--	56.4	--
6/6/2018	Assessment	0.03	81.5	24.2	0.16	7.3	49.2	388
8/15/2018	Assessment	0.024	88.6	23.8	0.23	7.1	48.7	379
5/24/2019	Assessment	0.02 J1	75.7	22.1	0.24	6.9	38.9	364
6/25/2019	Assessment	< 0.02 U1	82.1	22.1	0.21	7.3	40.3	379
9/12/2019	Assessment	< 0.02 U1	84.0	23.7	0.22	7.0	45.1	388
3/9/2020	Assessment	--	--	--	0.20	7.0	--	--
5/20/2020	Assessment	< 0.02 U1	85.0	25.1	0.23	6.9	45.9	382
11/13/2020	Assessment	< 0.02 U1	76.6	24.4	0.21	7.0	43.2	367
2/4/2021	Assessment	< 0.02 U1	79.0	25.0	0.24	6.8	43.1	369
5/25/2021	Assessment	0.017 J1	76.8	23.8	0.23	8.9	41.0	360
11/10/2021	Assessment	0.014 J1	76.0	23.3	0.22	7.4	37.8	370
2/15/2022	Assessment	0.016 J1	75.9	23.5	0.21	7.1	39.1	350
5/11/2022	Assessment	< 0.009 U1	78.6 M1, P3	23.2	0.21	7.3	39.4	350
11/1/2022	Assessment	0.017 J1	75.6	24.1	0.20	7.2	38.3	350

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

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 J1	17.5	400	< 0.005 U1	< 0.004 U1	0.2	0.284	1.094	0.25	0.051	0.004	< 0.002 U1	7.65	0.03 J1	< 0.01 U1
7/18/2016	Background	0.01 J1	17.4	434	< 0.005 U1	< 0.004 U1	0.3	0.170	1.666	0.22	0.051	0.005	< 0.002 U1	3.19	< 0.03 U1	< 0.01 U1
9/19/2016	Background	0.01 J1	18.1	488	< 0.005 U1	< 0.004 U1	0.3	0.118	0.873	0.19	0.009 J1	0.006	< 0.002 U1	2.72	< 0.03 U1	< 0.01 U1
11/16/2016	Background	0.01 J1	18.6	453	< 0.005 U1	< 0.004 U1	0.259	0.097	1.371	0.21	0.008 J1	0.006	< 0.002 U1	2.21	< 0.03 U1	0.01 J1
1/10/2017	Background	0.01 J1	19.0	430	< 0.005 U1	< 0.004 U1	0.128	0.086	1.589	0.21	< 0.004 U1	0.004	< 0.002 U1	2.21	< 0.03 U1	< 0.01 U1
3/7/2017	Background	0.02 J1	19.1	490	< 0.005 U1	0.006 J1	0.322	0.107	1.104	0.19	0.045	0.006	< 0.002 U1	2.44	0.03 J1	< 0.01 U1
5/9/2017	Background	0.05	18.3	420	0.020	0.02	0.131	0.108	0.4527	0.19	0.037	0.003	0.005	2.08	0.1	0.050
7/18/2017	Background	0.02 J1	17.9	457	< 0.004 U1	< 0.005 U1	0.119	0.111	1.657	0.17	0.009 J1	0.005	< 0.002 U1	1.98	< 0.03 U1	0.03 J1
6/6/2018	Assessment	0.02 J1	18.2	382	0.01 J1	< 0.005 U1	0.272	0.188	1.978	0.16	0.273	0.007	< 0.002 U1	1.97	0.04 J1	< 0.01 U1
8/15/2018	Assessment	0.01 J1	20.3	443	< 0.004 U1	< 0.005 U1	0.077	0.079	0.605	0.23	0.035	0.003	--	1.94	< 0.03 U1	< 0.01 U1
5/24/2019	Assessment	0.05 J1	13.9	385	< 0.02 U1	< 0.01 U1	0.06 J1	0.255	1.116	0.24	< 0.02 U1	< 0.009 U1	< 0.002 U1	2.60	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.02 U1	18.3	365	< 0.02 U1	< 0.01 U1	0.2 J1	0.104	0.655	0.21	0.05 J1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/12/2019	Assessment	< 0.02 U1	21.2	471	< 0.02 U1	< 0.01 U1	0.652	0.084	0.896	0.22	< 0.05 U1	0.00176	< 0.002 U1	2.08	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	19.9	448	< 0.02 U1	< 0.01 U1	0.1 J1	0.069	1.802	0.20	< 0.05 U1	0.00178	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	20.7	436	< 0.02 U1	< 0.01 U1	0.1 J1	0.074	2.158	0.23	< 0.05 U1	0.00180	< 0.002 U1	2.05	0.05 J1	< 0.1 U1
11/13/2020	Assessment	< 0.02 U1	21.1	445	< 0.02 U1	< 0.01 U1	0.2 J1	0.060	1.119	0.21	< 0.05 U1	0.00156	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/4/2021	Assessment	< 0.02 U1	21.5	457	< 0.02 U1	< 0.01 U1	0.226	0.054	1.102	0.24	< 0.05 U1	0.00161	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
5/25/2021	Assessment	0.04 J1	20.9	445	< 0.007 U1	0.006 J1	0.08 J1	0.053	1.03	0.23	< 0.05 U1	0.00153	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	21.3	450	< 0.007 U1	< 0.004 U1	0.27	0.057	1.17	0.22	< 0.05 U1	0.00154	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	22.3	440	< 0.007 U1	< 0.004 U1	0.34	0.052	0.90	0.21	< 0.05 U1	0.00156	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	23.3	460 M1, P3	< 0.007 U1	< 0.004 U1	0.20	0.060	0.81	0.21	< 0.05 U1	0.00149	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	21.8	453	< 0.007 U1	< 0.004 U1	0.19 J1	0.029	2.10	0.20	< 0.05 U1	0.00153	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

**Table 1 - Groundwater Data Summary: MW-16051**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	130	522
7/19/2016	Background	0.027	92.5	46.8	0.22	7.3	135	544
9/19/2016	Background	0.020	97.9	45.6	0.18	7.3	140	548
11/16/2016	Background	0.034	103	44.4	0.19	7.1	140	567
1/10/2017	Background	0.020	91.3	43.5	0.19	7.2	119	534
3/7/2017	Background	0.046	81.9	44.7	0.17	7.3	115	474
5/9/2017	Background	0.043	93.5	41.8	0.19	7.0	115	508
7/18/2017	Background	0.036	79.9	39.7	0.1 J1	7.0	116	488
10/3/2017	Detection	0.041	82.5	40.7	0.19	7.2	120	494
12/11/2017	Detection	--	--	41.3	0.18	7.3	135	--
1/4/2018	Detection	--	--	--	--	7.6	144	536
6/6/2018	Assessment	0.129	79.2	39.1	0.16	7.3	120	500
8/15/2018	Assessment	0.158	83.4	38.0	0.23	7.3	114	483
5/24/2019	Assessment	0.08 J1	73.8	36.8	0.23	7.3	89.2	443
6/25/2019	Assessment	0.126	83.4	38.3	0.21	7.4	104	471
9/12/2019	Assessment	0.199	89.4	41.7	0.20	7.4	128	524
3/10/2020	Assessment	--	--	--	0.21	7.1	--	--
5/20/2020	Assessment	0.097	90.1	37.8	0.23	6.9	109	476
11/13/2020	Assessment	0.060	73.3	32.8	0.21	7.1	86.2	429
2/4/2021	Assessment	0.04 J1	74.2	32.9	0.24	6.9	85.1	424
5/26/2021	Assessment	0.039 J1	80.4	35.6	0.24	9.5	97.2	450
11/10/2021	Assessment	0.040 J1	81.1	36.3	0.21	7.5	106	470
2/15/2022	Assessment	0.060	77.4	36.2	0.21	7.2	108	440
5/11/2022	Assessment	0.056	76.5	37.1	0.22	7.4	106	450
11/1/2022	Assessment	0.059	76.0	35.7	0.21	7.2	104	470

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.



Table 1 - Groundwater Data Summary: MW-1605I

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 J1	17.3	151	< 0.005 U1	< 0.004 U1	0.2	1.67	1.219	0.21	0.122	0.004	< 0.002 U1	1.42	0.03 J1	0.02 J1
7/19/2016	Background	0.03 J1	20.1	178	< 0.005 U1	< 0.004 U1	1.2	1.79	2.288	0.22	0.032	0.005	< 0.002 U1	1.39	0.07 J1	0.02 J1
9/19/2016	Background	0.04 J1	19.5	180	< 0.005 U1	0.005 J1	0.2	1.66	2.171	0.18	0.160	0.008	< 0.002 U1	1.23	< 0.03 U1	0.03 J1
11/16/2016	Background	0.04 J1	18.0	168	< 0.005 U1	0.008 J1	0.091	1.58	1.912	0.19	0.079	0.017	< 0.002 U1	1.07	< 0.03 U1	0.03 J1
1/10/2017	Background	0.03 J1	18.5	161	< 0.005 U1	< 0.004 U1	0.110	1.52	1.823	0.19	0.02 J1	0.004	< 0.002 U1	1.43	0.04 J1	0.183
3/7/2017	Background	0.03 J1	18.6	156	< 0.005 U1	0.008 J1	0.214	1.48	1.721	0.17	0.063	0.007	< 0.002 U1	1.33	0.04 J1	0.03 J1
5/9/2017	Background	0.05	20.1	148	0.020	0.02	0.137	1.56	1.139	0.19	0.037	0.010	0.005	1.18	0.1	0.050
7/18/2017	Background	0.05 J1	26.2	153	< 0.004 U1	< 0.005 U1	0.104	1.49	2.173	0.1 J1	0.137	0.010	< 0.002 U1	1.16	< 0.03 U1	0.03 J1
6/6/2018	Assessment	0.03 J1	17.0	135	0.004 J1	< 0.005 U1	0.04 J1	1.47	2.27	0.16	0.184	0.011	< 0.002 U1	1.06	< 0.03 U1	0.04 J1
8/15/2018	Assessment	0.03 J1	18.8	149	0.004 J1	< 0.005 U1	0.116	1.45	1.167	0.23	0.095	0.005	--	1.12	< 0.03 U1	0.04 J1
5/24/2019	Assessment	0.04 J1	25.3	157	< 0.02 U1	< 0.01 U1	0.07 J1	1.12	1.054	0.23	0.04 J1	0.01 J1	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	17.8	134	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.29	2.118	0.21	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	< 0.2 U1	< 0.5 U1
9/12/2019	Assessment	0.05 J1	22.3	154	< 0.02 U1	< 0.01 U1	0.1 J1	1.42	1.679	0.20	0.1 J1	0.00628	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	25.7	149	< 0.02 U1	< 0.01 U1	0.1 J1	1.12	1.641	0.21	< 0.05 U1	0.00517	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
5/20/2020	Assessment	0.16	54.2	139	< 0.02 U1	< 0.01 U1	0.227	1.26	1.169	0.23	0.2 J1	0.00520	< 0.002 U1	1 J1	0.06 J1	< 0.1 U1
11/13/2020	Assessment	0.09 J1	28.1	126	< 0.02 U1	< 0.01 U1	0.232	1.24	1.672	0.21	0.2 J1	0.00513	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
2/4/2021	Assessment	0.04 J1	20.0	127	< 0.02 U1	< 0.01 U1	0.2 J1	1.12	1.611	0.24	0.06 J1	0.00497	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
5/26/2021	Assessment	0.06 J1	20.1	136	< 0.007 U1	< 0.004 U1	0.12 J1	1.13	1.36	0.24	< 0.05 U1	0.00482	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	0.03 J1	17.5	120	< 0.007 U1	0.023	0.27	1.32	2.54	0.21	0.26	0.00518	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	0.03 J1	18.5	120	< 0.007 U1	0.004 J1	0.29	1.27	3.18	0.21	0.06 J1	0.00479	< 0.002 U1	1.4	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.03 J1	19.2	121	< 0.007 U1	0.005 J1	0.31	1.24	1.37	0.22	0.06 J1	0.00471	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	0.06 J1	21.2	128	< 0.007 U1	0.006 J1	0.22	1.18	1.17	0.21	0.14 J1	0.00507	< 0.002 U1	1.3	< 0.09 U1	0.04 J1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-1605S**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		mg/L	mg/L	mg/L	mg/L	SU	mg/L	mg/L
6/7/2016	Background	0.48	76.6	51.0	0.55	7.1	167	576
7/19/2016	Background	0.438	72.6	53.1	0.55	7.2	174	586
9/19/2016	Background	0.482	79.1	54.0	0.51	7.3	179	594
11/16/2016	Background	0.584	84.0	49.7	0.53	7.1	186	599
1/10/2017	Background	0.533	78.5	48.2	0.43	7.2	170	584
3/7/2017	Background	0.608	71.2	52.0	0.55	7.2	180	564
5/9/2017	Background	0.470	79.9	50.1	0.50	7.2	181	606
7/17/2017	Background	0.490	68.6	47.5	0.43	7.1	177	582
10/3/2017	Detection	0.539	71.6	44.1	0.46	7.1	175	578
12/11/2017	Detection	--	--	42.5	0.53	7.2	164	--
1/4/2018	Detection	0.616	--	--	0.48	7.7	168	614
6/5/2018	Assessment	0.461	71	46.5	0.58	7.6	154	592
8/15/2018	Assessment	0.029	45.8	46.5	0.59	7.1	153	573
5/24/2019	Assessment	0.415	76.0	46.1	0.61	7.3	147	586
6/27/2019	Assessment	0.438	72.0	46.3	0.63	7.2	150	595
9/12/2019	Assessment	0.431	77.0	49.4	0.54	7.0	162	593
3/10/2020	Assessment	--	--	--	0.56	6.9	--	--
5/21/2020	Assessment	0.501	84.7	55.5	0.60	6.9	195	656
11/13/2020	Assessment	0.555	72.7	48.4	0.54	6.9	167	609
2/4/2021	Assessment	0.481	71.8	50.9	0.58	6.7	174	610
5/26/2021	Assessment	0.500	74.9	52.7	0.57	9.5	178	610
11/10/2021	Assessment	0.476	71.3	50.7	0.54	7.0	173	590
2/15/2022	Assessment	0.538	77.2	51.8	0.49	7.0	181	600
5/11/2022	Assessment	0.598	87.3	50.5	0.55	7.2	178	600
11/1/2022	Assessment	0.574	72.6 M1, P3	50.5	0.50	7.1	183	580

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

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 J1	0.52	8.07	< 0.005 U1	0.03	0.2	0.471	0.2307	0.55	0.116	0.13	< 0.002 U1	2.52	1.3	0.02 J1
7/19/2016	Background	0.10	0.60	8.65	< 0.005 U1	0.04	0.4	0.856	0.39	0.55	0.223	0.017	< 0.002 U1	2.20	1.0	0.02 J1
9/19/2016	Background	0.04 J1	0.42	7.61	< 0.005 U1	0.03	0.9	0.443	0.15	0.51	0.049	0.015	< 0.002 U1	1.83	1.0	0.03 J1
11/16/2016	Background	0.05	0.36	7.76	< 0.005 U1	0.04	0.108	0.355	0.964	0.53	0.021	0.021	< 0.002 U1	1.79	1.1	0.03 J1
1/10/2017	Background	0.06	0.50	8.33	< 0.005 U1	0.04	0.135	0.401	1.6248	0.43	0.02 J1	0.016	< 0.002 U1	2.01	1.1	0.060
3/7/2017	Background	0.04 J1	0.39	8.72	< 0.005 U1	0.03	0.279	0.307	0.339	0.55	0.033	0.015	< 0.002 U1	1.85	0.5	0.03 J1
5/9/2017	Background	0.05	0.45	8.41	0.020	0.03	0.247	0.370	0.255	0.50	0.020	0.013	0.005	1.81	0.9	0.050
7/17/2017	Background	0.04 J1	0.42	8.55	< 0.004 U1	0.03	0.113	0.336	1.254	0.43	0.026	0.015	< 0.002 U1	1.73	1.2	0.03 J1
6/5/2018	Assessment	0.04 J1	0.42	8.63	0.004 J1	0.03	0.093	0.321	0.705	0.58	0.042	0.016	< 0.002 U1	1.75	0.6	0.05 J1
8/15/2018	Assessment	0.04 J1	0.20	10.9	< 0.004 U1	0.03	0.078	0.087	0.1783	0.59	0.041	0.007	--	1.13	5.4	0.02 J1
5/24/2019	Assessment	0.15	2.84	15.4	0.04 J1	0.11	0.636	3.91	0.2689	0.61	1.96	0.02 J1	< 0.002 U1	2 J1	0.3	< 0.1 U1
6/27/2019	Assessment	0.11	2.44	12.5	0.04 J1	0.07	0.536	2.46	0.245	0.63	1.52	< 0.009 U1	< 0.002 U1	2 J1	0.5	0.1 J1
9/12/2019	Assessment	0.04 J1	0.61	6.72	< 0.02 U1	0.04 J1	0.09 J1	0.469	0.00129	0.54	0.1 J1	0.0108	< 0.002 U1	2.07	2.0	< 0.1 U1
3/10/2020	Assessment	0.04 J1	1.57	11.9	0.02 J1	0.05 J1	1.13	2.11	1.8805	0.56	0.920	0.0119	< 0.002 U1	2 J1	0.3	< 0.1 U1
5/21/2020	Assessment	0.05 J1	0.59	8.92	< 0.02 U1	0.04 J1	0.2 J1	0.575	1.007	0.60	0.2 J1	0.0113	< 0.002 U1	1 J1	0.4	< 0.1 U1
11/13/2020	Assessment	0.03 J1	0.47	6.32	< 0.02 U1	0.04 J1	1.12	0.377	2.5781	0.54	< 0.05 U1	0.0105	< 0.002 U1	2.21	0.8	< 0.1 U1
2/4/2021	Assessment	0.03 J1	0.47	6.04	< 0.02 U1	0.04 J1	0.928	0.361	0.544	0.58	< 0.05 U1	0.0104	< 0.002 U1	2 J1	0.6	< 0.1 U1
5/26/2021	Assessment	0.03 J1	0.45	6.85	< 0.007 U1	0.038	0.52	0.343	0.94	0.57	< 0.05 U1	0.0105	< 0.002 U1	1.8	0.71	< 0.04 U1
11/10/2021	Assessment	0.05 J1	0.46	6.29	< 0.007 U1	0.041	1.39	0.378	1.19	0.54	< 0.05 U1	0.0100	< 0.002 U1	1.8	0.27 J1	< 0.04 U1
2/15/2022	Assessment	0.04 J1	0.52	5.79	< 0.007 U1	0.045	0.62	0.470	0.70	0.49	< 0.05 U1	0.00954	< 0.002 U1	1.9	0.31 J1	< 0.04 U1
5/11/2022	Assessment	0.03 J1	0.55	6.47	< 0.007 U1	0.042	0.56	0.418	0.66	0.55	< 0.05 U1	0.00964	< 0.002 U1	1.8	0.73	0.05 J1
11/1/2022	Assessment	0.03 J1	0.54	5.70	< 0.007 U1	0.042	0.52	0.472	1.24	0.50	< 0.05 U1	0.0106	< 0.002 U1	1.8	0.09 J1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	13.9	290
7/19/2016	Background	0.018	69.9	20.8	0.20	5.9	12.8	298
9/19/2016	Background	0.020	72.3	21.7	0.19	7.3	13.2	290
11/16/2016	Background	0.017	77.1	22.0	0.19	7.2	16.4	301
1/10/2017	Background	0.012	75.5	21.6	0.16	7.2	12.8	284
3/6/2017	Background	0.073	69.9	22.3	0.18	7.2	8.7	325
5/9/2017	Background	0.034	78.1	22.3	0.17	6.9	14.4	308
7/18/2017	Background	0.028	69.3	21.6	0.15	8.4	13.5	307
10/3/2017	Detection	0.022	74.4	22.3	0.16	7.0	17.1	308
12/11/2017	Detection	--	--	22.6	0.17	7.1	19.4	--
6/6/2018	Assessment	0.044	72	23.1	0.19	8.0	19.9	331
8/15/2018	Assessment	0.028	80.5	23.9	0.20	7.3	21.5	329
5/24/2019	Assessment	0.02 J1	75.7	25.0	0.20	7.2	19.6	330
6/24/2019	Assessment	0.02 J1	80.8	25.2	0.19	7.3	21.0	329
9/12/2019	Assessment	< 0.02 U1	76.7	26.9	0.18	7.3	25.6	361
3/9/2020	Assessment	--	--	--	0.17	6.9	--	--
5/20/2020	Assessment	0.03 J1	89.7	29.9	0.20	6.9	30.7	354
11/16/2020	Assessment	< 0.02 U1	81.1	28.9	0.18	7.3	30.8	371
2/4/2021	Assessment	< 0.02 U1	82.6	29.0	0.20	7.4	32.8	348
5/25/2021	Assessment	0.019 J1	81.6	28.4	0.20	8.9	33.4	350
11/10/2021	Assessment	0.017 J1	84.6	27.5	0.19	7.1	31.0	360
2/15/2022	Assessment	0.017 J1	82.1	27.7	0.18	6.8	34.3	380
5/10/2022	Assessment	0.016 J1	85.4	28.4	0.18	7.2	35.2	360 L1
11/1/2022	Assessment	0.017 J1	83.3	27.3	0.18	6.4	35.8	360

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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 J1	11.5	327	0.01 J1	< 0.004 U1	0.5	0.508	0.551	0.23	0.214	0.003	< 0.002 U1	3.82	0.06 J1	< 0.01 U1
7/19/2016	Background	0.02 J1	13.7	372	< 0.005 U1	< 0.004 U1	0.3	0.178	0.464	0.20	0.086	0.009	< 0.002 U1	2.10	0.05 J1	< 0.01 U1
9/19/2016	Background	0.01 J1	13.4	378	< 0.005 U1	< 0.004 U1	0.1	0.113	1.152	0.19	< 0.004 U1	0.002	< 0.002 U1	2.00	< 0.03 U1	< 0.01 U1
11/16/2016	Background	0.01 J1	14.4	419	< 0.005 U1	< 0.004 U1	0.138	0.102	0.333	0.19	< 0.004 U1	0.002	< 0.002 U1	2.21	< 0.03 U1	< 0.01 U1
1/10/2017	Background	0.03 J1	13.9	383	0.034	0.02 J1	0.160	0.109	1.612	0.16	0.023	< 0.0002 U1	< 0.002 U1	2.46	0.04 J1	0.124
3/6/2017	Background	0.01 J1	13.5	374	< 0.005 U1	< 0.004 U1	0.667	0.098	0.924	0.18	0.02 J1	0.007	< 0.002 U1	2.00	< 0.03 U1	< 0.01 U1
5/9/2017	Background	0.05	14.3	370	0.020	0.02	0.153	0.086	2.3	0.17	0.020	0.004	0.005	2.07	0.1	0.050
7/18/2017	Background	0.02 J1	14.8	401	< 0.004 U1	< 0.005 U1	0.131	0.084	1.584	0.15	0.01 J1	0.006	< 0.002 U1	1.85	< 0.03 U1	< 0.01 U1
6/6/2018	Assessment	< 0.01 U1	14.7	392	0.004 J1	< 0.005 U1	0.04 J1	0.07	1.5971	0.19	0.008 J1	0.005	< 0.002 U1	1.77	< 0.03 U1	0.03 J1
8/15/2018	Assessment	0.04 J1	16.9	431	0.006 J1	0.007 J1	0.148	0.117	0.56	0.20	0.141	0.002	--	1.77	< 0.03 U1	0.02 J1
5/24/2019	Assessment	< 0.02 U1	17.4	447	< 0.02 U1	< 0.01 U1	0.1 J1	0.066	0.946	0.20	< 0.02 U1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
6/24/2019	Assessment	< 0.02 U1	17.5	431	< 0.02 U1	< 0.01 U1	0.1 J1	0.068	0.809	0.19	0.02 J1	< 0.009 U1	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
9/12/2019	Assessment	< 0.02 U1	17.4	458	< 0.02 U1	< 0.01 U1	0.09 J1	0.085	0.593	0.18	< 0.05 U1	0.000651	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	17.2	470	0.02 J1	< 0.01 U1	0.05 J1	0.053	0.980	0.17	0.05 J1	0.000659	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	17.9	472	< 0.02 U1	< 0.01 U1	0.07 J1	0.063	0.939	0.20	0.2 J1	0.000622	< 0.002 U1	2.13	0.09 J1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	17.7	467	< 0.02 U1	< 0.01 U1	0.287	0.052	0.924	0.18	< 0.05 U1	0.000564	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
2/4/2021	Assessment	< 0.02 U1	18.2	470	< 0.02 U1	< 0.01 U1	0.208	0.052	0.567	0.20	< 0.05 U1	0.000505	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	< 0.02 U1	18.3	494	< 0.007 U1	< 0.004 U1	< 0.04 U1	0.050	0.70	0.20	< 0.05 U1	0.0005	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	18.1	488	< 0.007 U1	< 0.004 U1	0.24	0.043	1.76	0.19	< 0.05 U1	0.00049	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
2/15/2022	Assessment	< 0.02 U1	17.8	493	< 0.007 U1	< 0.004 U1	0.34	0.048	2.33	0.18	< 0.05 U1	0.00048	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	17.8	472	< 0.007 U1	< 0.004 U1	0.36	0.049	0.81	0.18	< 0.05 U1	0.00047	< 0.002 U1	1.7	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	18.5	500	< 0.007 U1	< 0.004 U1	0.29	0.039	1.09	0.18	< 0.05 U1	0.00051	< 0.002 U1	1.8	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-16061  
Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	42.3	300
7/19/2016	Background	0.013	62.0	25.1	0.21	5.0	42.9	350
9/19/2016	Background	< 0.002 U1	62.8	24.2	0.19	7.2	36.7	314
11/16/2016	Background	0.014	70.7	25.0	0.21	7.3	42.6	325
1/10/2017	Background	0.007	68.0	24.5	0.17	7.4	39.3	326
3/6/2017	Background	0.025	64.1	23.8	0.19	7.4	37.8	317
5/9/2017	Background	0.070	67.8	23.0	0.19	7.4	36.8	318
7/18/2017	Background	0.023	55.5	22.6	0.17	6.7	37.1	304
10/3/2017	Detection	0.021	57.8	23.0	0.18	7.1	38.4	304
12/11/2017	Detection	--	--	23.0	0.19	7.1	37.9	--
6/6/2018	Assessment	0.053	78.2	31.5	0.2	8.1	52.4	392
8/15/2018	Assessment	0.031	86.3	25.4	0.21	7.3	50.3	387
5/21/2019	Assessment	0.02 J1	79.5	29.8	0.16	8.6	55.5	407
6/25/2019	Assessment	< 0.02 U1	86.8	31.5	0.18	7.2	51.0	406
9/12/2019	Assessment	< 0.02 U1	72.8	20.1	0.18	7.4	47.9	367
3/9/2020	Assessment	--	--	--	0.19	7.0	--	--
5/20/2020	Assessment	< 0.02 U1	74.7	19.2	0.21	6.9	43.8	340
11/16/2020	Assessment	< 0.02 U1	60.9	19.9	0.21	7.4	39.1	309
2/5/2021	Assessment	< 0.02 U1	63.8	21.0	0.24	7.5	40.7	316
5/25/2021	Assessment	0.013 J1	65.4	20.6	0.24	8.9	40.4	320
11/10/2021	Assessment	0.012 J1	62.5	19.3	0.23	7.6	39.2	310
2/14/2022	Assessment	0.013 J1	63.4	19.0	0.21	7.7	40.9	320
5/10/2022	Assessment	0.016 J1	66.8	19.5	0.22	7.4	43.6	310 L1
11/1/2022	Assessment	0.013 J1	58.5	17.2	0.21	7.0	43.1	300

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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 J1	3.00	49.4	< 0.005 U1	0.004 J1	0.2	0.929	1.347	0.22	0.166	0.004	< 0.002 U1	1.64	0.05 J1	0.03 J1
7/19/2016	Background	0.03 J1	3.99	54.0	< 0.005 U1	< 0.004 U1	0.4	0.823	1.286	0.21	0.037	0.013	< 0.002 U1	1.57	< 0.03 U1	0.03 J1
9/19/2016	Background	0.02 J1	4.99	46.7	< 0.005 U1	< 0.004 U1	0.1	0.733	1.104	0.19	0.02 J1	0.009	< 0.002 U1	1.50	< 0.03 U1	0.03 J1
11/16/2016	Background	0.02 J1	4.59	48.1	< 0.005 U1	< 0.004 U1	0.070	0.700	0.951	0.21	< 0.004 U1	0.008	< 0.002 U1	1.83	< 0.03 U1	0.04 J1
1/10/2017	Background	0.02 J1	5.11	53.6	0.007 J1	0.01 J1	0.138	0.921	4.283	0.17	0.022	0.005	< 0.002 U1	2.12	< 0.03 U1	0.05 J1
3/6/2017	Background	0.02 J1	5.07	54.7	< 0.005 U1	< 0.004 U1	0.524	0.950	0.934	0.19	0.032	0.007	< 0.002 U1	1.78	0.03 J1	0.04 J1
5/9/2017	Background	0.05	4.81	49.9	0.020	0.02	0.179	1.26	0.677	0.19	0.071	0.008	0.005	1.27	0.1	0.050
7/18/2017	Background	0.02 J1	4.72	51.1	< 0.004 U1	< 0.005 U1	0.097	1.06	0.813	0.17	0.043	0.008	< 0.002 U1	1.11	< 0.03 U1	0.04 J1
6/6/2018	Assessment	0.03 J1	5.69	67.3	< 0.004 U1	< 0.005 U1	0.083	1.49	1.252	0.20	0.026	0.007	< 0.002 U1	0.98	< 0.03 U1	0.05 J1
8/15/2018	Assessment	0.03 J1	9.11	85.2	< 0.004 U1	0.005 J1	0.061	1.95	0.3912	0.21	0.034	0.006	--	1.34	< 0.03 U1	0.083
5/21/2019	Assessment	< 0.02 U1	7.69	74.5	< 0.02 U1	< 0.01 U1	< 0.04 U1	1.56	0.562	0.16	< 0.02 U1	< 0.009 U1	< 0.002 U1	0.8 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	7.96	78.1	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.80	1.214	0.18	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	< 0.2 U1	< 0.5 U1
9/12/2019	Assessment	0.02 J1	11.2	76.7	< 0.02 U1	< 0.01 U1	0.1 J1	1.58	0.947	0.18	< 0.05 U1	0.00405	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	8.69	65.2	< 0.02 U1	< 0.01 U1	0.05 J1	1.23	0.993	0.19	< 0.05 U1	0.00348	< 0.002 U1	1 J1	0.05 J1	< 0.1 U1
5/20/2020	Assessment	< 0.02 U1	8.40	61.8	< 0.02 U1	< 0.01 U1	0.1 J1	1.28	0.663	0.21	0.2 J1	0.00326	< 0.002 U1	1 J1	0.03 J1	< 0.1 U1
11/16/2020	Assessment	< 0.02 U1	9.37	60.8	< 0.02 U1	< 0.01 U1	0.2 J1	1.26	0.968	0.21	< 0.05 U1	0.00361	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
2/5/2021	Assessment	< 0.02 U1	9.73	59.1	< 0.02 U1	< 0.01 U1	0.238	1.30	1.711	0.24	< 0.05 U1	0.00319	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
5/25/2021	Assessment	< 0.02 U1	10.6	58.0	< 0.007 U1	0.020	0.19 J1	1.14	0.69	0.24	< 0.05 U1	0.00320	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/10/2021	Assessment	< 0.02 U1	12.2	55.6	< 0.007 U1	< 0.004 U1	0.29	1.04	1.80	0.23	< 0.05 U1	0.00313	< 0.002 U1	1.2	< 0.09 U1	< 0.04 U1
2/14/2022	Assessment	0.02 J1	14.0	56.9	< 0.007 U1	0.004 J1	0.36	1.24	0.92	0.21	< 0.05 U1	0.00323	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	< 0.02 U1	9.79	51.2	< 0.007 U1	< 0.004 U1	0.34	1.18	1.03	0.22	< 0.05 U1	0.00277	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
11/1/2022	Assessment	< 0.02 U1	11.2	54.1	< 0.007 U1	< 0.004 U1	0.19 J1	1.04	1.69	0.21	< 0.05 U1	0.00314	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

**Table 1 - Groundwater Data Summary: MW-1606S**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	47.6	410
7/19/2016	Background	0.019	46.0	24.0	0.43	7.1	38.1	386
9/19/2016	Background	< 0.002 U1	44.4	18.7	0.40	7.1	31.8	316
11/16/2016	Background	0.020	54.1	26.6	0.40	6.9	40.0	358
1/10/2017	Background	0.014	48.5	22.1	0.31	6.7	30.5	351
3/7/2017	Background	0.054	47.2	23.9	0.41	7.1	33.2	331
5/9/2017	Background	0.020	52.7	24.7	0.38	7.0	37.5	377
7/18/2017	Background	0.090	44.7	22.8	0.37	6.9	36.8	367
10/3/2017	Detection	0.026	43.4	24.1	0.41	6.6	35.6	363
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	52.6	398
8/15/2018	Assessment	0.563	76.1	20.7	0.47	6.9	34.9	316
5/21/2019	Assessment	0.05 J1	48.9	26.6	0.47	7.9	64.5	416
6/25/2019	Assessment	0.03 J1	49.8	25.0	0.45	7.0	41.7	380
9/12/2019	Assessment	0.02 J1	44.4	24.4	0.54	7.0	41.9	376
3/9/2020	Assessment	--	--	--	0.58	6.8	--	--
5/20/2020	Assessment	0.05 J1	48.4	25.1	0.63	6.9	46.9	375
11/16/2020	Assessment	< 0.02 U1	40.5	21.7	0.56	6.8	32.7	337
2/5/2021	Assessment	< 0.02 U1	42.0	29.0	0.52	7.1	31.1	374
5/25/2021	Assessment	0.016 J1	45.4	29.6	0.48	8.6	36.0	400
11/10/2021	Assessment	0.021 J1	51.1	32.5	0.52	7.2	42.4	440
2/14/2022	Assessment	0.019 J1	49.3	32.6	0.50	6.9	44.3	440
5/10/2022	Assessment	0.030 J1	47.7	33.2	0.47	6.9	42.7	420 L1
11/1/2022	Assessment	0.024 J1	63.3	16.6	0.20	6.1	43.2	300

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.



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 U1	0.02	0.1	0.090	0.7867	0.46	0.145	0.012	< 0.002 U1	1.91	3.3	0.02 J1
7/19/2016	Background	0.06	0.23	11.5	< 0.005 U1	0.02 J1	0.5	0.052	0.94	0.43	0.034	0.017	< 0.002 U1	1.56	4.0	< 0.01 U1
9/19/2016	Background	0.05 J1	0.22	9.34	< 0.005 U1	0.01 J1	0.2	0.038	0.75	0.40	0.020	0.010	< 0.002 U1	1.32	5.7	0.01 J1
11/16/2016	Background	0.05 J1	0.20	11.1	< 0.005 U1	0.02 J1	0.148	0.038	0.574	0.40	0.004 J1	0.013	< 0.002 U1	1.02	3.1	0.01 J1
1/10/2017	Background	0.04 J1	0.24	10.7	0.01 J1	0.02 J1	1.29	0.141	2.025	0.31	0.097	0.006	< 0.002 U1	1.11	4.2	0.02 J1
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 U1	1.22	4.5	0.03 J1
5/9/2017	Background	0.05	0.29	12.0	0.020	0.03	0.277	0.371	0.193	0.38	0.355	0.010	0.005	0.90	6.0	0.050
7/18/2017	Background	0.05	0.32	12.6	0.01 J1	0.03	0.259	0.363	0.268	0.37	0.386	0.010	< 0.002 U1	1.08	4.7	0.02 J1
6/6/2018	Assessment	0.05 J1	0.20	13.6	0.005 J1	0.03	0.108	0.092	0.496	0.46	0.032	0.012	< 0.002 U1	1.19	2.7	0.03 J1
8/15/2018	Assessment	0.04 J1	0.44	8.22	0.004 J1	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 U1	0.05 J1	0.1 J1	0.094	0.668	0.47	< 0.02 U1	< 0.009 U1	< 0.002 U1	0.9 J1	3.3	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	0.2 J1	14.4	< 0.1 U1	0.06 J1	< 0.2 U1	< 0.1 U1	0.0646	0.45	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	2.9	< 0.5 U1
9/12/2019	Assessment	0.03 J1	0.17	11.8	< 0.02 U1	0.03 J1	0.08 J1	0.051	0.1052	0.54	< 0.05 U1	0.00814	< 0.002 U1	1 J1	2.8	< 0.1 U1
3/9/2020	Assessment	< 0.02 U1	0.17	10.7	< 0.02 U1	0.02 J1	0.2 J1	0.05 J1	0.00206	0.58	< 0.05 U1	0.00787	< 0.002 U1	1 J1	4.4	< 0.1 U1
5/20/2020	Assessment	0.04 J1	0.20	13.6	< 0.02 U1	0.03 J1	0.294	0.081	0.4706	0.63	< 0.05 U1	0.00858	< 0.002 U1	1 J1	3.2	< 0.1 U1
11/16/2020	Assessment	0.03 J1	0.17	11.5	< 0.02 U1	0.03 J1	0.286	0.05 J1	1.328	0.56	< 0.05 U1	0.00846	< 0.002 U1	1 J1	4.7	< 0.1 U1
2/5/2021	Assessment	0.03 J1	0.17	13.0	< 0.02 U1	0.03 J1	0.241	0.05 J1	0.827	0.52	< 0.05 U1	0.00830	< 0.002 U1	1 J1	3.2	< 0.1 U1
5/25/2021	Assessment	0.03 J1	0.18	11.8	< 0.007 U1	0.031	0.28	0.080	0.56	0.48	0.05 J1	0.00864	< 0.002 U1	1.1	2.23	< 0.04 U1
11/10/2021	Assessment	0.03 J1	0.18	13.6	< 0.007 U1	0.034	0.52	0.054	0.72	0.52	0.09 J1	0.00839	< 0.002 U1	1.3	1.36	< 0.04 U1
2/14/2022	Assessment	0.04 J1	0.18	13.9	< 0.007 U1	0.031	0.34	0.073	0.72	0.50	< 0.05 U1	0.00880	< 0.002 U1	1.2	2.71	< 0.04 U1
5/10/2022	Assessment	0.04 J1	0.18	18.4	< 0.007 U1	0.032	0.34	0.112	0.77	0.47	0.09 J1	0.00763	< 0.002 U1	1.1	2.48	< 0.04 U1
11/1/2022	Assessment	0.20	84.0	64.1	0.017 J1	0.007 J1	0.28	1.43	0.90	0.20	0.32	0.00311	< 0.002 U1	1.5	0.11 J1	< 0.04 U1

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	44	378
2/8/2018	Assessment	0.066	70.8	19.9	0.30	7.5	45.3	402
6/5/2018	Assessment	0.041	68.1	13.7	0.34	7.3	36.8	700
8/14/2018	Assessment	0.060	77.0	14.1	0.36	7.2	39.8	369
9/24/2018	Assessment	0.047	71.6	15.2	0.33	7.5	40.0	366
10/29/2018	Assessment	0.125	76.5	15.4	0.32	7.8	40.7	362
11/12/2018	Assessment	0.114	76.7	15.7	0.35	7.1	40	358
5/20/2019	Assessment	0.02 J1	66.8	14.0	0.32	7.2	43.5	371
6/25/2019	Assessment	0.02 J1	70.8	14.9	0.32	7.1	39.0	387
9/9/2019	Assessment	0.02 J1	70.5	16.0	0.31	7.0	36.6	376
3/10/2020	Assessment	--	--	--	0.33	7.0	--	--
5/21/2020	Assessment	0.02 J1	72.8	14.7	0.36	7.5	43.4	368
11/17/2020	Assessment	0.02 J1	71.1	16.8	0.33	7.0	40.3	379
2/2/2021	Assessment	0.03 J1	68.9	14.2	0.35	6.9	40.5	366
5/26/2021	Assessment	0.021 J1	68.7	14.8	0.36	9.3	39.8	350
11/9/2021	Assessment	0.023 J1	69.1	15.1	0.34	6.8	38.7	360
2/16/2022	Assessment	0.023 J1	68.6	14.0	0.34	7.1	39.4	360
5/11/2022	Assessment	0.018 J1	77.8	13.4	0.35	7.1	38.9	350 L1
11/2/2022	Assessment	0.023 J1	67.4	15.2	0.34	7.0	40.3	350

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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
2/8/2018	Assessment	0.03 J1	9.3	65	< 0.004 U1	0.009 J1	0.104	1.75	1.33	0.3	0.065	0.01	< 0.002 U1	1.37	0.04 J1	0.03 J1
6/5/2018	Assessment	0.02 J1	10.6	63.7	0.005 J1	0.02 J1	0.103	1.56	2.346	0.34	0.096	0.012	< 0.002 U1	1.38	< 0.03 U1	0.03 J1
8/14/2018	Assessment	0.01 J1	10.2	65.2	< 0.004 U1	< 0.005 U1	0.060	1.68	0.929	0.36	0.021	0.008	--	1.38	< 0.03 U1	0.03 J1
9/24/2018	Assessment	< 0.01 U1	10.1	64.0	< 0.004 U1	0.005 J1	0.076	1.71	0.564	0.33	0.074	< 0.0002 U1	--	1.33	< 0.03 U1	0.02 J1
10/29/2018	Assessment	< 0.02 U1	9.79	65.9	< 0.02 U1	< 0.01 U1	0.1 J1	1.66	0.417	0.32	0.04 J1	< 0.009 U1	--	1 J1	< 0.03 U1	< 0.1 U1
11/12/2018	Assessment	< 0.02 U1	9.10	62.2	< 0.02 U1	< 0.01 U1	0.1 J1	1.6	0.972	0.35	0.04 J1	< 0.009 U1	--	1 J1	< 0.03 U1	< 0.1 U1
5/20/2019	Assessment	< 0.02 U1	9.55	65.1	< 0.02 U1	< 0.01 U1	0.2 J1	1.59	0.702	0.32	< 0.02 U1	< 0.009 U1	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	9.58	64.6	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.62	2.63	0.32	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	0.2 J1	< 0.5 U1
9/9/2019	Assessment	< 0.02 U1	9.37	65.0	< 0.02 U1	< 0.01 U1	0.2 J1	1.53	0.341	0.31	< 0.05 U1	0.00691	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	< 0.02 U1	9.31	61.4	< 0.02 U1	< 0.01 U1	0.06 J1	1.48	0.546	0.33	< 0.05 U1	0.00654	< 0.002 U1	1 J1	0.03 J1	< 0.1 U1
5/21/2020	Assessment	< 0.02 U1	9.40	62.4	< 0.02 U1	< 0.01 U1	0.1 J1	1.48	1.095	0.36	< 0.05 U1	0.00636	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
11/17/2020	Assessment	< 0.02 U1	9.58	64.4	< 0.02 U1	< 0.01 U1	0.209	1.59	1.585	0.33	< 0.05 U1	0.00659	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	< 0.02 U1	10.2	64.6	< 0.02 U1	< 0.01 U1	0.299	1.63	0.815	0.35	< 0.05 U1	0.00625	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
5/26/2021	Assessment	< 0.02 U1	9.57	61.6	< 0.007 U1	< 0.004 U1	0.1 J1	1.46	0.65	0.36	< 0.05 U1	0.00631	< 0.002 U1	1.2	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	< 0.02 U1	9.55	59.6	< 0.007 U1	< 0.004 U1	0.28	1.52	1.89	0.34	0.06 J1	0.00608	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	< 0.02 U1	9.82	61.9	< 0.007 U1	0.021	0.12 J1	1.56	0.92	0.34	< 0.05 U1	0.00604	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	< 0.02 U1	9.57	57.9	< 0.007 U1	< 0.004 U1	0.25	1.43	0.58	0.35	< 0.05 U1	0.00566	< 0.002 U1	1.4	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	0.05 J1	9.35	59.5	< 0.007 U1	< 0.004 U1	0.26	1.45	0.73	0.34	0.57	0.00683	< 0.002 U1	1.3	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	40.7	338
2/8/2018	Assessment	0.095	63.7	14.5	0.38	7.7	43.1	363
6/5/2018	Assessment	0.044	65.5	14.1	0.44	7.4	36.5	328
8/14/2018	Assessment	0.052	67.9	14.5	0.39	7.2	34.8	352
9/24/2018	Assessment	0.038	68.9	14.9	0.41	7.6	35.0	346
10/31/2018	Assessment	0.104	62.4	14.8	0.40	7.9	34.8	338
11/12/2018	Assessment	0.166	71.7	14.5	0.42	7.3	35.0	322
5/20/2019	Assessment	0.02 J1	59.6	12.8	0.40	7.3	39.8	345
6/25/2019	Assessment	0.02 J1	69.4	12.8	0.41	7.7	36.3	388
9/9/2019	Assessment	< 0.02 U1	65.1	12.9	0.38	7.3	34.5	339
3/10/2020	Assessment	--	--	--	0.41	6.8	--	--
5/21/2020	Assessment	< 0.02 U1	73.3	13.0	0.43	7.2	39.8	349
11/17/2020	Assessment	< 0.02 U1	68.4	13.1	0.43	6.9	36.5	341
2/2/2021	Assessment	0.02 J1	65.9	13.2	0.45	7.0	36.1	362
5/26/2021	Assessment	0.017 J1	75.9	13.1	0.46	7.9	35.6	350
11/9/2021	Assessment	0.018 J1	64.3	13.4	0.43	6.4	32.1	310
2/16/2022	Assessment	0.017 J1	64.4	14.2	0.44	7.2	34.7	340
5/11/2022	Assessment	0.016 J1	65.2	14.8	0.43	7.2	34.8	330 L1
11/2/2022	Assessment	0.020 J1	63.4	14.7	0.42	7.3	33.6	330

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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
2/8/2018	Assessment	0.07	9.17	46.8	< 0.004 U1	0.01 J1	0.184	1.34	1.06	0.38	0.26	0.007	< 0.002 U1	2.52	0.07 J1	0.03 J1
6/5/2018	Assessment	0.05	8.07	42.7	0.021	0.02 J1	0.446	1.87	0.658	0.44	0.564	0.01	< 0.002 U1	1.15	0.2	0.05 J1
8/14/2018	Assessment	0.04 J1	6.42	38.3	0.004 J1	0.01 J1	0.085	1.10	0.3144	0.39	0.108	0.002	--	1.01	< 0.03 U1	0.02 J1
9/24/2018	Assessment	0.23	9.38	41.2	0.008 J1	0.02 J1	0.371	1.62	0.335	0.41	0.497	0.002	--	1.67	0.1	0.01 J1
10/31/2018	Assessment	0.25	6.69	40.7	< 0.02 U1	0.03 J1	0.337	1.12	0.304	0.4	0.403	0.02 J1	--	1 J1	0.07 J1	< 0.1 U1
11/12/2018	Assessment	0.10	6.77	40.3	< 0.02 U1	< 0.01 U1	0.2 J1	1.19	0.579	0.42	0.09 J1	< 0.009 U1	--	1 J1	< 0.03 U1	< 0.1 U1
5/20/2019	Assessment	0.14	12.8	41.5	< 0.02 U1	0.02 J1	0.09 J1	1.16	0.628	0.40	0.09 J1	< 0.009 U1	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	9.47	41.9	< 0.1 U1	< 0.05 U1	< 0.2 U1	1.16	0.116	0.41	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	< 0.2 U1	< 0.5 U1
9/9/2019	Assessment	0.21	7.92	40.6	< 0.02 U1	< 0.01 U1	0.08 J1	0.843	0.781	0.38	0.08 J1	0.00561	< 0.002 U1	1 J1	< 0.03 U1	< 0.1 U1
3/10/2020	Assessment	0.20	14.3	46.8	< 0.02 U1	0.02 J1	0.256	1.42	1.233	0.41	0.384	0.00594	< 0.002 U1	1 J1	0.1 J1	< 0.1 U1
5/21/2020	Assessment	0.13	11.9	41.9	< 0.02 U1	0.01 J1	0.2 J1	1.32	0.943	0.43	0.276	0.00549	< 0.002 U1	1 J1	0.06 J1	< 0.1 U1
11/17/2020	Assessment	0.06 J1	9.93	41.4	< 0.02 U1	< 0.01 U1	0.231	1.17	1.337	0.43	0.07 J1	0.00553	< 0.002 U1	1 J1	0.04 J1	< 0.1 U1
2/2/2021	Assessment	0.05 J1	9.36	41.0	< 0.02 U1	< 0.01 U1	0.2 J1	1.18	0.675	0.45	< 0.05 U1	0.00539	< 0.002 U1	1 J1	0.06 J1	< 0.1 U1
5/26/2021	Assessment	0.17	21.6	43.5	0.012 J1	0.067	0.44	2.06	0.63	0.46	0.67	0.00533	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.02 J1	7.42	39.7	< 0.007 U1	< 0.004 U1	0.30	0.872	1.09	0.43	0.09 J1	0.00579	< 0.002 U1	1.0	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	0.02 J1	7.51	37.3	< 0.007 U1	< 0.004 U1	0.21	0.845	0.70	0.44	< 0.05 U1	0.00536	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
5/11/2022	Assessment	0.05 J1	9.66	35.2	< 0.007 U1	0.009 J1	0.27	0.981	0.99	0.43	0.07 J1	0.00494	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1
11/2/2022	Assessment	0.03 J1	6.22	37.2	< 0.007 U1	< 0.004 U1	0.18 J1	0.727	1.09	0.42	< 0.05 U1	0.00596	< 0.002 U1	1.1	< 0.09 U1	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	21.1	288
2/8/2018	Assessment	0.025	56.6	19.0	0.36	7.8	21.6	334
6/4/2018	Assessment	0.032	59.2	19.4	0.38	7.4	21.3	368
8/14/2018	Assessment	0.056	64.1	19.6	0.36	7.3	20.4	329
9/25/2018	Assessment	0.035	60.7	19.6	0.37	6.6	20.3	316
10/29/2018	Assessment	0.129	63.7	19.1	0.38	7.2	18.8	312
11/12/2018	Assessment	0.139	63.6	19.1	0.39	7.5	18.9	318
5/20/2019	Assessment	< 0.02 U1	56.5	19.7	0.42	7.2	20.0	320
6/25/2019	Assessment	0.02 J1	63.5	19.6	0.37	7.3	20.7	353
9/9/2019	Assessment	< 0.02 U1	57.0	20.0	0.37	7.2	17.8	332
3/10/2020	Assessment	--	--	--	0.39	7.1	--	--
5/21/2020	Assessment	< 0.02 U1	67.8	21.6	0.41	7.3	19.6	348
11/17/2020	Assessment	< 0.02 U1	61.3	21.1	0.40	6.9	17.1	322
2/2/2021	Assessment	< 0.02 U1	57.2	20.6	0.41	7.0	16.7	319
5/26/2021	Assessment	0.015 J1	70.0	20.6	0.42	7.9	16.9	310
11/9/2021	Assessment	0.016 J1	58.6	19.4	0.39	6.5	15.6	300
2/16/2022	Assessment	0.015 J1	56.4	20.3	0.40	7.3	18.0	350
5/11/2022	Assessment	0.014 J1	60.0	22.1	0.40	7.3	17.3	320 L1
11/2/2022	Assessment	0.017 J1	56.3	21.0	0.38	6.7	16.4	310

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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
2/8/2018	Assessment	0.14	0.39	9.51	< 0.004 U1	0.03	0.256	0.198	0.356	0.36	0.176	0.007	< 0.002 U1	0.85	0.4	0.03 J1
6/4/2018	Assessment	0.07	0.38	5.20	< 0.004 U1	0.009 J1	0.05 J1	0.087	1.053	0.38	0.023	0.009	< 0.002 U1	0.68	0.6	0.01 J1
8/14/2018	Assessment	0.04 J1	0.37	9.34	< 0.004 U1	0.008 J1	0.065	0.092	0.3729	0.36	0.028	0.002	--	0.69	0.4	0.02 J1
9/25/2018	Assessment	0.12	0.38	8.55	< 0.004 U1	0.008 J1	0.03 J1	0.096	1.02	0.37	0.021	0.002	--	0.69	0.4	< 0.01 U1
10/29/2018	Assessment	0.07 J1	0.39	13.2	< 0.02 U1	0.02 J1	0.1 J1	0.091	0.1291	0.38	0.06 J1	< 0.009 U1	--	0.7 J1	0.4	< 0.1 U1
11/12/2018	Assessment	0.08 J1	0.37	8.20	< 0.02 U1	0.01 J1	0.2 J1	0.092	0.2239	0.39	0.05 J1	< 0.009 U1	--	0.7 J1	0.4	< 0.1 U1
5/20/2019	Assessment	0.06 J1	0.41	18.7	< 0.02 U1	0.04 J1	0.2 J1	0.053	0.0249	0.42	0.06 J1	< 0.009 U1	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	0.4 J1	8.08	< 0.1 U1	< 0.05 U1	< 0.2 U1	0.2 J1	0.931	0.37	< 0.1 U1	0.01 J1	< 0.002 U1	< 2 U1	0.5 J1	< 0.5 U1
9/9/2019	Assessment	0.16	0.38	16.8	< 0.02 U1	< 0.01 U1	0.1 J1	0.073	0.327	0.37	< 0.05 U1	0.00556	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
3/10/2020	Assessment	0.03 J1	0.41	11.4	< 0.02 U1	0.02 J1	0.2 J1	0.087	0.597	0.39	< 0.05 U1	0.00537	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
5/21/2020	Assessment	0.05 J1	0.39	10.4	< 0.02 U1	0.01 J1	0.1 J1	0.075	0.472	0.41	< 0.05 U1	0.00499	< 0.002 U1	0.6 J1	0.3	< 0.1 U1
11/17/2020	Assessment	0.04 J1	0.41	12.3	< 0.02 U1	0.01 J1	0.504	0.080	1.675	0.40	< 0.05 U1	0.00508	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
2/2/2021	Assessment	0.05 J1	0.42	8.12	< 0.02 U1	0.01 J1	0.310	0.087	0.447	0.41	< 0.05 U1	0.00490	< 0.002 U1	0.7 J1	0.3	< 0.1 U1
5/26/2021	Assessment	0.15	0.40	13.1	< 0.007 U1	0.04	0.09 J1	0.229	0.98	0.42	0.06 J1	0.00499	< 0.002 U1	0.7	0.48 J1	< 0.04 U1
11/9/2021	Assessment	0.03 J1	0.38	11.7	< 0.007 U1	0.011 J1	0.23	0.111	0.62	0.39	< 0.05 U1	0.00507	< 0.002 U1	0.7	0.40 J1	< 0.04 U1
2/16/2022	Assessment	0.06 J1	0.40	10.0	< 0.007 U1	0.012 J1	0.59	0.085	0.77	0.40	< 0.05 U1	0.00446	< 0.002 U1	0.7	0.47 J1	< 0.04 U1
5/11/2022	Assessment	0.08 J1	0.45	12.1	< 0.007 U1	0.012 J1	0.28	0.056	1.23	0.40	< 0.05 U1	0.00456	< 0.002 U1	0.7	0.52	< 0.04 U1
11/2/2022	Assessment	0.02 J1	0.36	10.9	< 0.007 U1	0.009 J1	0.24	0.049	0.71	0.38	< 0.05 U1	0.00517	< 0.002 U1	0.7	0.56	< 0.04 U1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	39.9	362
2/9/2018	Assessment	0.042	76.1	30.5	0.19	8.0	41.3	386
6/4/2018	Assessment	0.024	78.5	31.6	0.24	7.1	39.9	372
8/14/2018	Assessment	0.071	80.7	30.7	0.20	6.8	38.1	379
9/26/2018	Assessment	0.096	80.0	31.2	0.20	7.1	37.8	392
10/30/2018	Assessment	0.06 J1	87.2	30.9	0.20	8.2	37.3	394
11/12/2018	Assessment	0.06 J1	89.8	31.5	0.21	7.4	37.3	374
5/20/2019	Assessment	0.02 J1	78.7	30.5	0.18	7.0	38.9	402
6/26/2019	Assessment	0.02 J1	80.0	30.4	0.17	7.6	39.0	388
9/10/2019	Assessment	< 0.02 U1	86.6	30.6	0.20	7.1	37.9	384
3/9/2020	Assessment	--	--	--	0.19	7.0	--	--
5/21/2020	Assessment	< 0.02 U1	88.2	31.5	0.22	7.1	39.2	393
11/17/2020	Assessment	< 0.02 U1	86.5	30.6	0.20	6.8	37.0	384
2/2/2021	Assessment	< 0.02 U1	79.2	30.5	0.22	6.8	37.4	396
5/27/2021	Assessment	0.017 J1	83.3	30.8	0.22	7.7	37.6	400
11/9/2021	Assessment	0.015 J1	79.1	30.3	0.20	6.7	35.0	390
2/16/2022	Assessment	0.017 J1	80.7	30.8	0.19	6.9	38.0	390
5/10/2022	Assessment	0.019 J1	84.1	31.6	0.19	7.1	39.8	390 L1
11/3/2022	Assessment	0.050	76.8	31.1	0.19	7.1	39.1	370

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.



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
2/9/2018	Assessment	0.25	22.5	212	< 0.004 U1	0.02 J1	0.389	0.877	0.977	0.19	0.27	0.007	< 0.002 U1	5.91	0.09 J1	0.03 J1
6/4/2018	Assessment	0.18	25.2	208	0.005 J1	0.02	0.105	0.698	1.345	0.24	0.052	0.009	< 0.002 U1	4.18	< 0.03 U1	0.02 J1
8/14/2018	Assessment	0.15	21.3	191	< 0.004 U1	0.02 J1	0.091	0.590	0.949	0.20	0.026	0.002	--	3.68	< 0.03 U1	0.03 J1
9/26/2018	Assessment	0.18	22.0	211	< 0.004 U1	0.01 J1	0.069	0.564	1.084	0.20	0.230	0.008	--	3.38	< 0.03 U1	0.02 J1
10/30/2018	Assessment	0.1	22.5	204	< 0.02 U1	0.01 J1	0.08 J1	0.581	0.784	0.20	0.02 J1	< 0.009 U1	--	2.77	0.03 J1	< 0.1 U1
11/12/2018	Assessment	0.08 J1	20.2	199	< 0.02 U1	0.02 J1	0.1 J1	0.498	1.167	0.21	0.03 J1	< 0.009 U1	--	2.53	< 0.03 U1	< 0.1 U1
5/20/2019	Assessment	0.08 J1	25.6	223	< 0.02 U1	0.02 J1	0.1 J1	0.686	1.207	0.18	0.04 J1	< 0.009 U1	< 0.002 U1	2.43	< 0.03 U1	< 0.1 U1
6/26/2019	Assessment	0.07 J1	24.4	209	< 0.02 U1	0.02 J1	0.08 J1	0.601	0.689	0.17	0.07 J1	0.02 J1	< 0.002 U1	2.15	0.03 J1	< 0.1 U1
9/10/2019	Assessment	0.04 J1	22.1	203	< 0.02 U1	< 0.01 U1	0.1 J1	0.536	0.639	0.20	< 0.05 U1	0.00456	< 0.002 U1	2.16	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	0.02 J1	21.2	207	< 0.02 U1	0.02 J1	0.07 J1	0.534	1.102	0.19	< 0.05 U1	0.00430	< 0.002 U1	2 J1	0.04 J1	< 0.1 U1
5/21/2020	Assessment	0.08 J1	20.3	199	< 0.02 U1	0.04 J1	0.2 J1	0.517	1.047	0.22	< 0.05 U1	0.00398	< 0.002 U1	2 J1	0.07 J1	< 0.1 U1
11/17/2020	Assessment	0.05 J1	21.0	206	< 0.02 U1	< 0.01 U1	0.2 J1	0.519	1.100	0.20	< 0.05 U1	0.00416	< 0.002 U1	2 J1	0.03 J1	< 0.1 U1
2/2/2021	Assessment	0.08 J1	25.6	202	< 0.02 U1	0.02 J1	0.2 J1	0.574	1.0318	0.22	0.06 J1	0.00409	< 0.002 U1	2.00	0.05 J1	< 0.1 U1
5/27/2021	Assessment	0.08 J1	29.8	209 P3	< 0.007 U1	0.016 J1	0.36	0.607	1.45	0.22	0.07 J1	0.00407	< 0.002 U1	2.1	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.03 J1	35.9	204	< 0.007 U1	0.007 J1	0.29	0.534	2.42	0.20	0.09 J1	0.00417	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	0.13	22.9	195	< 0.007 U1	0.047	0.40	0.551	1.02	0.19	0.06 J1	0.00396	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.07 J1	26.6	188	< 0.007 U1	0.014 J1	0.24	0.537	1.09	0.19	0.12 J1	0.00366	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	0.10	36.2	209	0.050	0.082	0.28	0.642	0.45	0.19	0.22	0.00441	0.005	1.9	0.50	0.20

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

**Table 1 - Groundwater Data Summary: MW-1702I**

**Rockport - BAP  
Appendix III Constituents**

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	45.4	376
2/9/2018	Assessment	0.045	72.7	27.6	0.22	7.8	46.6	377
6/4/2018	Assessment	0.081	76.2	28.7	0.24	7.1	43.4	760
8/13/2018	Assessment	0.051	81.1	29.0	0.22	6.6	41.5	382
9/25/2018	Assessment	0.056	78.9	29.8	0.23	6.8	41.9	398
10/30/2018	Assessment	0.07 J1	81.7	29.2	0.23	7.8	41.9	392
11/12/2018	Assessment	0.07 J1	82.7	29.9	0.24	6.8	41.9	364
5/20/2019	Assessment	0.02 J1	73.2	28.8	0.21	6.9	44.5	376
6/25/2019	Assessment	0.02 J1	74.7	28.5	0.20	7.3	44.7	376
9/10/2019	Assessment	< 0.02 U1	80.2	28.9	0.24	7.1	43.6	384
3/9/2020	Assessment	--	--	--	--	7.1	--	--
3/11/2020	Assessment	--	--	--	0.22	--	--	--
5/21/2020	Assessment	< 0.02 U1	83.3	29.7	0.25	7.1	44.1	376
11/17/2020	Assessment	< 0.02 U1	76.5	29.0	0.23	6.8	41.6	394
2/2/2021	Assessment	< 0.02 U1	74.2	28.7	0.25	6.7	41.8	389
5/27/2021	Assessment	0.014 J1	78.5	28.2	0.25	7.8	41.8	380
11/9/2021	Assessment	0.014 J1	72.7	28.9	0.24	6.6	40.0	380
2/16/2022	Assessment	0.015 J1	76.4	28.7	0.23	7.1	42.9	390
5/10/2022	Assessment	0.016 J1	87.1	28.6	0.23	7.1	44.9	390 L1
11/3/2022	Assessment	0.050	69.2 M1	28.9	0.23	7.3	44.2	370

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) was above acceptance limits.

Table 1 - Groundwater Data Summary: MW-17021

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
2/9/2018	Assessment	0.05 J1	42.3	109	0.007 J1	0.01 J1	1.49	2.15	1.324	0.22	0.337	0.004	< 0.002 U1	7.9	0.1	0.04 J1
6/4/2018	Assessment	0.07	28.1	109	0.007 J1	0.06	0.129	1.29	1.969	0.24	0.247	0.009	< 0.002 U1	1.91	0.08 J1	0.054
8/13/2018	Assessment	0.10	28.9	102	0.004 J1	0.02 J1	0.146	1.35	1.243	0.22	0.074	0.002	--	1.89	0.05 J1	0.102
9/25/2018	Assessment	0.44	39.6	114	< 0.004 U1	0.01 J1	0.050	1.70	0.3854	0.23	0.087	0.003	--	2.04	0.04 J1	0.05 J1
10/30/2018	Assessment	0.14	43.0	113	< 0.02 U1	0.22	0.1 J1	1.57	1.364	0.23	0.129	< 0.009 U1	--	2 J1	0.05 J1	< 0.1 U1
11/12/2018	Assessment	0.18	37.3	109	< 0.02 U1	0.05	0.1 J1	1.52	0.746	0.24	0.09 J1	< 0.009 U1	--	2 J1	0.04 J1	< 0.1 U1
5/20/2019	Assessment	0.07 J1	49.5	115	< 0.02 U1	0.01 J1	0.05 J1	1.43	1.519	0.21	0.05 J1	< 0.009 U1	< 0.002 U1	2 J1	0.05 J1	< 0.1 U1
6/25/2019	Assessment	0.07 J1	54.1	114	< 0.02 U1	0.02 J1	0.07 J1	1.78	0.467	0.20	0.1 J1	0.02 J1	< 0.002 U1	2 J1	0.07 J1	< 0.1 U1
9/10/2019	Assessment	0.08 J1	55.8	112	< 0.02 U1	< 0.01 U1	0.1 J1	1.60	0.584	0.24	0.06 J1	0.00469	< 0.002 U1	2.03	< 0.03 U1	< 0.1 U1
3/9/2020	Assessment	0.12	67.5	121	< 0.02 U1	0.13	0.852	3.15	1.081	--	0.678	0.00453	< 0.002 U1	2 J1	0.1 J1	< 0.1 U1
3/11/2020	Assessment	--	--	--	--	--	--	--	--	0.22	--	--	--	--	--	--
5/21/2020	Assessment	0.08 J1	38.7	108	< 0.02 U1	0.02 J1	0.2 J1	1.53	1.589	0.25	0.1 J1	0.00415	< 0.002 U1	2 J1	0.06 J1	< 0.1 U1
11/17/2020	Assessment	0.12	65.4	113	< 0.02 U1	0.05	0.204	1.66	1.671	0.23	0.1 J1	0.00429	< 0.002 U1	2 J1	< 0.03 U1	< 0.1 U1
2/2/2021	Assessment	0.13	72.7	115	< 0.02 U1	0.02 J1	0.205	1.60	1.535	0.25	0.05 J1	0.00425	< 0.002 U1	2 J1	0.05 J1	< 0.1 U1
5/27/2021	Assessment	0.08 J1	50.4	110	< 0.007 U1	0.008 J1	0.13 J1	1.42	0.88	0.25	< 0.05 U1	0.00422	< 0.002 U1	1.8	< 0.09 U1	< 0.04 U1
11/9/2021	Assessment	0.06 J1	54.4	110	< 0.007 U1	0.006 J1	0.22	1.54	1.35	0.24	< 0.05 U1	0.00426	< 0.002 U1	1.9	< 0.09 U1	< 0.04 U1
2/16/2022	Assessment	0.10	75.4	116	< 0.007 U1	0.014 J1	0.33	1.70	1.64	0.23	0.05 J1	0.00412	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
5/10/2022	Assessment	0.12	57.1	110	< 0.007 U1	0.013 J1	0.26	1.26	1.56	0.23	0.07 J1	0.00390	< 0.002 U1	2.0	< 0.09 U1	< 0.04 U1
11/3/2022	Assessment	0.10	79.1	114	0.050	0.020	0.36	1.75	1.36	0.23	0.20	0.00449	0.005	1.8	0.50	0.20

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

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

Collection Date	Monitoring Program	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
		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	22.7	254
2/9/2018	Assessment	0.042	29.7	14	0.62	7.9	22.2	281
6/4/2018	Assessment	0.059	38.4	14.4	0.57	7.0	26.7	276
8/13/2018	Assessment	0.057	36.9	13.6	0.55	6.3	22.0	272
9/25/2018	Assessment	0.041	36.2	14.1	0.54	6.6	20.7	266
10/30/2018	Assessment	0.09 J1	34.9	14.1	0.61	7.5	17.1	256
11/12/2018	Assessment	0.1 J1	41.5	14.5	0.56	6.8	21.5	246
5/20/2019	Assessment	0.03 J1	27.1	14.7	0.70	6.8	20.8	272
6/25/2019	Assessment	0.04 J1	36.7	14.6	0.59	7.2	22.3	284
9/10/2019	Assessment	0.04 J1	35.6	16.5	0.63	6.7	19.2	284
3/9/2020	Assessment	--	--	--	0.63	7.2	--	--
5/21/2020	Assessment	0.03 J1	37.2	14.3	0.67	7.0	23.0	276
11/17/2020	Assessment	0.04 J1	32.7	13.9	0.64	6.5	17.6	259
2/4/2021	Assessment	0.03 J1	33.7	13.5	0.70	7.5	18.1	259
5/27/2021	Assessment	0.032 J1	34.9	13.5	0.64	7.8	18.7	270
11/9/2021	Assessment	0.029 J1	34.6	13.4	0.59	7.1	17.0	260
2/16/2022	Assessment	0.028 J1	34.4	14.2	0.62	7.2	20.6	270
5/10/2022	Assessment	0.017 J1	28.6	13.7	0.68	7.1	19.1	260 L1
11/3/2022	Assessment	0.050	34.9	13.4	0.57	7.1	18.7	250

Notes:

mg/L: milligrams per liter

SU: standard unit

<: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag.

In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit.

In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

L1: The associated laboratory control sample (LSC) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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
2/9/2018	Assessment	0.05 J1	0.72	9.81	< 0.004 U1	0.006 J1	0.212	0.258	0.00483	0.62	0.223	< 0.0002 U1	< 0.002 U1	1.09	1.1	0.01 J1
6/4/2018	Assessment	0.05 J1	0.45	7.67	< 0.004 U1	0.04	0.124	0.07	1.231	0.57	0.077	0.006	< 0.002 U1	1.42	3.8	0.01 J1
8/13/2018	Assessment	0.13	0.47	7.14	0.005 J1	0.05	0.175	0.173	0.1628	0.55	0.188	< 0.0002 U1	--	1.15	1.8	0.03 J1
9/25/2018	Assessment	0.08	0.44	5.97	< 0.004 U1	0.008 J1	0.130	0.104	0.421	0.54	0.079	< 0.0002 U1	--	1.20	1.2	< 0.01 U1
10/30/2018	Assessment	0.05 J1	0.48	5.5	< 0.02 U1	0.11	0.2 J1	0.05 J1	0.0859	0.61	0.08 J1	< 0.009 U1	--	1 J1	1	< 0.1 U1
11/12/2018	Assessment	0.04 J1	0.42	6.27	< 0.02 U1	0.03 J1	0.2 J1	0.272	0.107	0.56	0.229	< 0.009 U1	--	1 J1	1.5	< 0.1 U1
5/20/2019	Assessment	0.09 J1	0.45	5.92	< 0.02 U1	0.28	0.475	0.058	0.56253	0.70	0.373	< 0.009 U1	< 0.002 U1	1 J1	1.5	< 0.1 U1
6/25/2019	Assessment	< 0.1 U1	0.4 J1	5.71	< 0.1 U1	< 0.05 U1	0.2 J1	< 0.1 U1	0.357	0.59	< 0.1 U1	< 0.009 U1	< 0.002 U1	< 2 U1	2.4	< 0.5 U1
9/10/2019	Assessment	0.08 J1	0.43	4.87	< 0.02 U1	0.01 J1	0.215	0.096	0.2432	0.63	0.1 J1	0.00127	< 0.002 U1	1 J1	1.3	< 0.1 U1
3/9/2020	Assessment	0.04 J1	0.42	4.46	< 0.02 U1	0.01 J1	0.335	0.03 J1	1.1358	0.63	< 0.05 U1	0.00128	< 0.002 U1	1 J1	1.8	< 0.1 U1
5/21/2020	Assessment	0.03 J1	0.37	4.79	< 0.02 U1	< 0.01 U1	0.208	< 0.02 U1	1.14	0.67	< 0.05 U1	0.00106	< 0.002 U1	1 J1	1.8	< 0.1 U1
11/17/2020	Assessment	0.07 J1	0.37	4.22	< 0.02 U1	0.05 J1	0.278	0.03 J1	1.17	0.64	< 0.05 U1	0.00116	< 0.002 U1	1 J1	1.3	< 0.1 U1
2/4/2021	Assessment	0.07 J1	0.48	5.59	< 0.02 U1	0.05	0.430	0.348	0.392	0.70	0.350	0.00136	< 0.002 U1	1 J1	2.0	< 0.1 U1
5/27/2021	Assessment	0.07 J1	0.30	4.51	< 0.007 U1	0.019 J1	0.20	0.028	0.55	0.64	< 0.05 U1	0.00142	< 0.002 U1	1.4	2.23	< 0.04 U1
11/9/2021	Assessment	0.02 J1	0.30	4.15	< 0.007 U1	0.017 J1	0.51	0.026	0.62	0.59	< 0.05 U1	0.00152	< 0.002 U1	1.4	1.74	< 0.04 U1
2/16/2022	Assessment	0.04 J1	0.35	3.94	< 0.007 U1	0.118	0.52	0.026	1.47	0.62	< 0.05 U1	0.00152	< 0.002 U1	1.5	2.65	< 0.04 U1
5/10/2022	Assessment	0.09 J1	0.44	4.13	< 0.007 U1	0.014 J1	0.40	0.021	0.71	0.68	< 0.05 U1	0.00099	< 0.002 U1	1.0	1.92	< 0.04 U1
11/3/2022	Assessment	0.10	0.29	3.81	0.050	0.020	0.30	0.020	0.66	0.57	0.20	0.00163	0.005	1.4	2.79	0.20

## Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

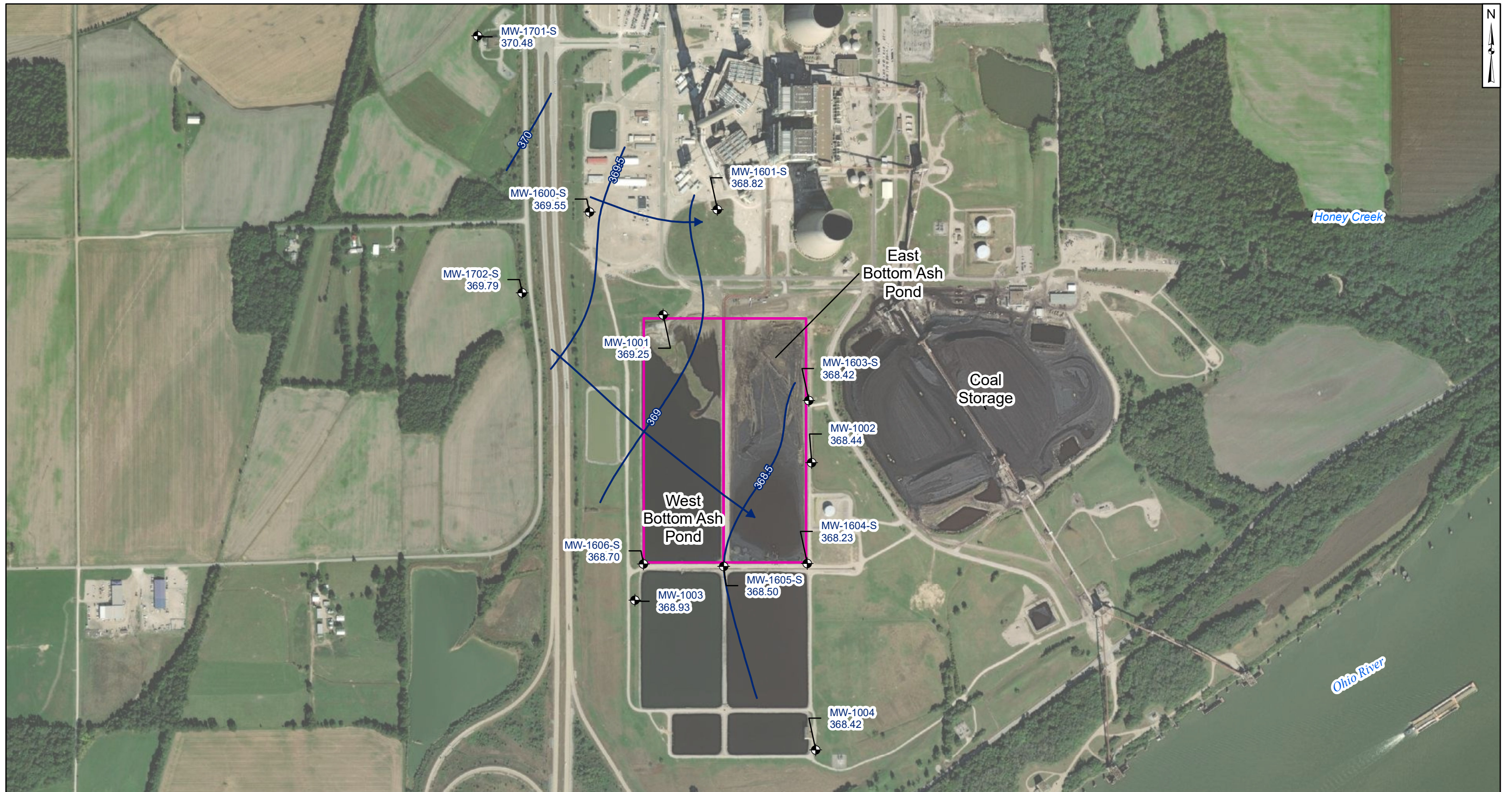
&lt;: Non-detect value. Analytes which were not detected are shown as less than the method detection limit (MDL) followed by a 'U1' flag. In analytical data prior to 5/18/2021, U1 flags were reported as U in the analytical report.

--: Not analyzed

J1: Concentration estimated. Analyte was detected between the method detection limit and the reporting limit. In analytical data prior to 5/18/2021, J1 flags were reported as J in the analytical report.

## **Groundwater Flow Direction Maps**

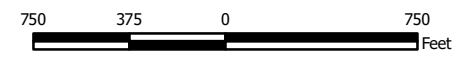




- Legend**
- Groundwater Monitoring Well
  - Groundwater Elevation Contour
  - ➔ Approximate Groundwater Flow Direction
  - ▭ Bottom Ash Ponds

**Notes:**

- Monitoring well coordinates and water level data (collected on February 14, 2022) provided by AEP.
- Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC, 2016) provided by AEP.
- Only shallow screened wells were used for generating groundwater contours.
- Groundwater elevation units are feet above mean sea level.



**Potentiometric Surface Map - Uppermost Aquifer  
February 2022**

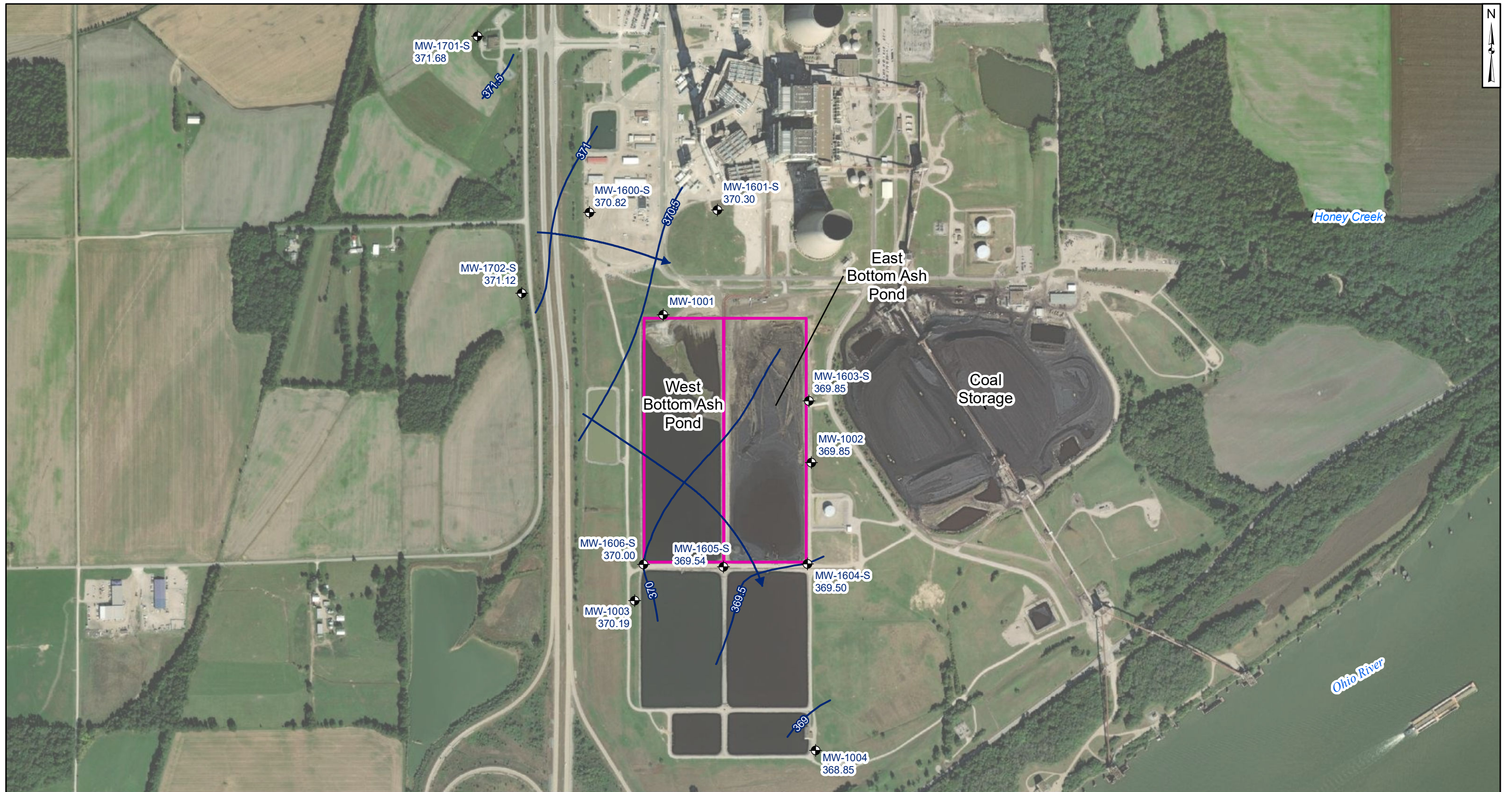
AEP-Rockport Power Plant - Bottom Ash Ponds  
Rockport, Indiana



Figure  
**X**

Columbus, Ohio      2022/05/06

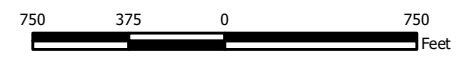




- Legend**
- ◆ Groundwater Monitoring Well
  - Groundwater Elevation Contour
  - ➔ Approximate Groundwater Flow Direction
  - ▭ Bottom Ash Ponds

**Notes:**

- Monitoring well coordinates and water level data (collected on May 9, 2022) provided by AEP.
- Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC, 2016) provided by AEP.
- Only shallow screened wells were used for generating groundwater contours.
- MW-1001 (364.65 ft) was not used to generate groundwater contours due to inconsistent or anomalous readings.
- Groundwater elevation units are feet above mean sea level.



**Potentiometric Surface Map - Uppermost Aquifer  
May 2022**

AEP-Rockport Power Plant - Bottom Ash Ponds  
Rockport, Indiana

**Geosyntec**  
consultants

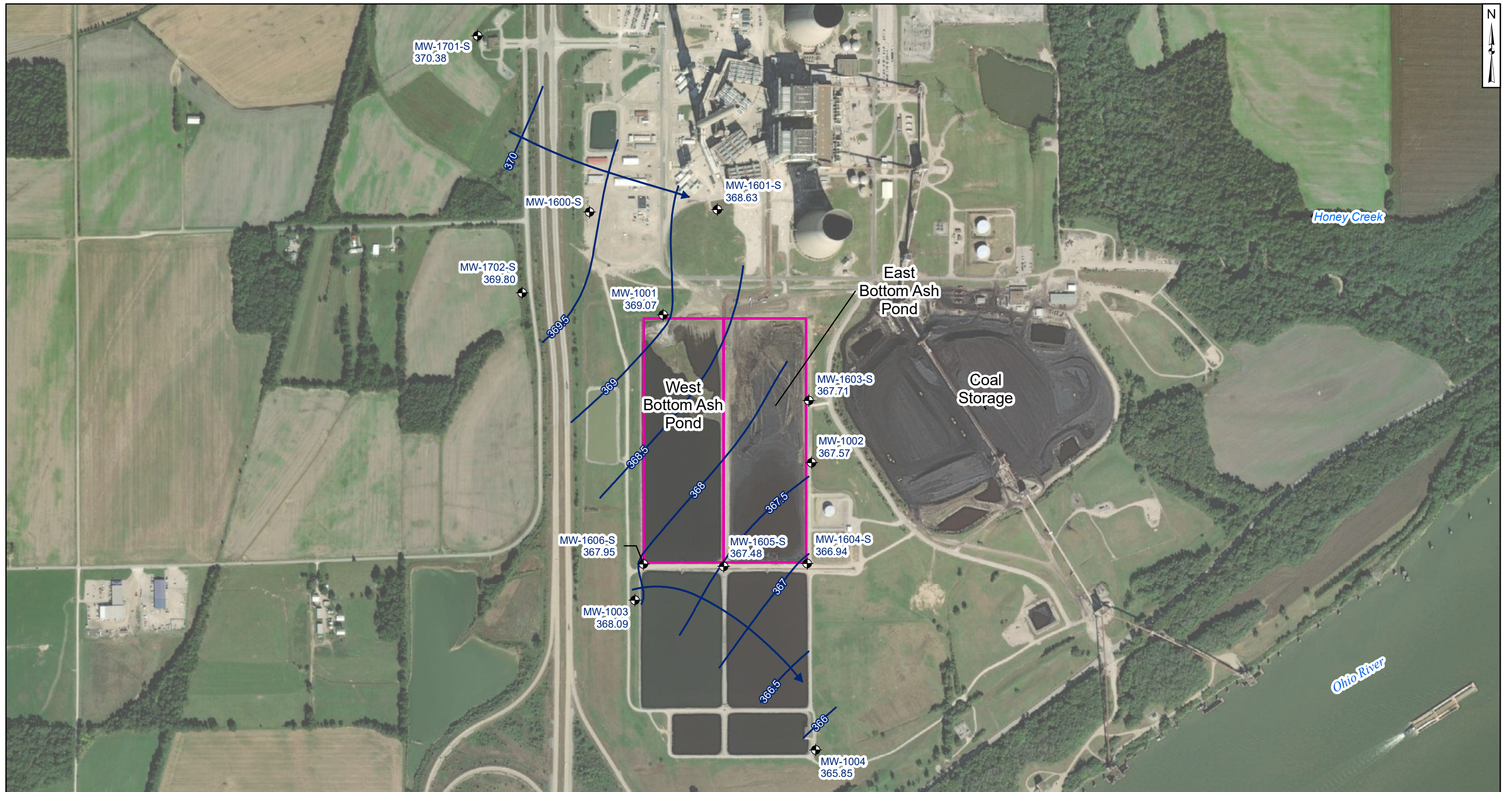
Figure

**X**

Columbus, Ohio

2022/08/15

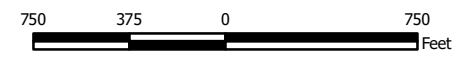




- Legend**
- Groundwater Monitoring Well
  - Groundwater Elevation Contour
  - Approximate Groundwater Flow Direction
  - Bottom Ash Ponds

**Notes:**

- Monitoring well coordinates and water level data (collected on October 31, 2022) provided by AEP.
- Site features based on information available in the Groundwater Monitoring Network Evaluation (AMEC, 2016) provided by AEP.
- Only shallow screened wells were used for generating groundwater contours.
- MW-1600S (362.83 ft) was not used to generate groundwater contours due to inconsistent or anomalous readings.
- Groundwater elevation units are feet above mean sea level.



**Potentiometric Surface Map - Uppermost Aquifer  
October 2022**

AEP-Rockport Power Plant - Bottom Ash Ponds  
Rockport, Indiana

**Geosyntec**  
consultants

Columbus, Ohio      2023/01/10

Figure  
**X**



## **Groundwater Flow Velocity Calculations**

**Table 1: Residence Time Calculation Summary  
Rockport - Bottom Ash Ponds**

CCR Management Unit	Monitoring Well	Well Diameter (inches)	2022-02		2022-05		2022-10	
			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 <sup>[1]</sup>	2.0	691	0.09	669	0.09	541	0.11
	MW-1600I <sup>[1]</sup>	2.0	69	0.88	491	0.12	470	0.13
	MW-1600S <sup>[1]</sup>	2.0	345	0.18	401	0.15	NC	NC
	MW-1601D <sup>[1]</sup>	2.0	511	0.12	125	0.49	103	0.59
	MW-1601I <sup>[1]</sup>	2.0	114	0.54	1,827	0.03	310	0.20
	MW-1601S <sup>[1]</sup>	2.0	511	0.12	358	0.17	638	0.10
	MW-1002 <sup>[2]</sup>	2.0	127	0.48	133	0.46	441	0.14
	MW-1602D <sup>[2]</sup>	2.0	489	0.12	320	0.19	728	0.08
	MW-1602I <sup>[2]</sup>	2.0	425	0.14	258	0.24	585	0.10
	MW-1603D <sup>[2]</sup>	2.0	751	0.08	438	0.14	1,071	0.06
	MW-1603I <sup>[2]</sup>	2.0	300	0.20	219	0.28	516	0.12
	MW-1603S <sup>[2]</sup>	2.0	300	0.20	219	0.28	555	0.11
	MW-1604D <sup>[2]</sup>	2.0	263	0.23	276	0.22	702	0.09
	MW-1604I <sup>[2]</sup>	2.0	263	0.23	255	0.24	634	0.10
	MW-1604S <sup>[2]</sup>	2.0	245	0.25	255	0.24	634	0.10
	MW-1605D <sup>[2]</sup>	2.0	123	0.49	29	2.11	360	0.17
	MW-1605I <sup>[2]</sup>	2.0	306	0.20	192	0.32	625	0.10
	MW-1605S <sup>[2]</sup>	2.0	268	0.23	443	0.14	551	0.11
	MW-1606D <sup>[2]</sup>	2.0	232	0.26	426	0.14	547	0.11
	MW-1606I <sup>[2]</sup>	2.0	241	0.25	404	0.15	581	0.10
MW-1606S <sup>[2]</sup>	2.0	186	0.21	374	0.16	503	0.12	

Notes:

[1] - Upgradient Well

[2] - Downgradient Well

NC - No Calculation was performed

## **APPENDIX 2 – Statistical Analyses**

The memorandums summarizing the statistical evaluation follow.

**STATISTICAL ANALYSIS SUMMARY**  
**BOTTOM ASH POND**  
**Rockport Plant**  
**Rockport, Indiana**

*Submitted to*



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March 3, 2022  
CHA8500

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## LIST OF ATTACHMENTS

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

## LIST OF ACRONYMS AND ABBREVIATIONS

AEP	American Electric Power
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
LPL	Lower Prediction Limit
LRB	Laboratory Reagent Blanks
MCL	Maximum Contaminant Level
NELAP	National Environmental Laboratory Accreditation Program
PQL	Practical Quantitation Limit
QA	Quality Assurance
QC	Quality Control
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. Recent groundwater monitoring results were compared to site-specific groundwater protection standards (GWPSs) to identify potential exceedances.

Based on detection monitoring conducted in 2017 and 2018, statistically significant increases (SSIs) over background were concluded for boron, calcium, chloride, fluoride, total dissolved solids (TDS), and sulfate at the BAP. An alternative source was not identified at the time, so the BAP initiated assessment monitoring in 2018. GWPS were set in accordance with 40 CFR 257.95(d)(2) and a statistical evaluation of the assessment monitoring data was conducted. During 2021, an annual sampling event for Appendix III parameters and Appendix IV parameters required by 40 CFR 257.95(b) was completed in February, and semiannual sampling events for Appendix III parameters and Appendix IV parameters, as required by 40 CFR 257.95(d)(1), were completed in May and November. During the February and May 2021 assessment monitoring events, no statistically significant levels (SSLs) of Appendix IV parameters were observed (Geosyntec, 2021). Concentrations of Appendix III parameters remained above background levels; thus, the unit remained in assessment monitoring. One assessment monitoring event was conducted at the BAP in November 2021 in accordance with 40 CFR 257.95. The results of the November 2021 assessment event are documented in this report.

Prior to conducting the statistical analyses, the 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 data usability.

The monitoring data were submitted to Groundwater Stats Consulting, LLC for statistical analysis. GWPSs were established for the Appendix IV parameters. Confidence intervals were calculated for Appendix IV parameters at the compliance wells to assess whether SSLs of Appendix IV parameters were present above the GWPS. No SSLs were identified. Concentrations of Appendix III parameters remained above background levels; thus, the unit will remain in assessment monitoring. Certification of the selected statistical methods by a qualified professional engineer is documented in Attachment A.



## SECTION 2

### FLY ASH POND EVALUATION

#### 2.1 Data Validation & QA/QC

During the assessment monitoring program, one set of samples was collected for analysis from upgradient and downgradient wells to meet the requirements of 257.95(d)(1) in November 2021. Samples from November 2021 were analyzed for all Appendix III and Appendix IV parameters. A summary of data collected during this assessment monitoring event is presented 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.9.6.32 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 October 2020 *Statistical Analysis Plan* (Geosyntec, 2020). Time series plots and results for all completed statistical tests are provided in Attachment B.

The data obtained in November 2021 were screened for potential outliers. No outliers were identified for this event.

##### 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* (Geosyntec, 2020). 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 combined radium. Non-parametric tolerance limits were calculated for antimony, arsenic, barium, cadmium, chromium, cobalt, fluoride, lead, lithium, molybdenum, and selenium due to

apparent non-normal distributions and for beryllium, mercury, and thallium 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. 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. Interwell and intrawell prediction limits are updated periodically during the assessment monitoring period as sufficient data became available.

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 through September 2019 to the new compliance samples through May 2021 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 Attachment B.

For the intrawell tests, the prediction limits were calculated using a one-of-two retesting procedure and historical data through May 2021. Intrawell prediction limits were used to evaluate potential SSIs for calcium and pH.

Prediction limits for the interwell tests were recalculated using data collected during the 2021 assessment monitoring events. New upgradient well data were tested for outliers prior to being

added to the background dataset. Upgradient were data were also evaluated for statistically significant trends using the Sen's Slope/Mann-Kendall trend test, and the results are included in Attachment B. The updated boron, chloride, fluoride, sulfate, and TDS prediction limits were calculated using a one-of-two retesting procedure, as during detection monitoring. The revised interwell prediction limits were used to evaluate potential SSIs for boron, chloride, fluoride, sulfate, and TDS.

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.

Interwell UPLs were updated for boron, chloride, fluoride, sulfate, and TDS using historical data through November 2021. Intrawell UPLs were updated for calcium and pH, and intrawell LPLs were updated for pH using all the historical data through May 2021 to represent background values. The updated prediction limits are summarized in Table 3. The prediction limits were calculated for a one-of-two retesting procedure; i.e., if at least one sample in a series of two does not exceed the UPL, or in the case of pH, is neither less than the LPL nor greater than the UPL, then it can be concluded that an SSI has not occurred. In practice, where the initial result does not exceed the UPL, or in the case of pH, is neither less than the LPL nor greater than the UPL, a second sample will not be collected. 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**

While no SSLs for Appendix IV parameters were identified, a review of the Appendix III results was completed to assess whether concentrations of Appendix III parameters at the compliance wells exceeded background concentrations.

Data collected during the November 2021 assessment monitoring event from each compliance well were compared to the re-calculated prediction limits to evaluate results above background values. The results from this event and the prediction limits are summarized in Table 3. The following exceedances of the UPLs were noted:

- Boron concentrations exceeded the interwell UPL of 0.208 mg/L at MW-1002 (1.70 mg/L), MW-1603S (1.87 mg/L), MW-1604S (0.564 mg/L), and MW-1605S (0.476 mg/L).

- Chloride concentrations exceeded the interwell UPL of 46.4 mg/L at MW-1002 (59.4 mg/L), MW-1602D (86.9 mg/L), MW-1604S (70.0 mg/L), and MW-1605S (50.7 mg/L).
- Fluoride concentrations exceeded the interwell UPL of 0.700 mg/L at MW-1002 (0.96 mg/L), MW-1603S (0.94 mg/L), and MW-1604S (0.92 mg/L).
- Sulfate concentrations exceeded the interwell UPL of 76.0 mg/L at MW-1002 (169 mg/L), MW-1603S (145 mg/L), MW-1604I (77.2 mg/L), MW-1604S (92.7 mg/L), MW-1605I (106 mg/L), and MW-1605S (173 mg/L).
- TDS concentrations exceeded the interwell UPL of 454 mg/L at MW-1602D (460 mg/L), MW-1604S (470 mg/L), MW-1605I (470 mg/L), and MW-1605S (590 mg/L).

While the prediction limits were calculated for a one-of-two retesting procedure, SSIs were conservatively assumed if the November 2021 sample was above the UPL or below the LPL. Based on these results, concentrations of Appendix III constituents appear to be above background levels at compliance wells.

### **2.3 Conclusions**

A semi-annual assessment monitoring event was conducted at the BAP 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 November 2021 data. GWPSs were 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. Appendix III parameters were compared to established prediction limits, with exceedances identified for boron, chloride, fluoride, sulfate, and TDS.

Based on this evaluation, the Rockport BAP CCR unit will remain in assessment monitoring.

### **SECTION 3**

#### **REFERENCES**

Geosyntec Consultants (Geosyntec). 2020. Statistical Analysis Plan. October 2020.

Geosyntec. 2021. Statistical Analysis Summary – Bottom Ash Pond, Rockport, Rockport, Indiana. August 30, 2021.

# TABLES

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

Parameter	Unit	MW-1002	MW-1002	MW-1600D	MW-1600I	MW-1600S	MW-1601D	MW-1601I	MW-1601S	MW-1602D
		11/9/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021
Antimony	µg/L	-	0.04 J	0.1 U	0.02 J	0.03 J	0.1 U	0.1 U	0.1 U	0.1 U
Arsenic	µg/L	-	0.26	17.8	19.6	0.66	11.5	19.0	2.23	9.51
Barium	µg/L	-	12.5	788	658	26.8	509	625	30.2	449
Beryllium	µg/L	-	0.05 U	0.05 U	0.05 U	0.014 J	0.05 U	0.05 U	0.05 U	0.05 U
Boron	mg/L	-	1.70	0.016 J	0.019 J	0.038 J	0.029 J	0.025 J	0.113	0.051
Cadmium	µg/L	-	0.020	0.02 U	0.005 J	0.041	0.02 U	0.02 U	0.02 U	0.028
Calcium	mg/L	-	42.2	79.3	70.0	56.4	86.3	85.8	68.6	67.6
Chloride	mg/L	-	59.4	28.7	25.7	43.0	19.1	29.4	36.7	86.9
Chromium	µg/L	-	0.20	0.27	0.23	0.51	0.21	0.22	0.75	0.18 J
Cobalt	µg/L	-	0.500	0.092	1.14	1.12	0.051	1.19	0.074	0.049
Combined Radium	pCi/L	-	3.01	1.21	2.41	0.45	0.77	2.11	0.72	1.32
Fluoride	mg/L	-	0.96	0.23	0.24	0.42	0.18	0.25	0.42	0.35
Lead	µg/L	-	0.2 U	0.07 J	0.08 J	0.63	0.2 U	0.2 U	0.2 U	0.2 U
Lithium	mg/L	-	0.00502	0.00545	0.00643	0.0123	0.00133	0.00632	0.00489	0.00239
Mercury	µg/L	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Molybdenum	µg/L	-	6.7	3.1	1.5	0.2 J	3.1	2.2	1.9	3.2
Selenium	µg/L	-	0.5 U	0.5 U	0.5 U	0.41 J	0.5 U	0.5 U	0.67	0.5 U
Sulfate	mg/L	-	169	40.0	49.0	42.7	17.4	48.3	60.3	19.3
Thallium	µg/L	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.04 J	0.2 U	0.2 U
Total Dissolved Solids	mg/L	-	450	380	380	380	390	420	400	460
pH	SU	6.8	-	6.6	7.2	6.3	6.6	6.6	6.9	7.4

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 Plant - Bottom Ash Pond**

Parameter	Unit	MW-1602I	MW-1602I	MW-1603D	MW-1603I	MW-1603S	MW-1604D	MW-1604I	MW-1604S	MW-1605D	MW-1605I
		11/9/2021	11/10/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/10/2021
Antimony	µg/L	-	0.04 J	0.03 J	0.99	0.04 J	0.1 U	0.17	0.05 J	0.1 U	0.03 J
Arsenic	µg/L	-	27.7	14.1	220	0.19	18.3	56.7	0.20	21.3	17.5
Barium	µg/L	-	97.2	121	147	10.7	267	102	11.7	450	120
Beryllium	µg/L	-	0.05 U	0.05 U	0.077	0.05 U	0.05 U	0.025 J	0.05 U	0.05 U	0.05 U
Boron	mg/L	-	0.048 J	0.031 J	0.043 J	1.87	0.021 J	0.079	0.564	0.014 J	0.040 J
Cadmium	µg/L	-	0.02 U	0.02 U	0.006 J	0.022	0.02 U	0.005 J	0.018 J	0.02 U	0.023
Calcium	mg/L	-	68.4	81.1	77.3	42.0	69.3	56.9	65.9	76.0	81.1
Chloride	mg/L	-	23.0	26.3	33.3	43.9	15.3	35.7	70.0	23.3	36.3
Chromium	µg/L	-	0.22	0.21	0.47	0.21	0.20	0.53	0.24	0.27	0.27
Cobalt	µg/L	-	1.10	0.247	3.49	0.439	0.049	0.478	0.271	0.057	1.32
Combined Radium	pCi/L	-	1.31	1.78	1.27	0.67	1.43	2.41	1.12	1.17	2.54
Fluoride	mg/L	-	0.31	0.30	0.41	0.94	0.29	0.40	0.92	0.22	0.21
Lead	µg/L	-	0.2 U	0.2 U	1.54	0.2 U	0.2 U	0.17 J	0.2 U	0.2 U	0.26
Lithium	mg/L	-	0.00505	0.00321	0.00598	0.00381	0.00148	0.00539	0.00870	0.00154	0.00518
Mercury	µg/L	-	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Molybdenum	µg/L	-	2.2	3.3	6.2	0.4 J	2.5	2.2	2.9	1.9	1.3
Selenium	µg/L	-	0.5 U	0.5 U	0.28 J	0.12 J	0.5 U	0.5 U	0.13 J	0.5 U	0.5 U
Sulfate	mg/L	-	57.0	31.5	58.8	145	18.6	77.2	92.7	37.8	106
Thallium	µg/L	-	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Total Dissolved Solids	mg/L	-	370	380	390	410	320	400	470	370	470
pH	SU	6.9	-	6.8	6.7	6.4	7.3	7.5	6.9	7.4	7.5

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 Plant - Bottom Ash Pond**

Parameter	Unit	MW-1605S	MW-1606D	MW-1606I	MW-1606S	MW-1701D	MW-1701I	MW-1701S	MW-1702D	MW-1702I	MW-1702S
		11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021
Antimony	µg/L	0.05 J	0.1 U	0.1 U	0.03 J	0.1 U	0.02 J	0.03 J	0.03 J	0.06 J	0.02 J
Arsenic	µg/L	0.46	18.1	12.2	0.18	9.55	7.42	0.38	35.9	54.4	0.30
Barium	µg/L	6.29	488	55.6	13.6	59.6	39.7	11.7	204	110	4.15
Beryllium	µg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Boron	mg/L	0.476	0.017 J	0.012 J	0.021 J	0.023 J	0.018 J	0.016 J	0.015 J	0.014 J	0.029 J
Cadmium	µg/L	0.041	0.02 U	0.02 U	0.034	0.02 U	0.02 U	0.011 J	0.007 J	0.006 J	0.017 J
Calcium	mg/L	71.3	84.6	62.5	51.1	69.1	64.3	58.6	79.1	72.7	34.6
Chloride	mg/L	50.7	27.5	19.3	32.5	15.1	13.4	19.4	30.3	28.9	13.4
Chromium	µg/L	1.39	0.24	0.29	0.52	0.28	0.30	0.23	0.29	0.22	0.51
Cobalt	µg/L	0.378	0.043	1.04	0.054	1.52	0.872	0.111	0.534	1.54	0.026
Combined Radium	pCi/L	1.19	1.76	1.8	0.72	1.89	1.09	0.62	2.42	1.35	0.62
Fluoride	mg/L	0.54	0.19	0.23	0.52	0.34	0.43	0.39	0.20	0.24	0.59
Lead	µg/L	0.2 U	0.2 U	0.2 U	0.09 J	0.06 J	0.09 J	0.2 U	0.09 J	0.2 U	0.2 U
Lithium	mg/L	0.0100	0.00049	0.00313	0.00839	0.00608	0.00579	0.00507	0.00417	0.00426	0.00152
Mercury	µg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Molybdenum	µg/L	1.8	1.7	1.2	1.3	1.3	1.0	0.7	1.9	1.9	1.4
Selenium	µg/L	0.27 J	0.5 U	0.5 U	1.36	0.5 U	0.5 U	0.40 J	0.5 U	0.5 U	1.74
Sulfate	mg/L	173	31.0	39.2	42.4	38.7	32.1	15.6	35.0	40.0	17.0
Thallium	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Total Dissolved Solids	mg/L	590	360	310	440	360	310	300	390	380	260
pH	SU	7.0	7.1	7.6	7.2	6.8	6.4	6.5	6.7	6.6	7.1

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: Appendix IV Groundwater Protection Standards  
Rockport Plant - Bottom Ash Pond**

Constituent Name	MCL	CCR Rule-Specified	Calculated UTL	GWPS
Antimony, Total (mg/L)	0.00600		0.000440	0.00600
Arsenic, Total (mg/L)	0.0100		0.0727	0.0727
Barium, Total (mg/L)	2.00		0.997	2.00
Beryllium, Total (mg/L)	0.00400		0.000106	0.00400
Cadmium, Total (mg/L)	0.00500		0.000280	0.00500
Chromium, Total (mg/L)	0.100		0.00205	0.100
Cobalt, Total (mg/L)	n/a	0.00600	0.00334	0.00600
Combined Radium, Total (pCi/L)	5.00		2.47	5.00
Fluoride, Total (mg/L)	4.00		0.700	4.00
Lead, Total (mg/L)	n/a	0.0150	0.00497	0.0150
Lithium, Total (mg/L)	n/a	0.0400	0.0380	0.0400
Mercury, Total (mg/L)	0.00200		0.00000500	0.00200
Molybdenum, Total (mg/L)	n/a	0.100	0.00867	0.100
Selenium, Total (mg/L)	0.0500		0.00380	0.0500
Thallium, Total (mg/L)	0.00200		0.000200	0.00200

Notes:

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

GWPS = Groundwater Protection Standard

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

Grey cells indicate the GWPS is based on the calculated UTL, which is higher than the MCL or CCR Rule-specified value.

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

Analyte	Unit	Description	MW-1002	MW-1602D	MW-1602I	MW-1603D	MW-1603I	MW-1603S	MW-1604D	MW-1604I
			11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021	11/9/2021
Boron	mg/L	Interwell Background Value (UPL)	0.208							
		Analytical Result	<b>1.70</b>	0.051	0.048	0.031	0.043	<b>1.87</b>	0.021	0.079
Calcium	mg/L	Intrawell Background Value (UPL)	85.6	82.9	90.9	97.2	105	85.0	77.6	89.2
		Analytical Result	42.2	67.6	68.4	81.1	77.3	42.0	69.3	56.9
Chloride	mg/L	Interwell Background Value (UPL)	46.4							
		Analytical Result	<b>59.4</b>	<b>86.9</b>	23.0	26.3	33.3	43.9	15.3	35.7
Fluoride	mg/L	Interwell Background Value (UPL)	0.700							
		Analytical Result	<b>0.96</b>	0.35	0.31	0.30	0.41	<b>0.94</b>	0.29	0.40
pH	SU	Intrawell Background Value (UPL)	8.0	8.2	7.9	7.9	8.1	7.7	7.8	8.1
		Intrawell Background Value (LPL)	5.6	6.3	6.6	6.3	6.6	6.2	6.4	6.6
		Analytical Result	6.8	7.4	6.9	6.8	6.7	6.4	7.3	7.5
Sulfate	mg/L	Interwell Background Value (UPL)	76.0							
		Analytical Result	<b>169</b>	19.3	57.0	31.5	58.8	<b>145</b>	18.6	<b>77.2</b>
Total Dissolved Solids	mg/L	Interwell Background Value (UPL)	454							
		Analytical Result	450	<b>460</b>	370	380	390	410	320	400

Analyte	Unit	Description	MW-1604S	MW-1605D	MW-1605I	MW-1605S	MW-1606D	MW-1606I	MW-1606S	
			11/9/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	11/10/2021	
Boron	mg/L	Interwell Background Value (UPL)	0.208							
		Analytical Result	<b>0.564</b>	0.014	0.040	<b>0.476</b>	0.017	0.012	0.021	
Calcium	mg/L	Intrawell Background Value (UPL)	118	97.0	107	91.4	91.2	91.9	76.1	
		Analytical Result	65.9	76.0	81.1	71.3	84.6	62.5	51.1	
Chloride	mg/L	Interwell Background Value (UPL)	46.4							
		Analytical Result	<b>70.0</b>	23.3	36.3	<b>50.7</b>	27.5	19.3	32.5	
Fluoride	mg/L	Interwell Background Value (UPL)	0.700							
		Analytical Result	<b>0.92</b>	0.22	0.21	0.54	0.19	0.23	0.52	
pH	SU	Intrawell Background Value (UPL)	8.2	7.5	7.6	7.6	8.4	8.5	7.9	
		Intrawell Background Value (LPL)	6.6	6.7	6.7	6.6	6.9	6.3	6.7	
		Analytical Result	6.9	7.4	7.5	7.0	7.1	7.6	7.2	
Sulfate	mg/L	Interwell Background Value (UPL)	76.0							
		Analytical Result	<b>92.7</b>	37.8	<b>106</b>	<b>173</b>	31.0	39.2	42.4	
Total Dissolved Solids	mg/L	Interwell Background Value (UPL)	454							
		Analytical Result	<b>470</b>	370	<b>470</b>	<b>590</b>	360	310	440	

Notes:

UPL: Upper prediction limit

LPL: Lower prediction limit

**Bold values exceed the background value.**

Background values are shaded gray.

- : Not Sampled

## ATTACHMENT A

Certification by Qualified Professional Engineer

**Certification by Qualified Professional Engineer**

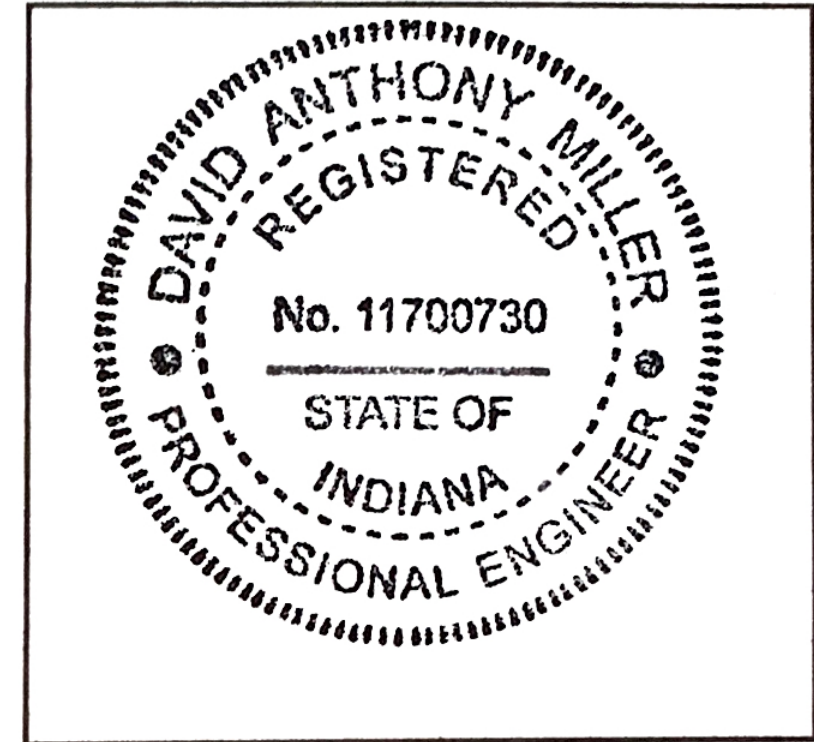
I certify that the selected and above described statistical method is appropriate for evaluating the groundwater monitoring data for the Rockport Bottom Ash Pond CCR management area and that the requirements of 40 CFR 257.93(f) have been met.

DAVID ANTHONY MILLER

Printed Name of Licensed Professional Engineer

David Anthony Miller

Signature



11700730

License Number

INDIANA

Licensing State

03.03.22

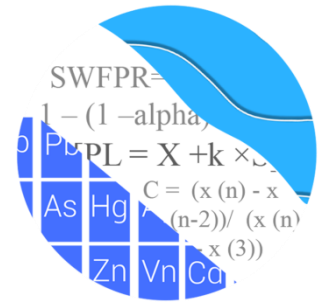
Date

**ATTACHMENT B**  
**Statistical Analysis Output**

# GROUNDWATER STATS CONSULTING

January 18, 2022

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



Re: Rockport Bottom Ash Pond  
Background Update & November 2021 Assessment Monitoring Analysis

Dear Ms. Kreinberg,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the background update for Appendix III constituents as well as the statistical evaluation of Appendix IV constituents for 2021 groundwater data at 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 United States Environmental Protection Agency (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 to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting. 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 plots for all well/constituent pairs are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at both upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs.

Due to varying detection limits in background data sets due to improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects. In some cases, the reporting limit provided by the laboratory contains varying limits for a given parameter; therefore, the substitution may differ from well to well. This generally gives the most conservative limit in each case. However, in the time series plots, the most recent reporting limit is substituted for non-detects across all wells for a given parameter since the wells are plotted as a group.

For regulatory comparison of current observations against statistical limits for Appendix III constituents, the annual site-wide false positive rate is based on the USEPA Unified Guidance (2009) recommendation of 10% (5% for each semi-annual sample event). Power curves are included with this report to demonstrate that the selected statistical methods provide sufficient power to detect a change at any of the downgradient wells which complies with the USEPA Unified Guidance recommendation. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following:

Semi-Annual Sampling

Intrawell Prediction Limits = 1-of-2 resample plan

Interwell Prediction Limits = 1-of-2 resample plan

# Constituents,  $c=7$

# Downgradient wells,  $w=15$



Note that previous analyses utilized a 1-of-3 resample plan for parameters that use intrawell statistical methods; however, during this analysis, power curves demonstrate that the increased number of samples in background provides sufficient power using the 1-of-2 resample plan.

### **Summary of Statistical Methods:**

- 1) Intrawell prediction limits, combined with a 1-of-2 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 non-detects, 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. Non-detects are handled as follows.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect 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% non-detects.

Note that values shown on data pages reflect raw data as reported by the laboratory. When non-detects have been substituted in the statistical analysis with one-half of the most reporting limit due to data sets containing <15% non-detects as described above, values are displayed as the original reporting limit.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to

accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. In some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

## **Background Update Summaries**

### **November 2020**

As mentioned above, in the intrawell case, data for all wells and constituents are re-evaluated when a minimum of 4 new data points are available. Both calcium and pH lacked sufficient data to update background, and therefore, intrawell prediction limits for these constituents were not updated. Intrawell prediction limits, combined with a 1-of-3 resample plan, used all historical data through September 2019 to evaluate compliance samples, and a summary of those findings was submitted at that time.

For parameters tested using interwell analyses, the time series graphs indicated stable data at each upgradient well; therefore, no trend tests were performed on these data. All interwell prediction limits, combined with a 1-of-2 resample plan, were updated with upgradient well data through November 2020 and time series plots accompanied the updated limits.

### **January 2022**

#### Outlier Analysis

Prior to updating background data during this analysis, Tukey's outlier test and visual screening were used to re-evaluate data through May 2021 at all wells for parameters using intrawell prediction limits (calcium and pH) and through November 2021 at all upgradient wells for parameters utilizing interwell prediction limits (boron, chloride, fluoride, sulfate, and TDS). For calcium and pH, Tukey's outlier test on all wells identified one value for calcium as an outlier and several values for pH. All values were flagged as outliers; however, only the highest and lowest values were flagged for pH at well

MW-1606D as the value of 8.37 SU appeared to be similar to other concentrations within this well. No changes to previously flagged outliers were made.

For parameters which use interwell prediction limits, Tukey's outlier test identified values for boron, chloride, fluoride, sulfate, and TDS but the majority of these values were similar to remaining observations within each respective record and were, therefore, not flagged in the database. No new values were flagged as outliers and no changes were made to previously flagged outliers for Appendix III parameters using interwell statistical methods. Tukey's outlier test results for all Appendix III parameters are shown in Figure C. A list of all flagged values follows this report.

### Intrawell - Mann-Whitney Evaluation

For constituents requiring intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through September 2019 to the new compliance samples through May 2021 at each well to evaluate whether the groups are statistically different at the 99% confidence level (Figure D). When no statistically significant difference is found, background data may be updated with compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found between the two groups for the following well/constituent pairs:

Increase:

- Calcium: MW-1606D

Decrease:

- Calcium: MW-1603S, MW-1604I, and MW-1604S
- pH: MW-1605S

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data, unless it can be reasonably justified that the change in concentrations reflects a naturally occurring shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

Regarding calcium in downgradient well MW-1606D, which has a statistically significant increase in median, the background record was updated with compliance samples since the magnitude of the increase was marginal compared to the historical measurements,

and concentrations are lower than those reported upgradient of the facility suggesting changes may be due to natural variation in groundwater quality.

Regarding well/constituent pairs with statistically significant decreases in medians, the background datasets were updated through May 2021 for the following well/constituent pairs in order to construct statistical limits that are conservative from a regulatory perspective:

- Calcium: MW-1604I and MW-1604S
- pH: MW-1605S

For the statistically significant decreasing median for calcium at downgradient well MW-1603S, the earlier portion of the background dataset was truncated to utilize only the most recent 9 measurements in order to construct statistical limits that are conservative (i.e. lower) from a regulatory perspective. These observations were lower than some historical values and appear more stable.

All records will be re-evaluated during the next background update. A list of well/constituent pairs using a truncated portion of their data follows this letter.

#### Intrawell - Prediction Limits

Intrawell prediction limits for calcium and pH, combined with a 1-of-2 resample plan, were constructed using all historical data through May 2021 (unless otherwise noted above) and a summary table of the updated limits follows this report (Figure E).

#### Interwell – Trend Test Evaluation

For parameters which are tested using interwell prediction limits, the Sen's Slope/Mann-Kendall trend test was used to test data in upgradient wells to determine whether concentrations are statistically increasing, decreasing or stable (Figure F). Statistically significant trends were identified for the following well/constituent pairs:

##### Increasing

- Chloride: MW-1701S
- Fluoride: MW-1600D, MW-1600I, MW-1601I, MW-1701I, and MW-1701S
- Sulfate: MW-1601S

#### Decreasing

- Boron: MW-1701I and MW-1702S
- Chloride: MW-1600D, MW-1601I, and MW-1601S
- Sulfate: MW-1701S
- TDS: MW-1600S

Since the magnitude of the trends identified for above mentioned well/constituent was marginal relative to the concentrations, no adjustments were required for these well/constituent pairs at this time. As more data are collected, all upgradient well data will be re-evaluated for possible deselection of earlier portion of the record if the measurements no longer represent present-day groundwater quality conditions.

#### Interwell – Prediction Limits

The interwell prediction limits for boron, chloride, fluoride, sulfate, and TDS, combined with a 1-of-2 resample plan, were constructed using all pooled upgradient data through November 2021. The summary table follows this letter (Figure G).

#### **Evaluation of Appendix IV Parameters – November 2021 Sampling Event**

Prior to evaluating Appendix IV parameters, upgradient well data are screened through both visual screening and Tukey's outlier test for potential outliers and extreme trending patterns that would lead to artificially elevated statistical limits. All flagged values may be seen on the Outlier Summary following this letter (Figure C) and no changes to previously flagged outliers were made.

For the current analysis, Tukey's outlier test on pooled upgradient well data through November 2021 identified outliers for arsenic, barium, combined radium 226 + 228, fluoride, and lithium. The values identified by Tukey's test were either similar to concentrations upgradient of the facility or were lower than the respective Maximum Contaminant Level (MCL); therefore, none of these values were flagged as outliers. Although not identified by Tukey's test, the highest value for cobalt in upgradient well MW-1600S was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective.

Additionally, downgradient well data through November 2021 were screened through visual screening using time series graphs. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is

particular justification for excluding them. No new outliers among downgradient wells were flagged during this analysis.

### Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data through October 2021 for Appendix IV parameters (Figure H). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution and 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. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

### Groundwater Protection Standards

These background limits were compared to the Maximum Contaminant Levels (MCLs) as shown 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

Confidence intervals were then constructed using all available data through October 2021 on downgradient wells for each of the Appendix IV parameters using the highest limit of the MCL, CCR-Rule specified, or background limit as the GWPS, 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. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. No confidence interval 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,

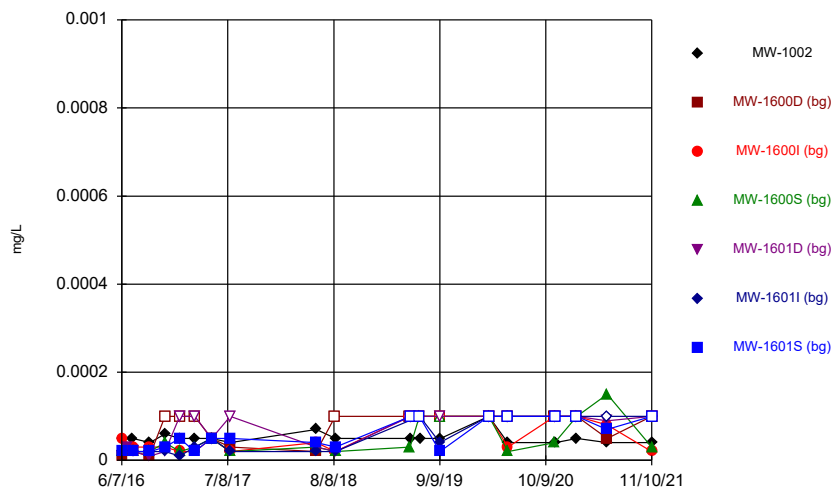


Andrew Collins  
Project Manager



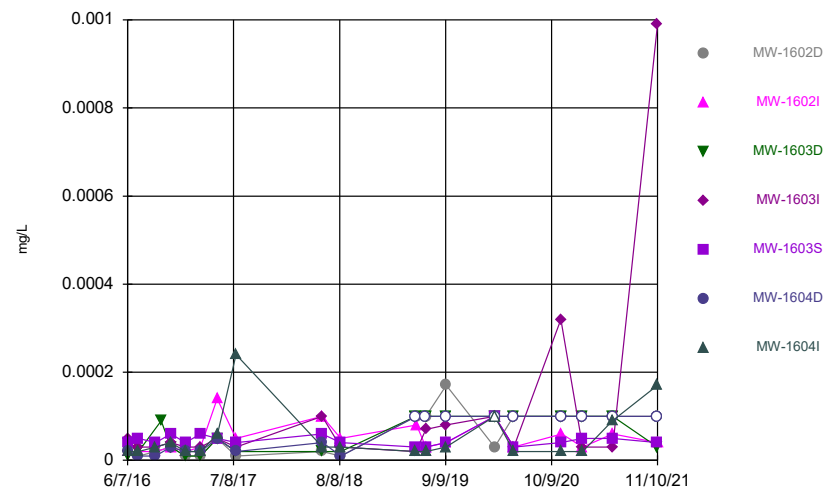
Kristina Rayner  
Groundwater Statistician

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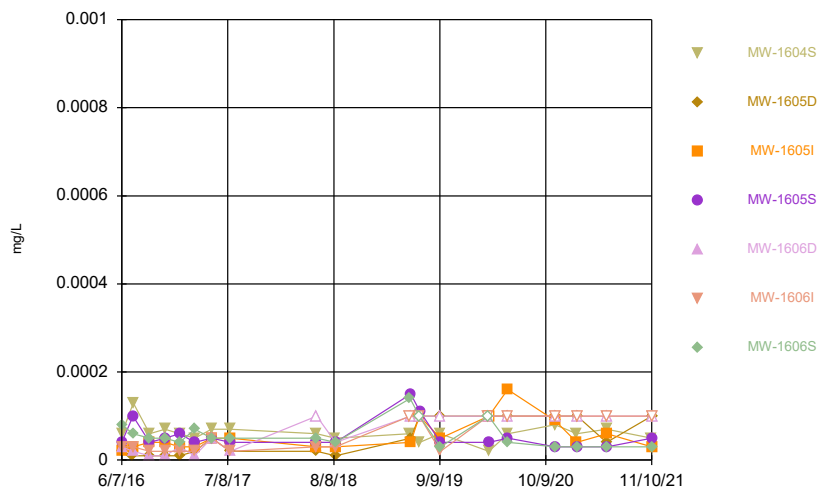
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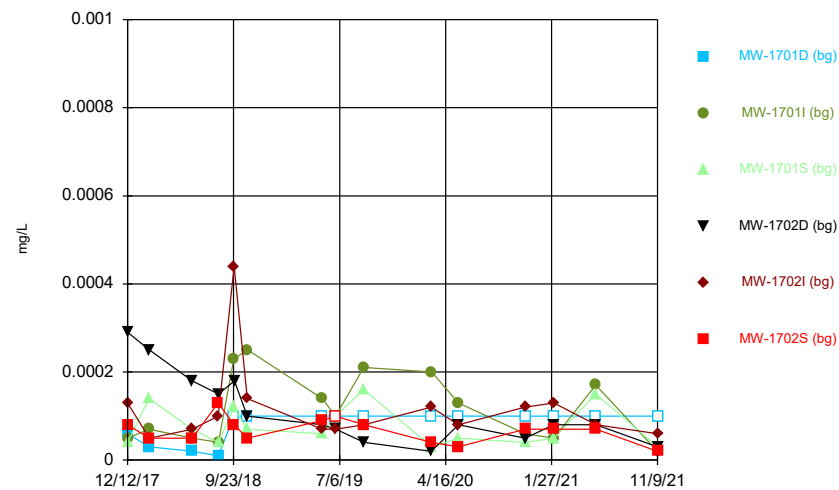
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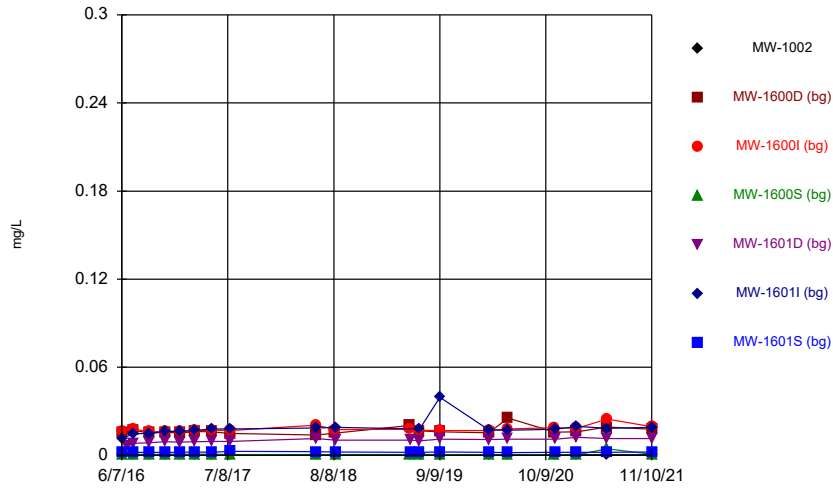
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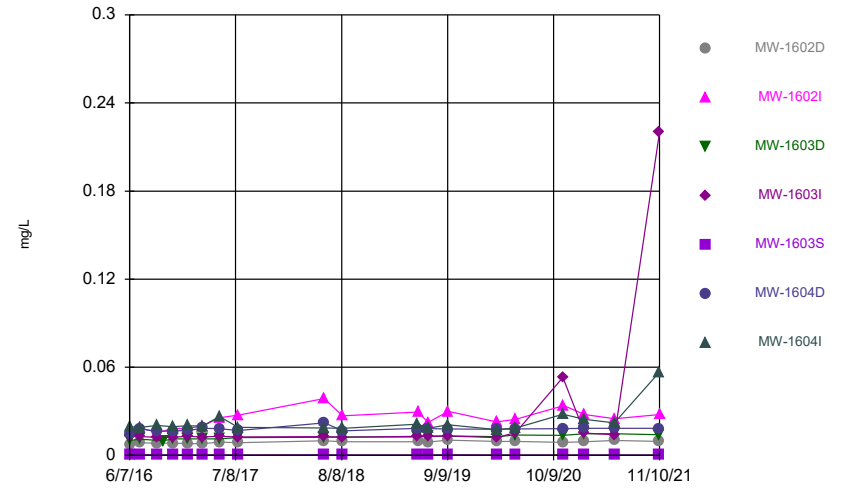


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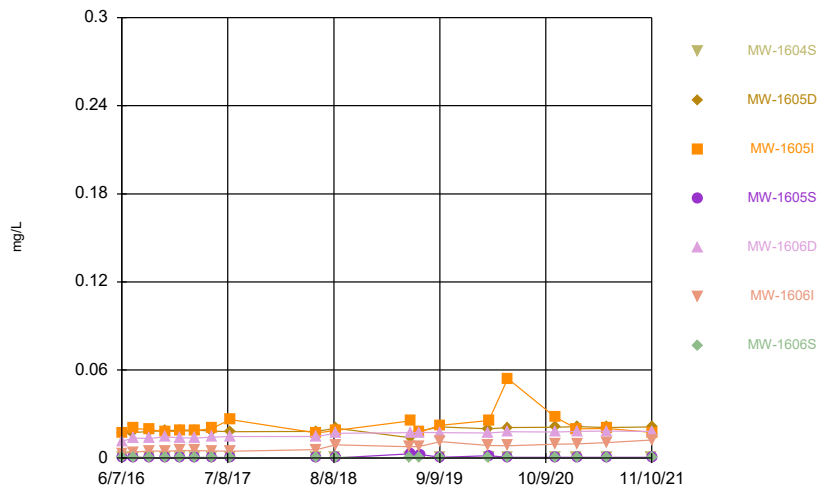
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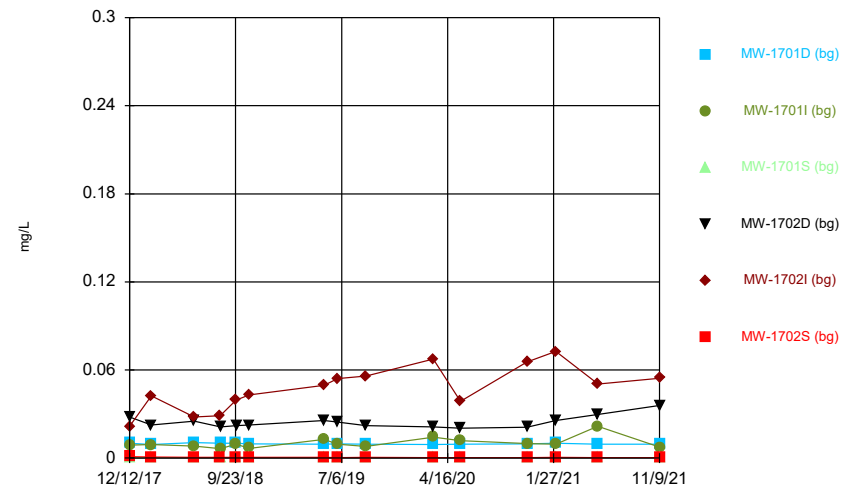
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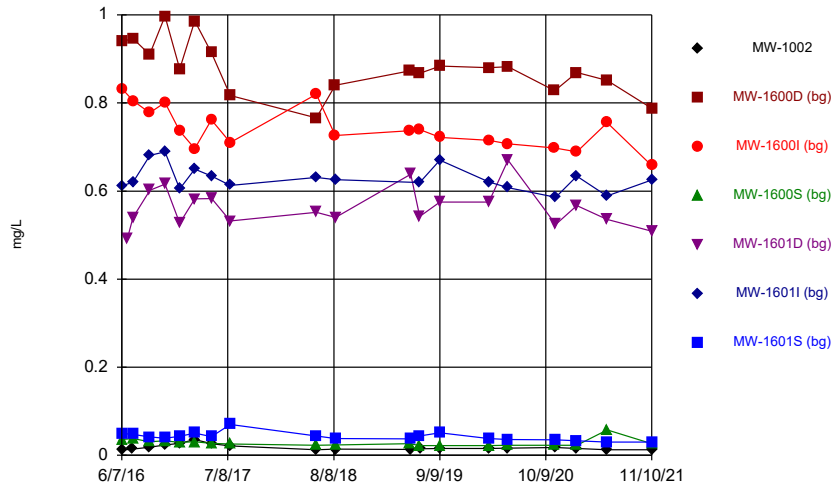
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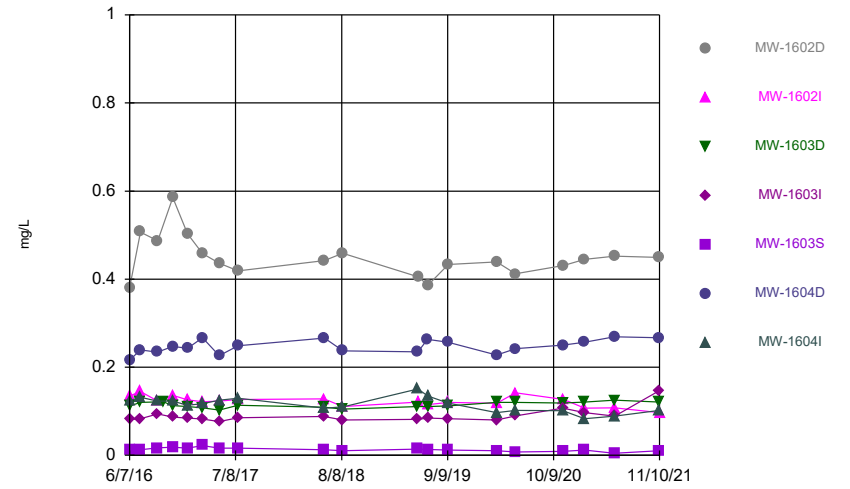
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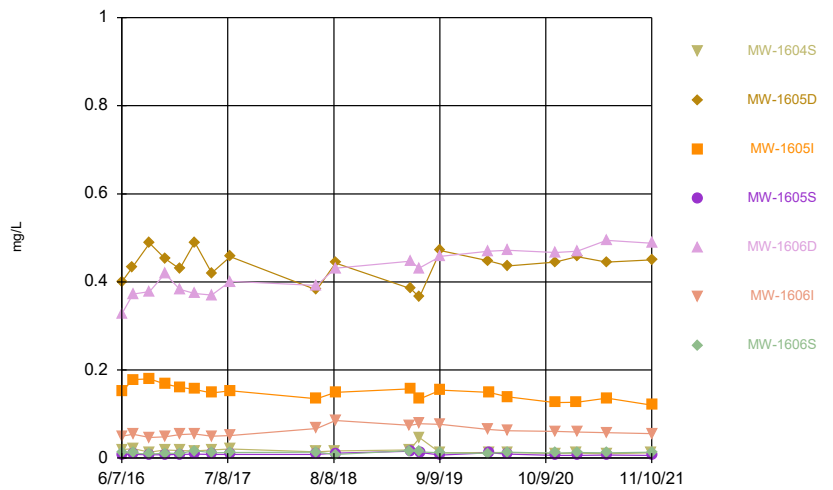
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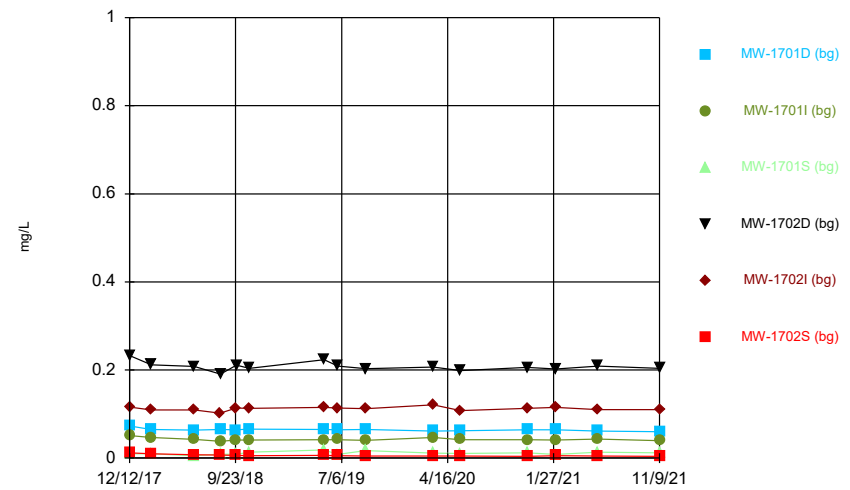
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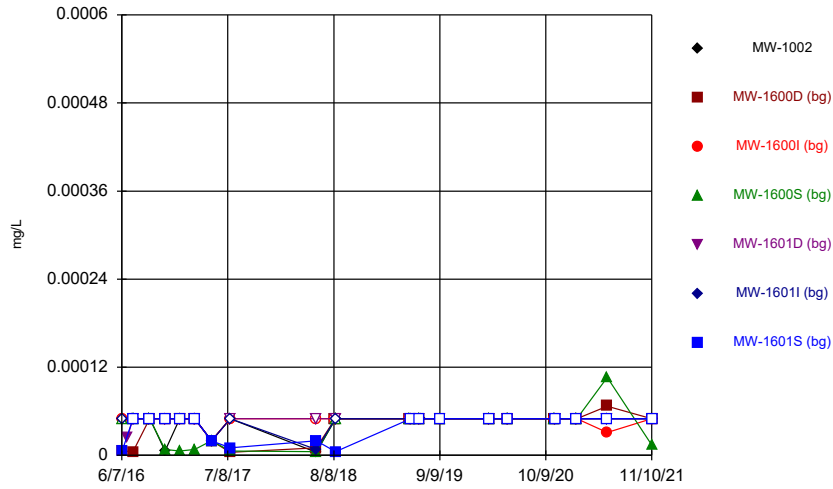
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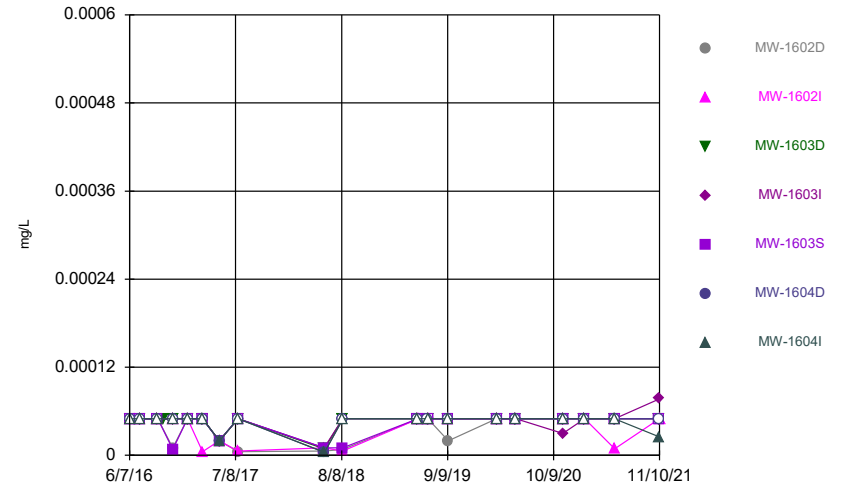
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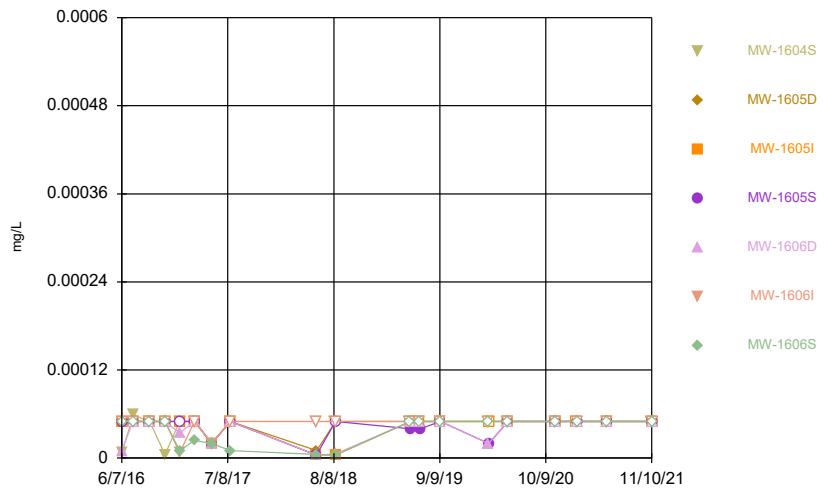
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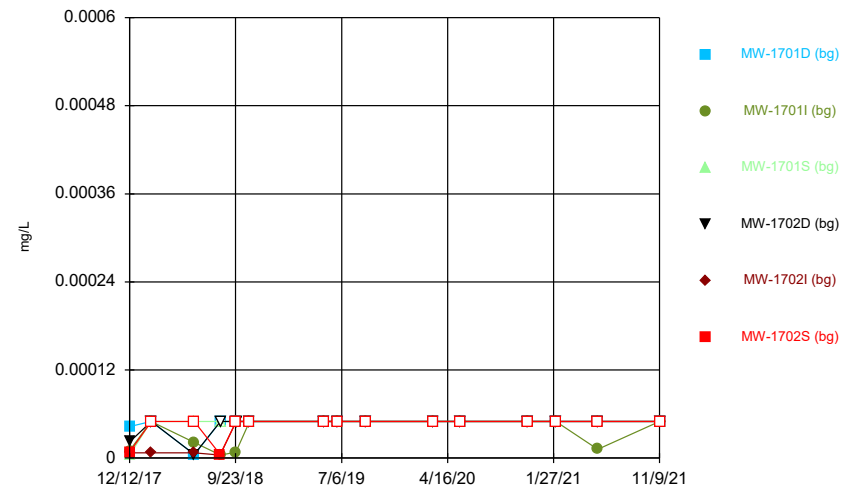
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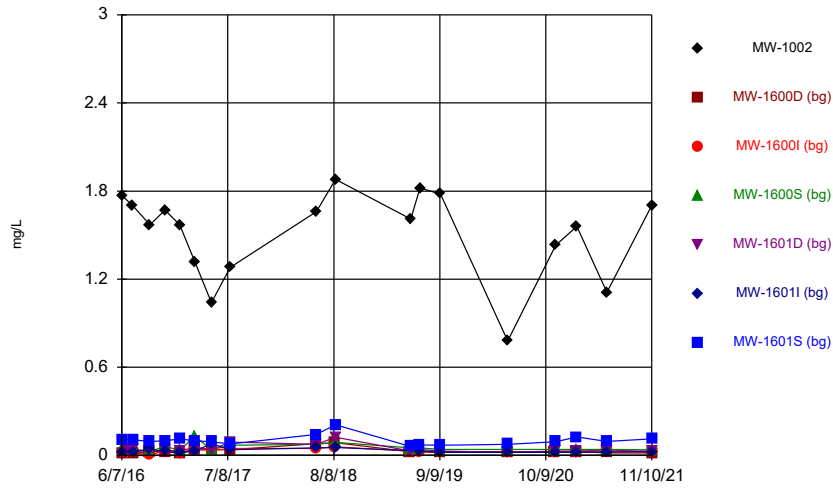
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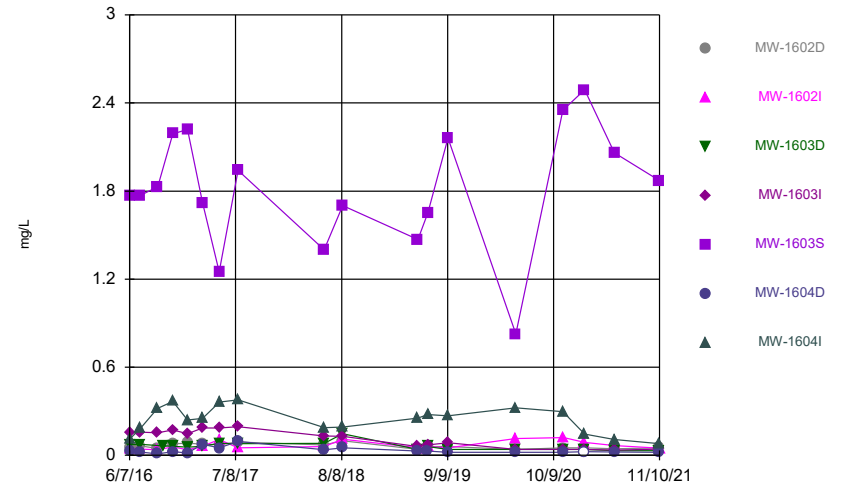
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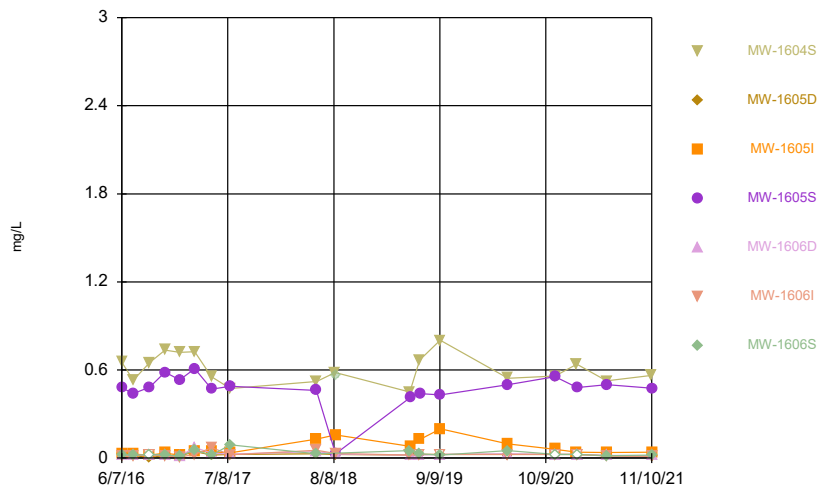
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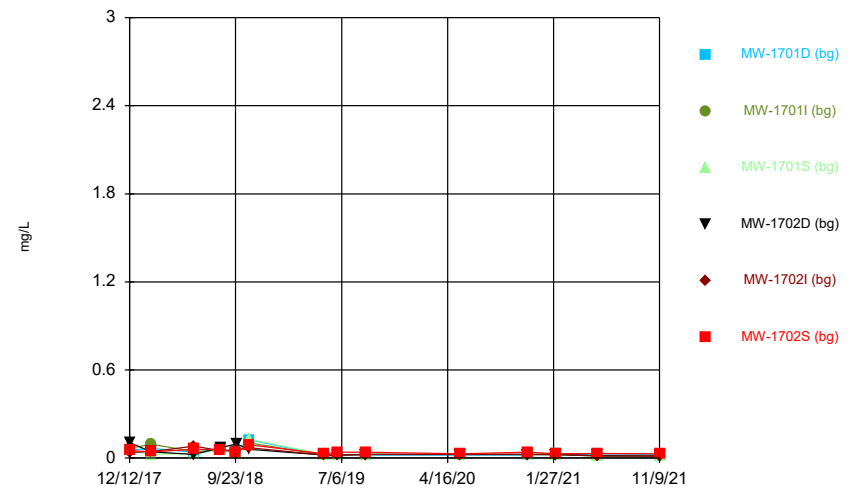
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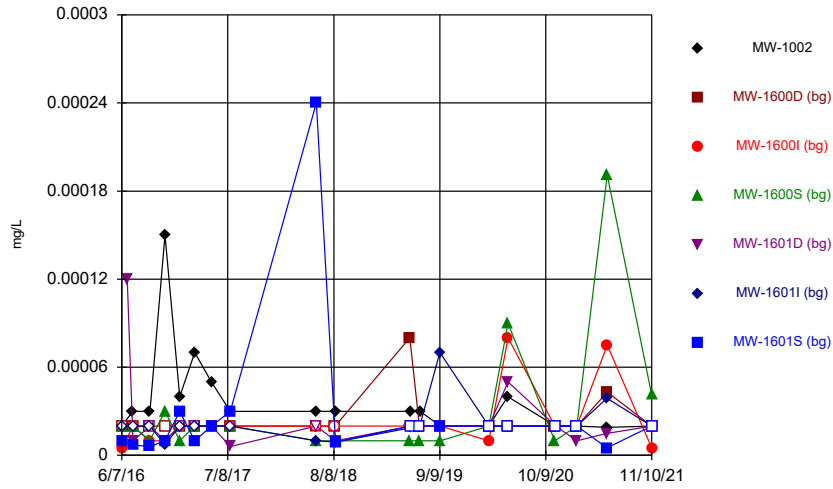
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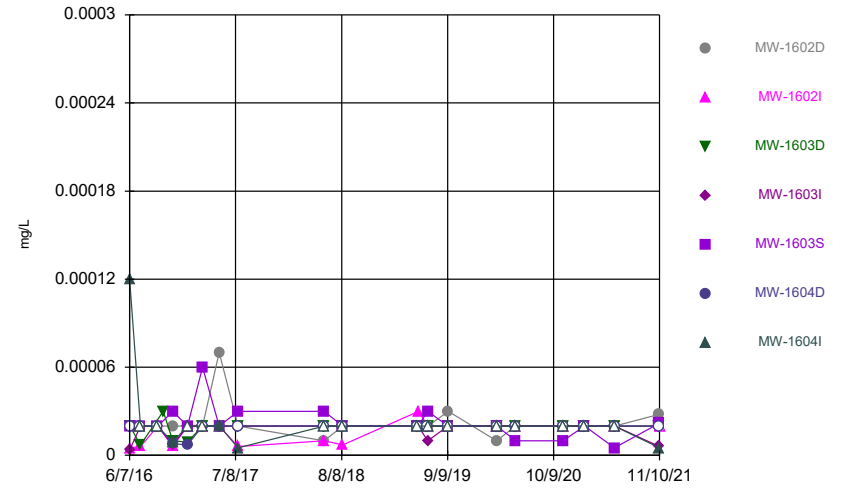
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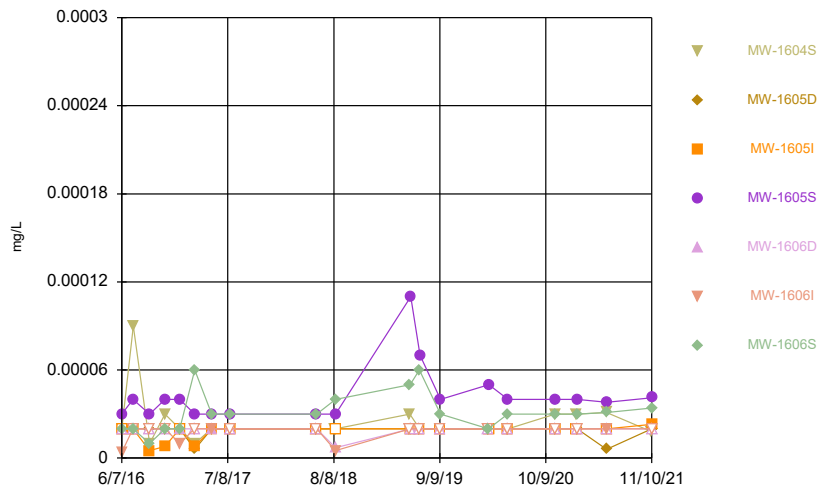
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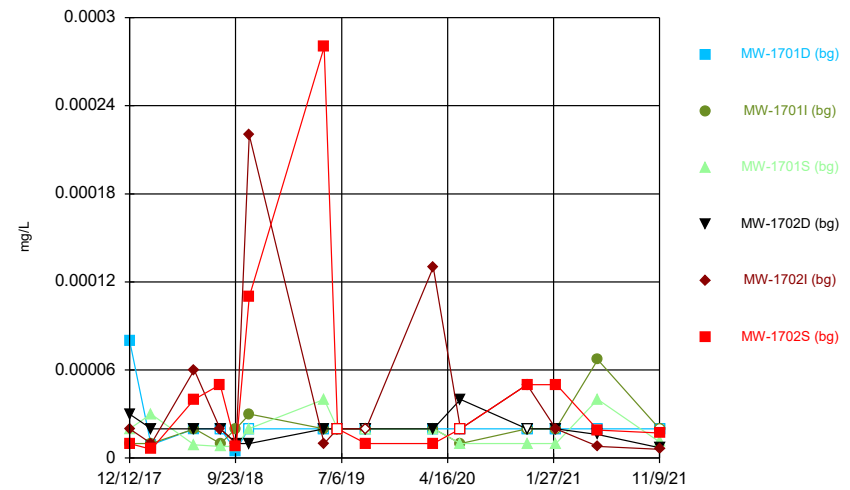
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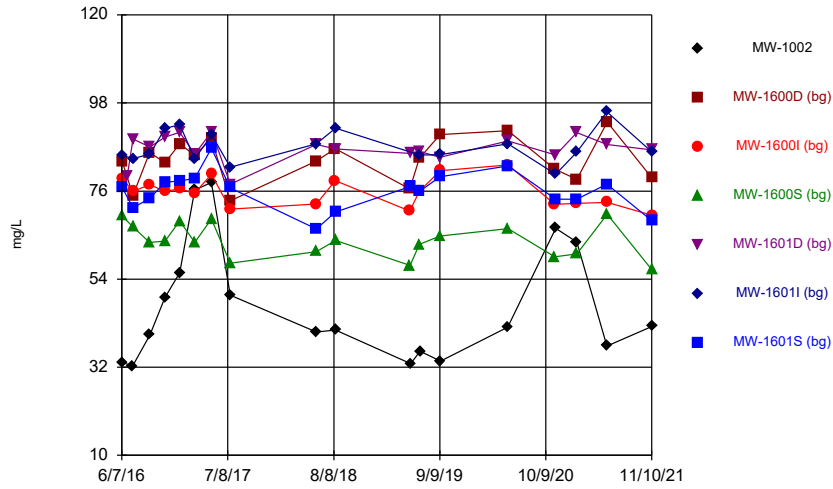
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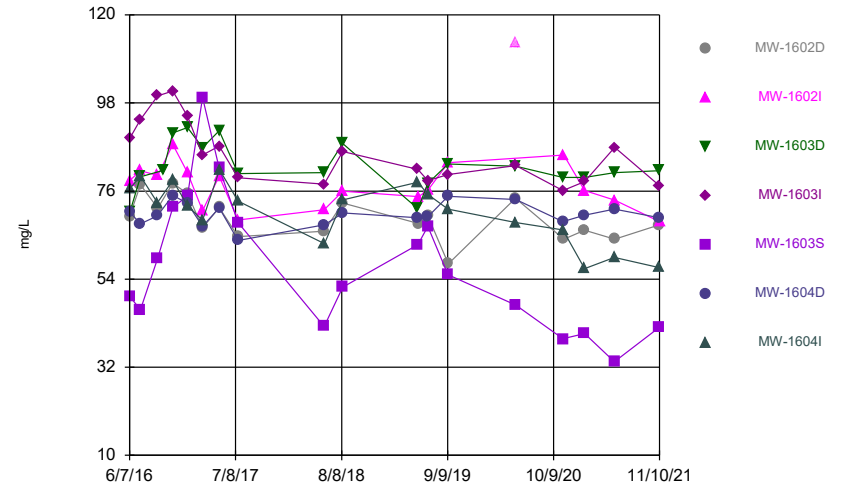
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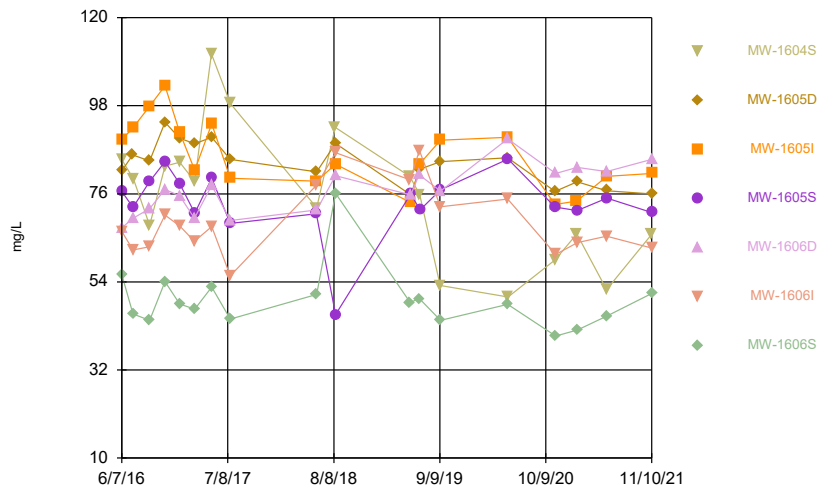
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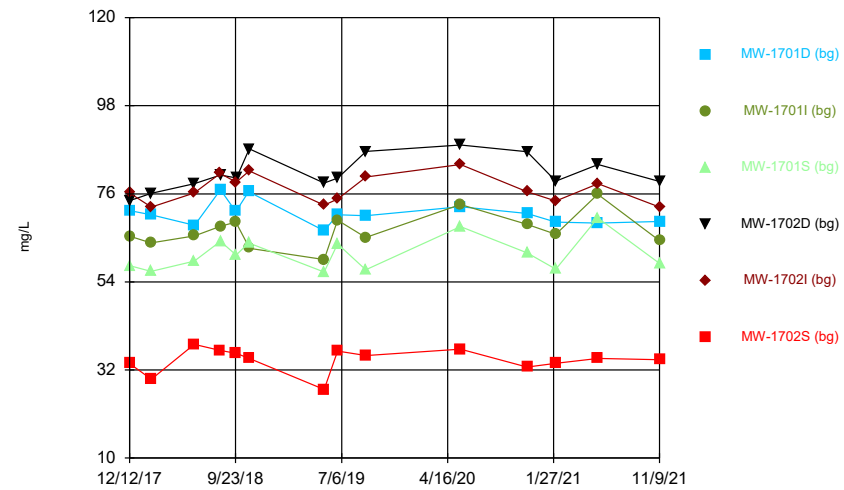
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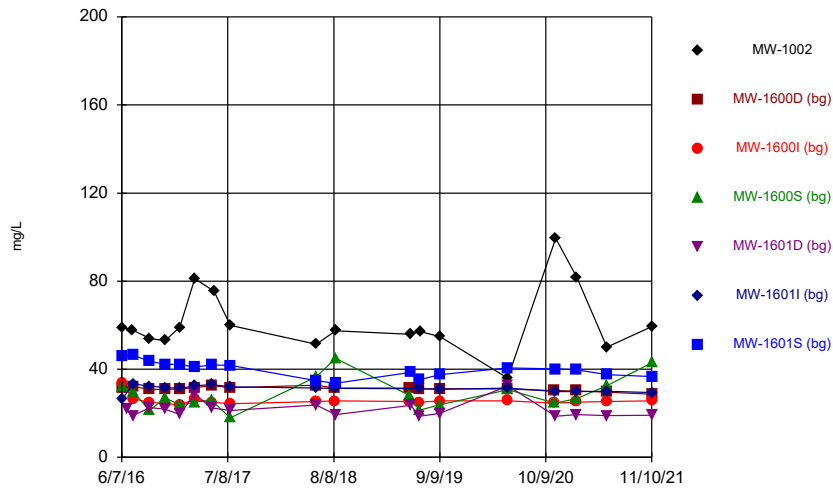
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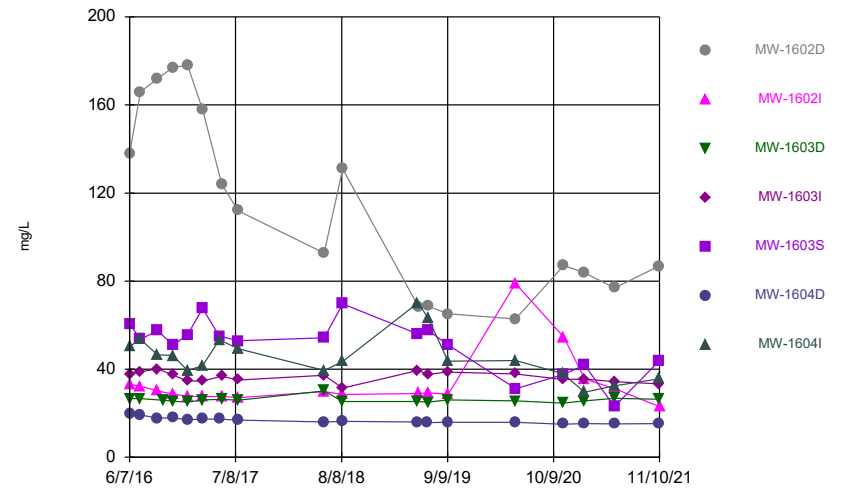
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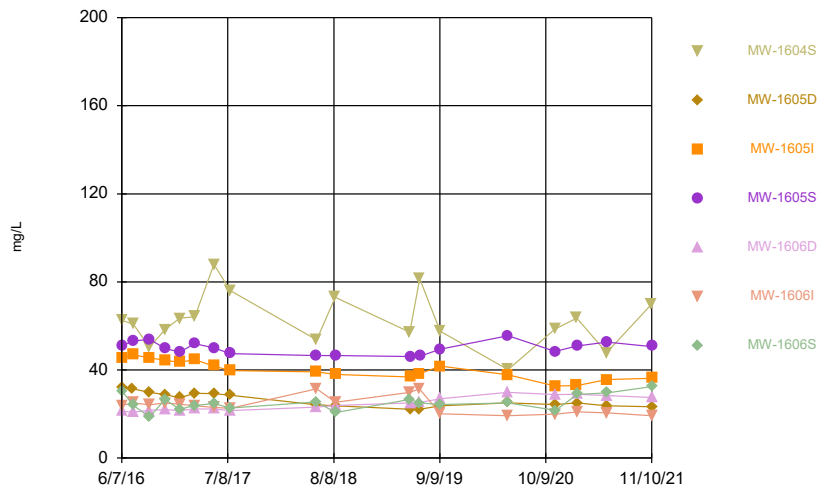
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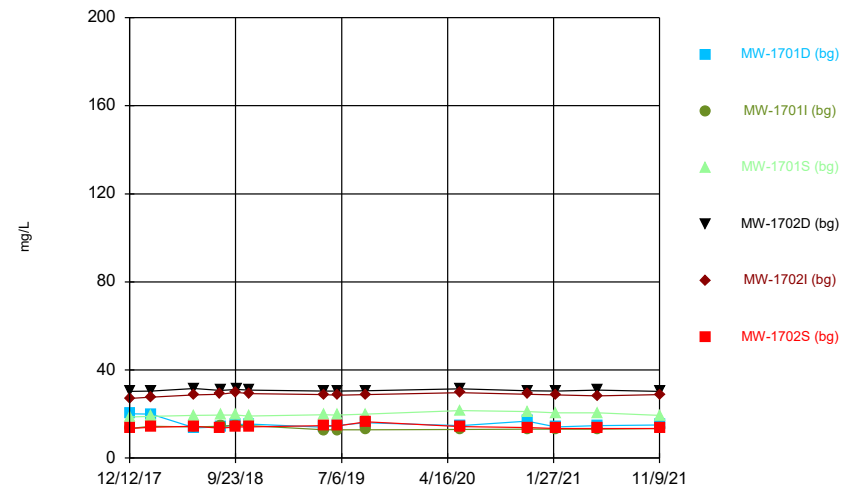
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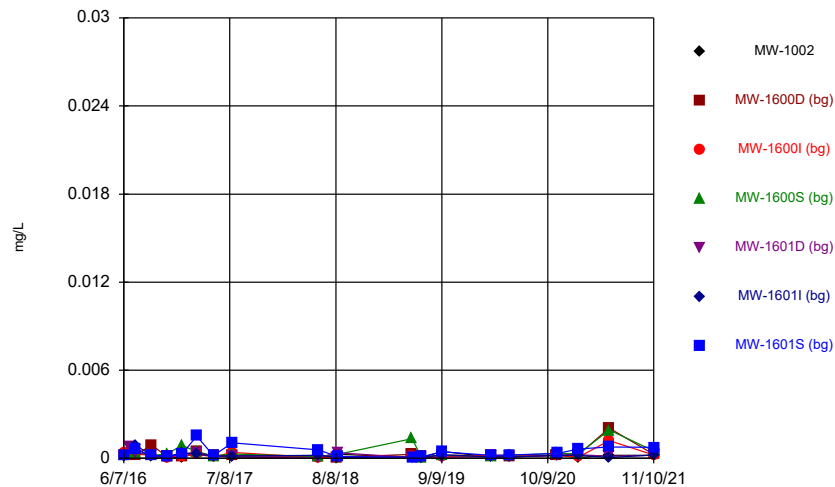
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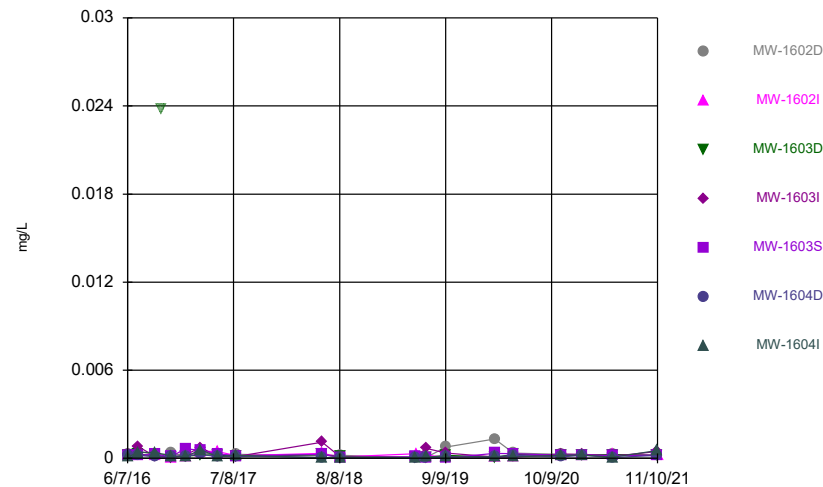
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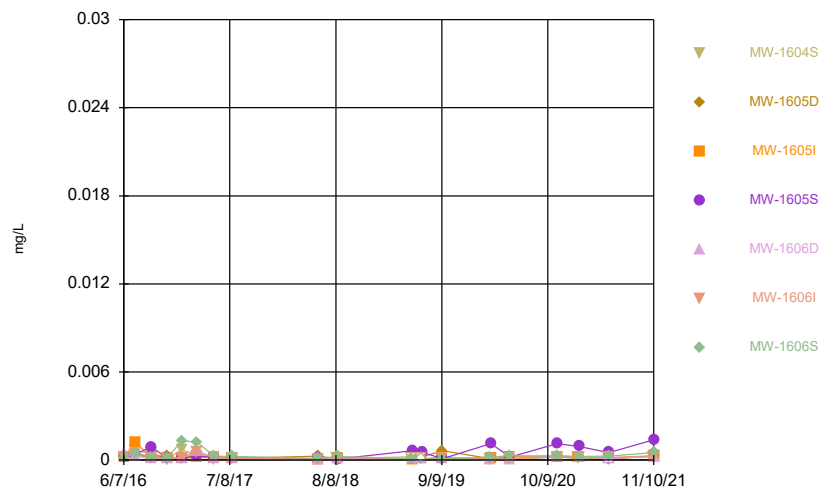
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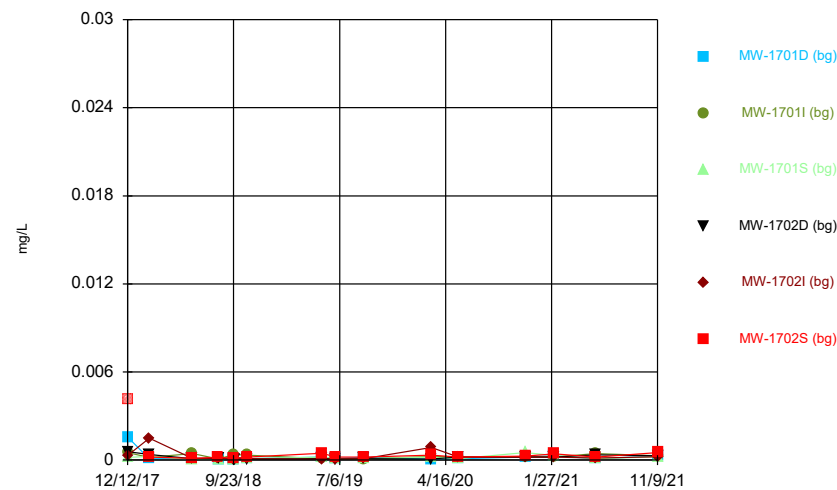
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Time Series



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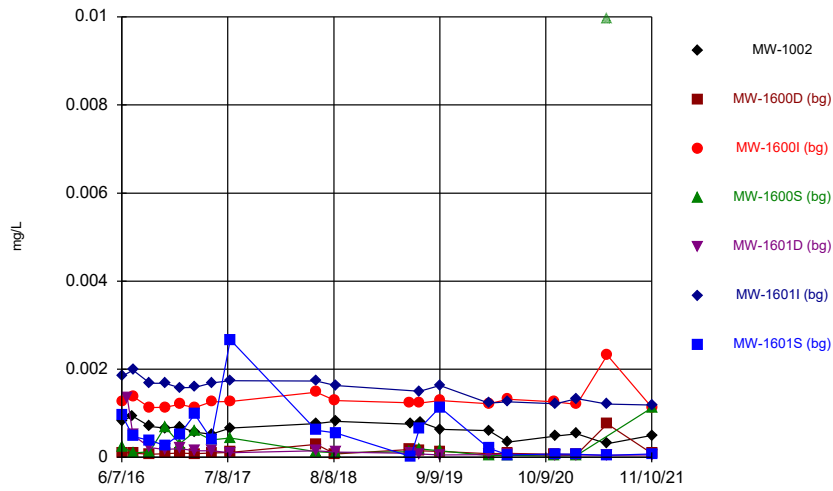
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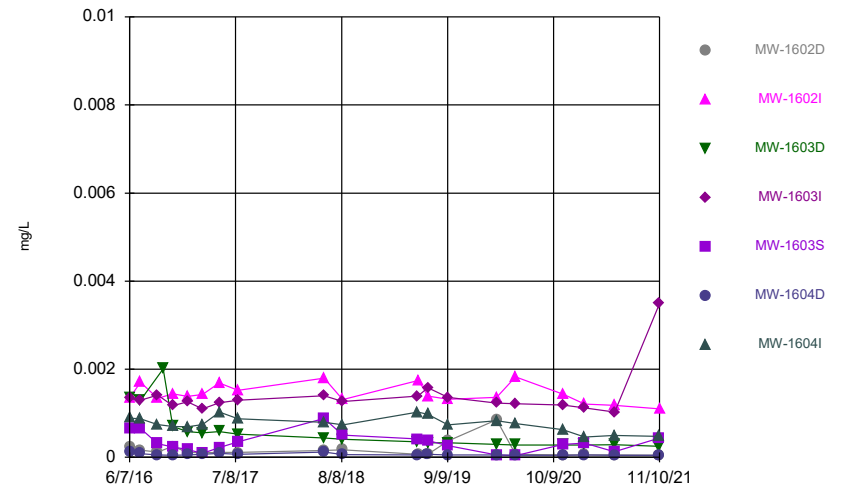


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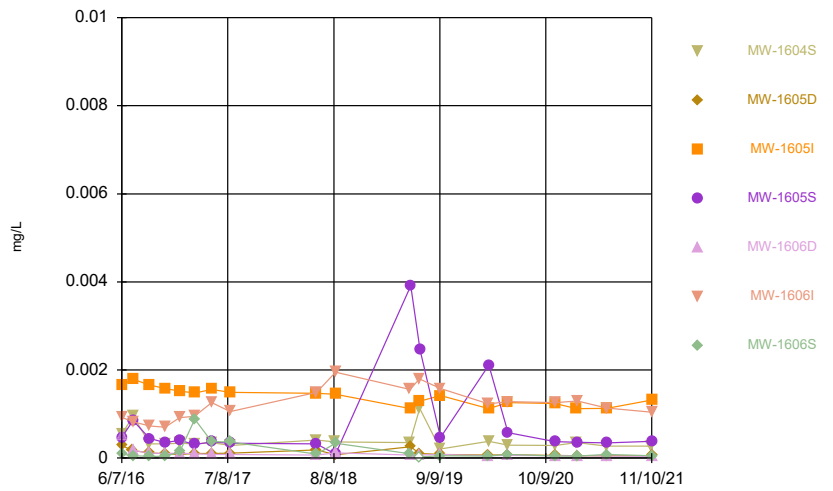
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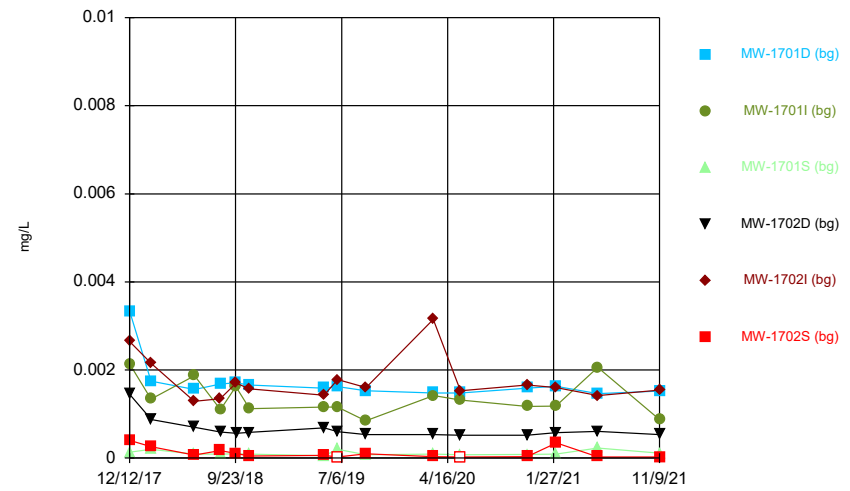
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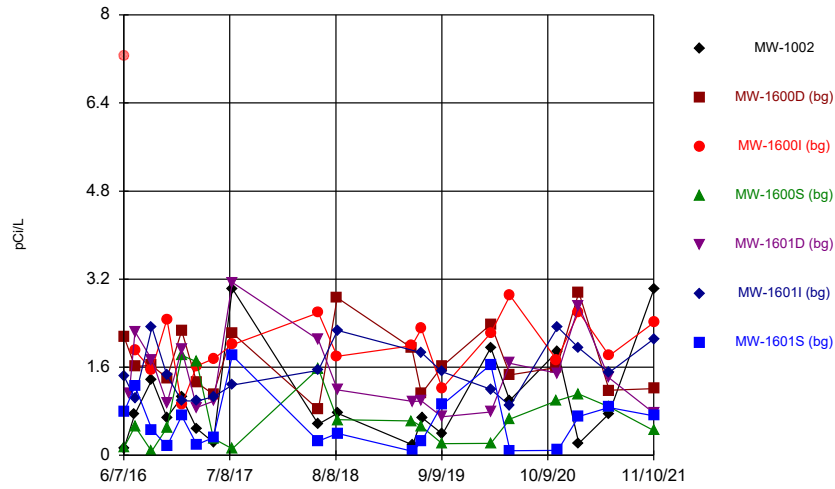
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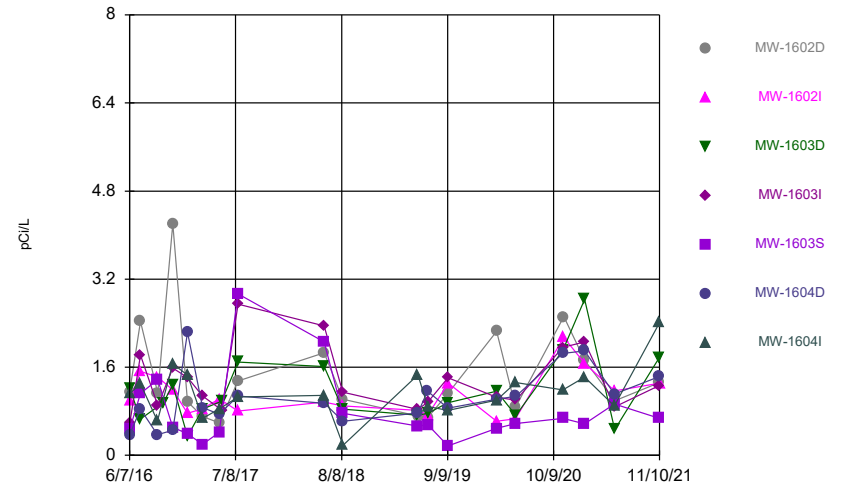
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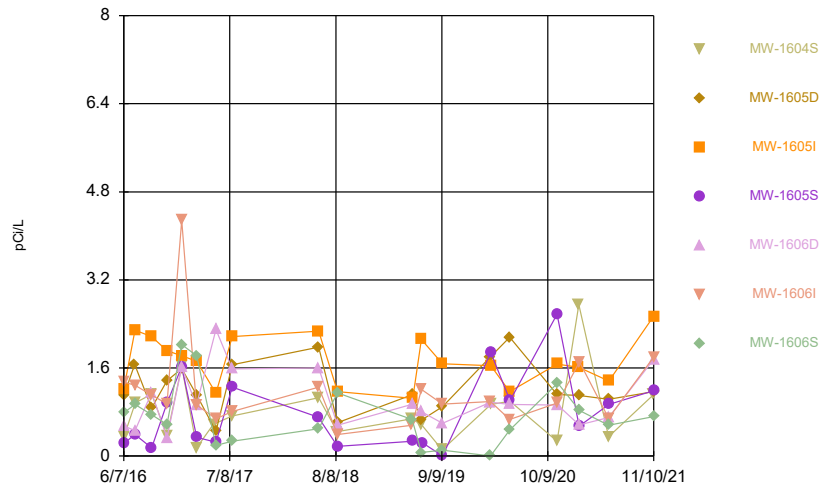
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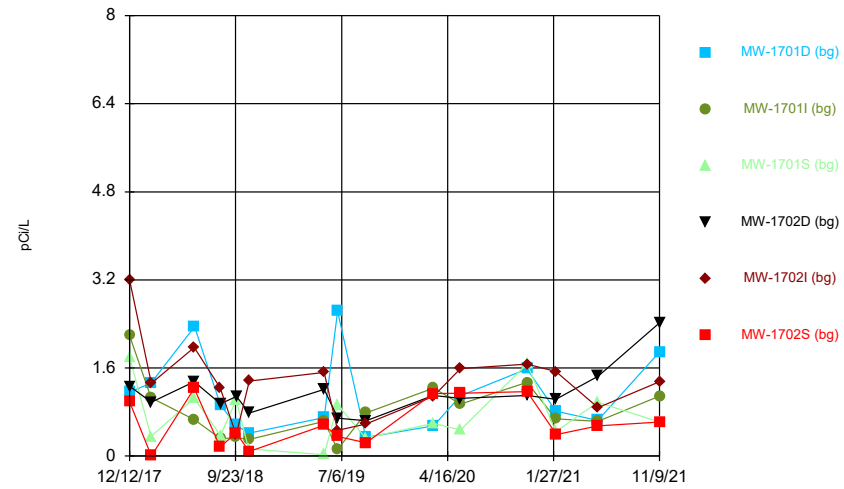
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



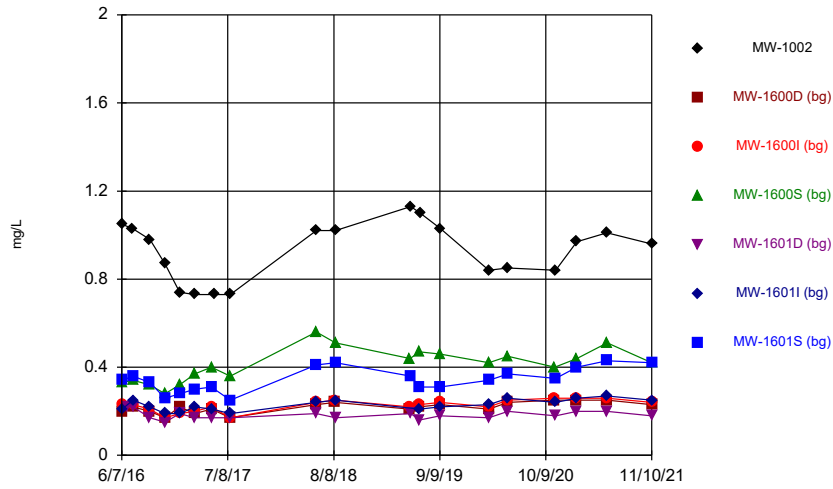
Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



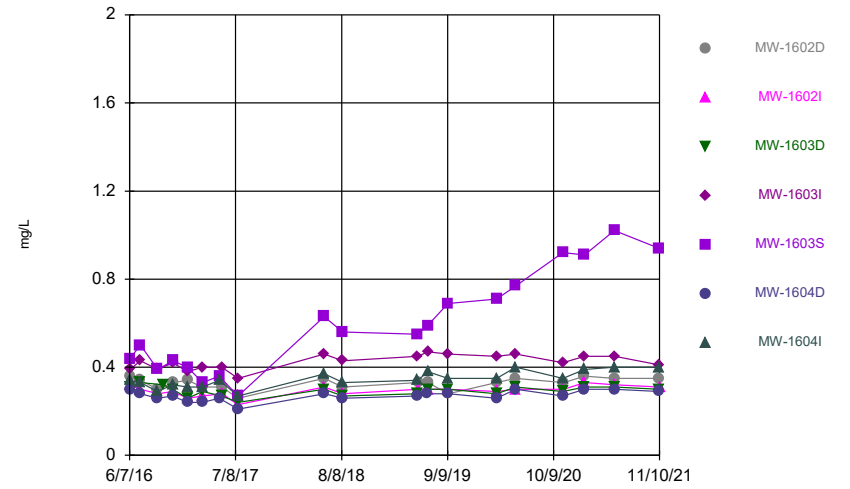
Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



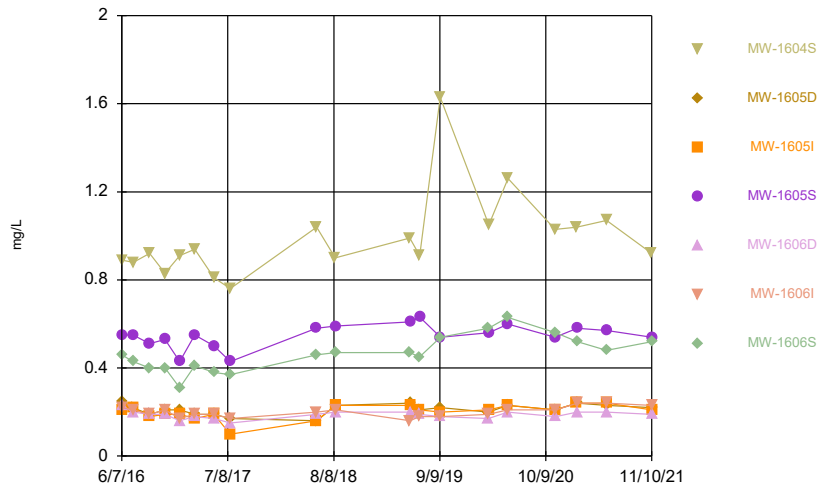
Constituent: Fluoride, total Analysis Run 1/13/2022 4:14 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



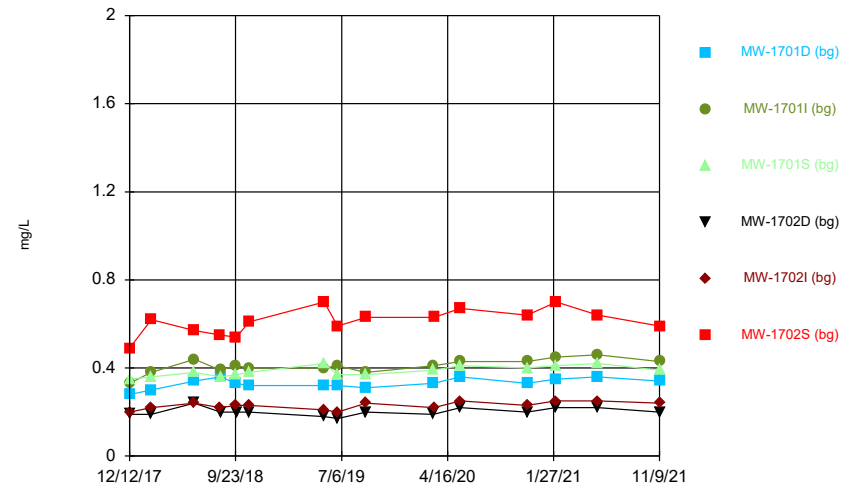
Constituent: Fluoride, total Analysis Run 1/13/2022 4:14 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



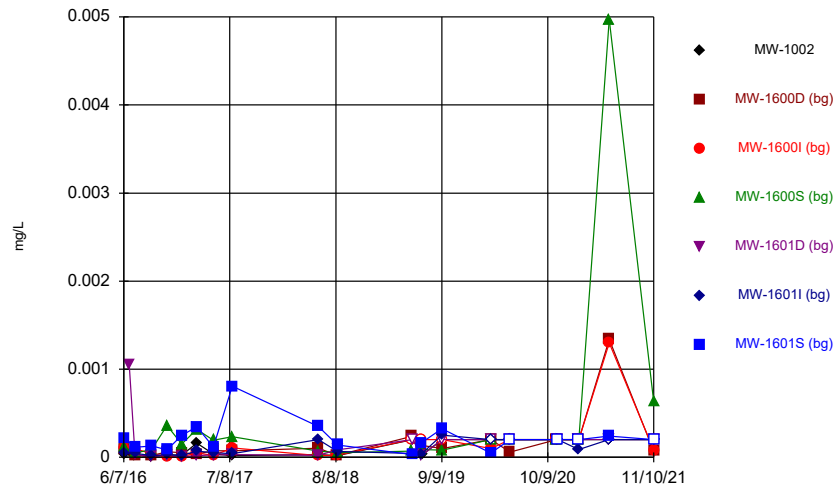
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



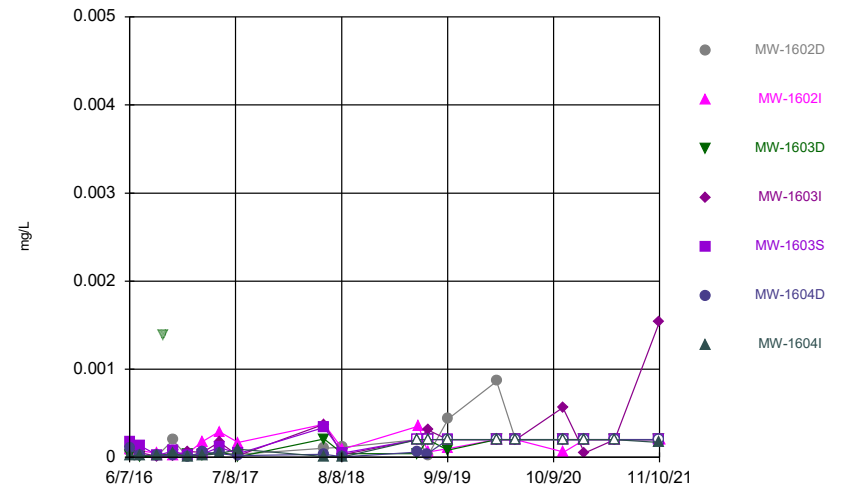
Constituent: Fluoride, total Analysis Run 1/13/2022 4:14 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



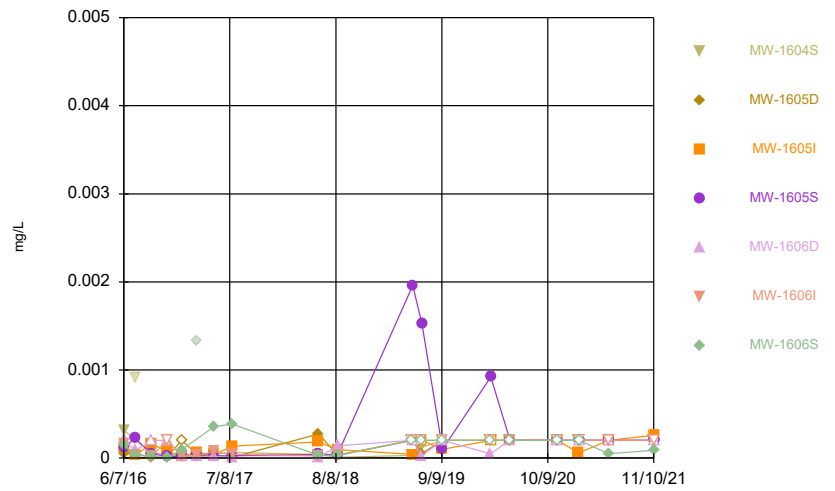
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



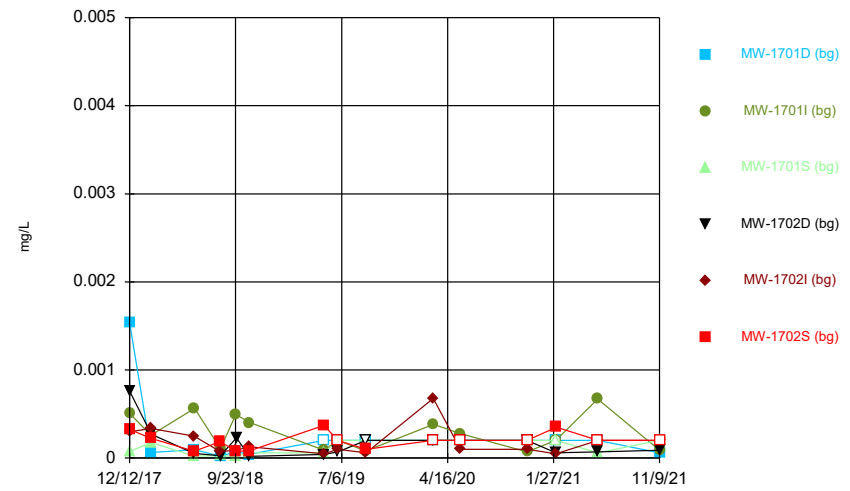
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



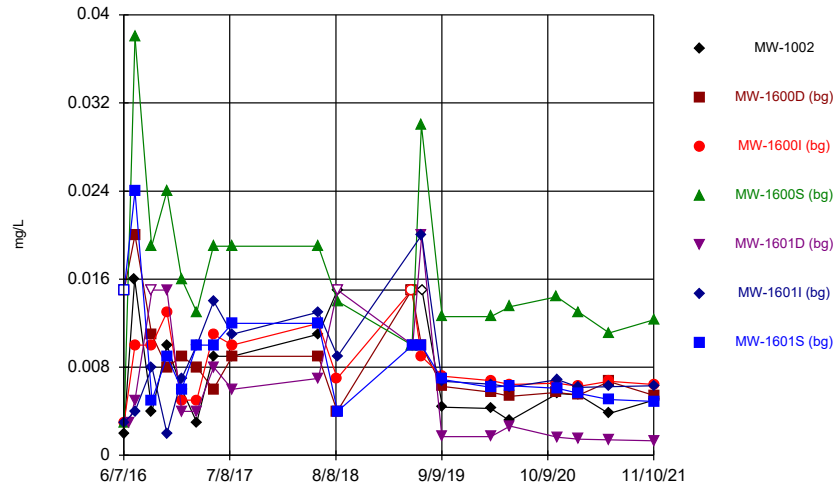
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



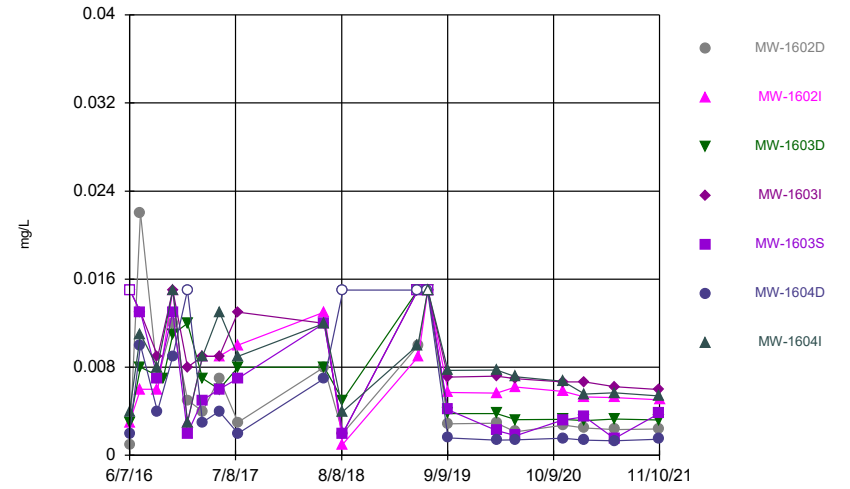
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



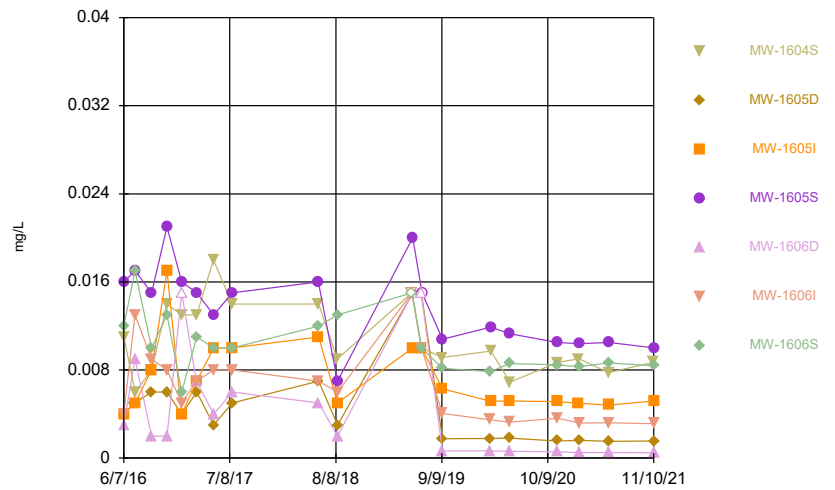
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



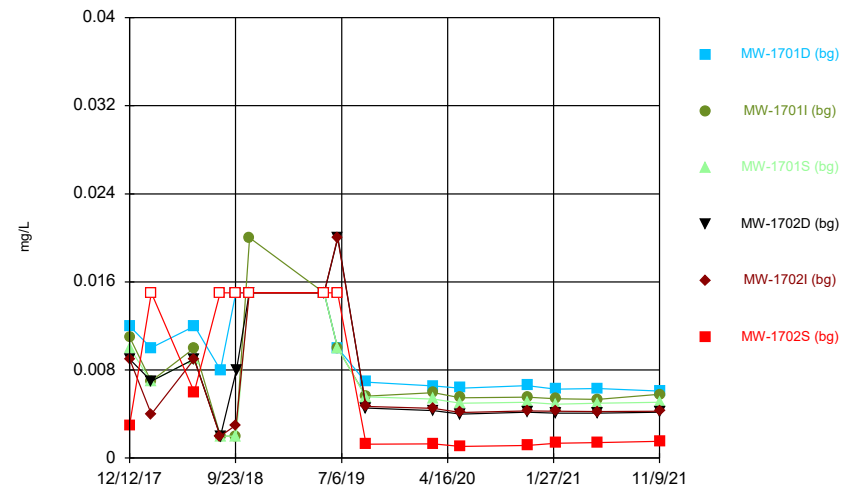
Constituent: Lithium, total Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



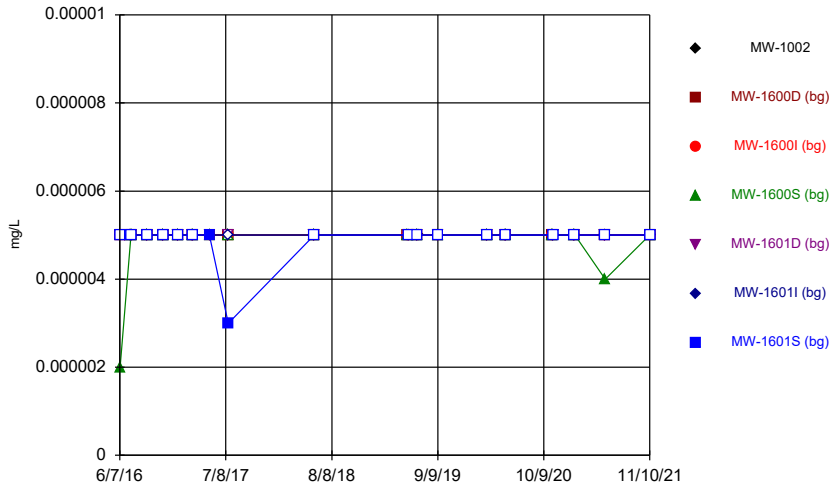
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



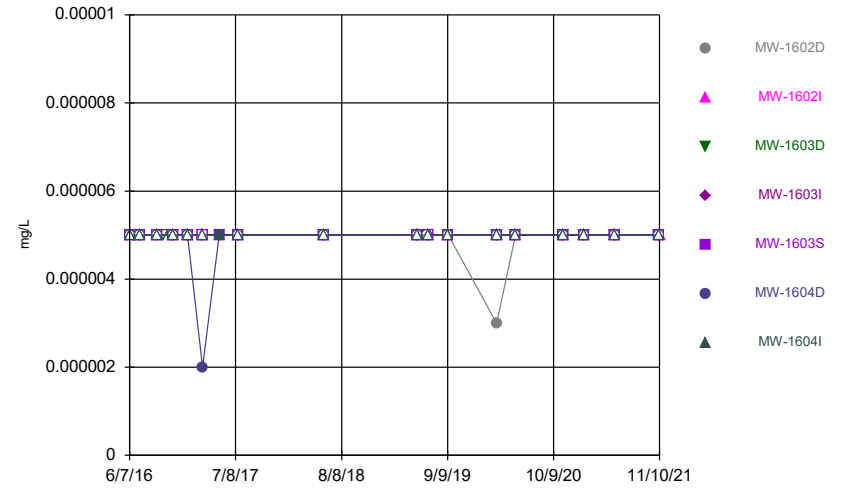
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



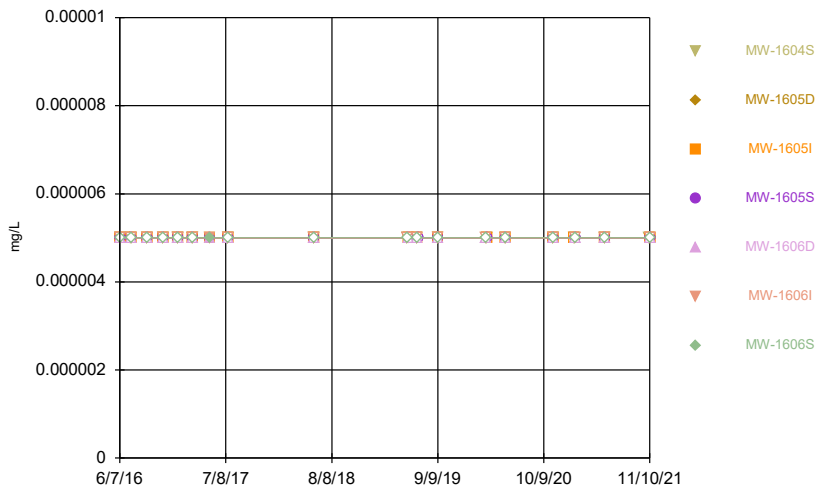
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



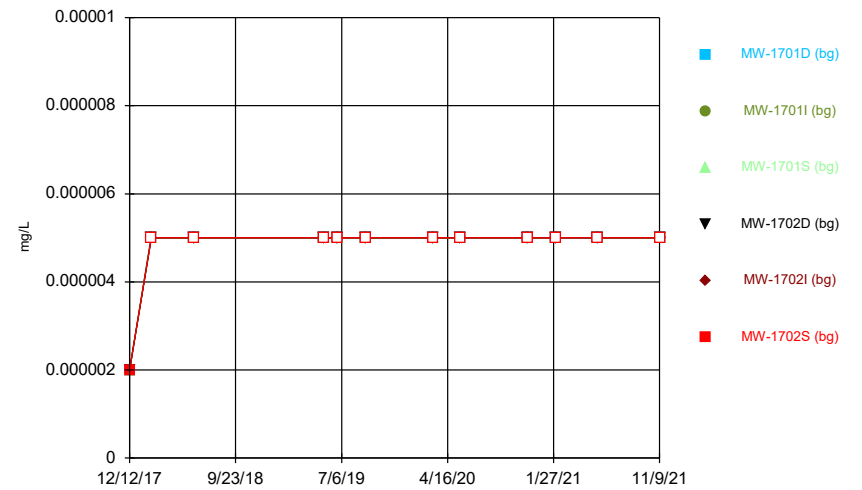
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



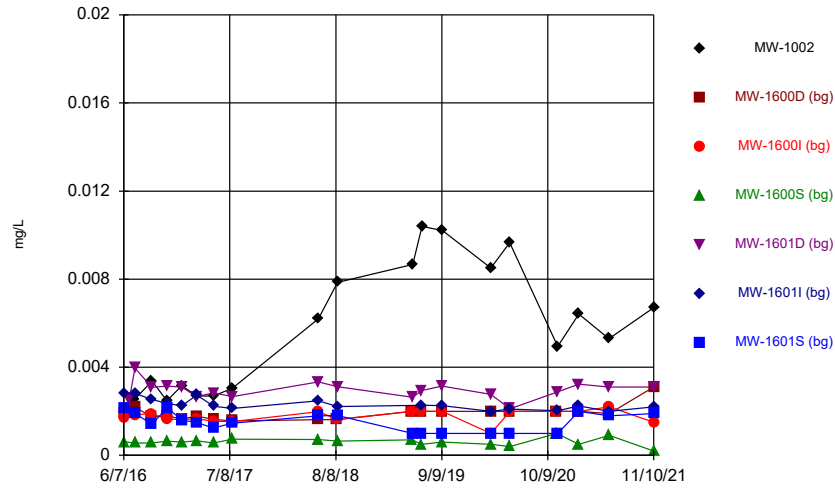
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



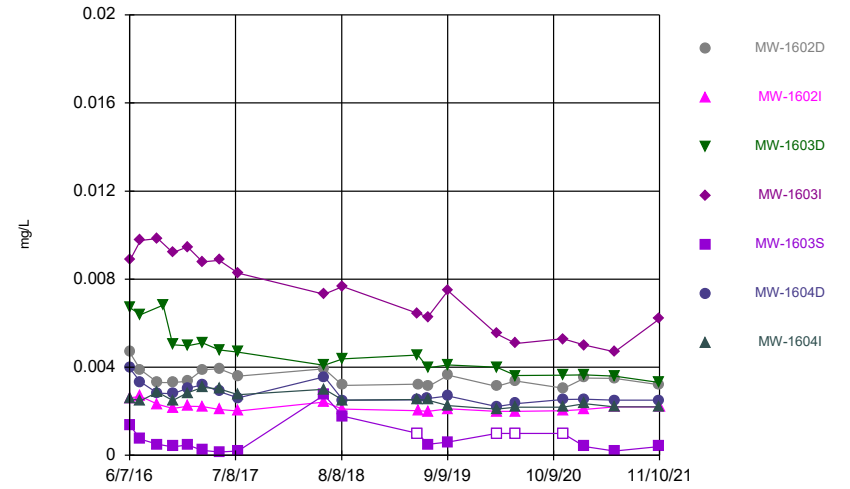
Constituent: Mercury, total Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



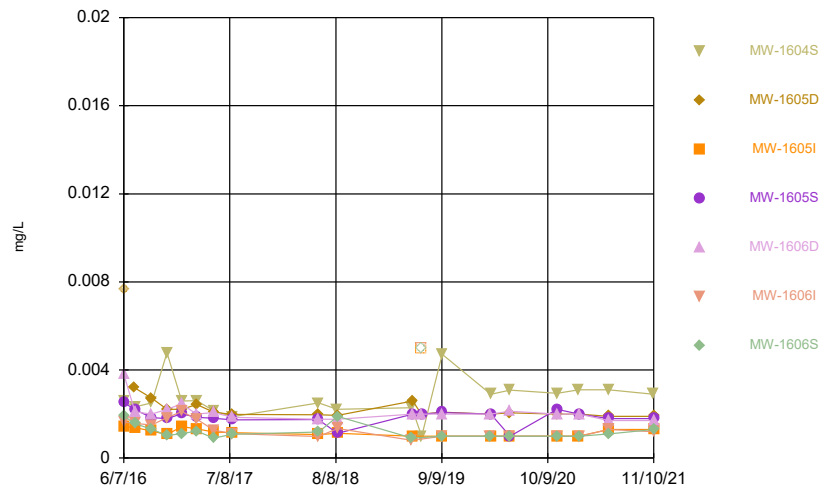
Constituent: Molybdenum, total Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



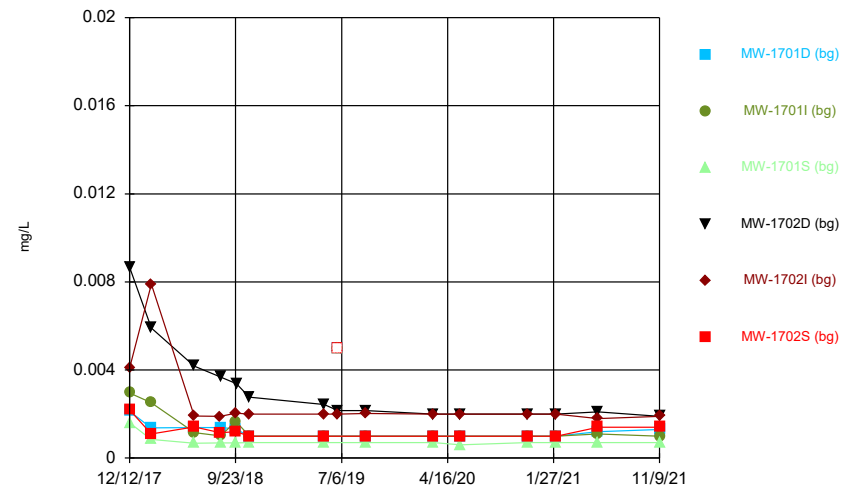
Constituent: Molybdenum, total Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



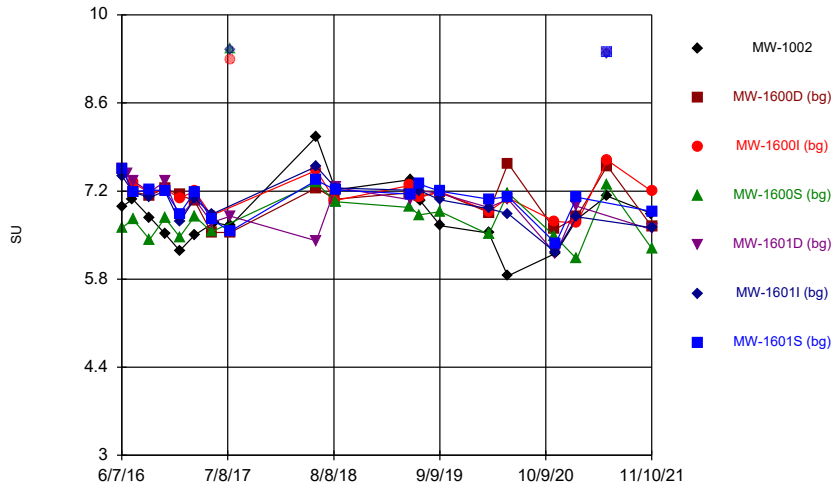
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



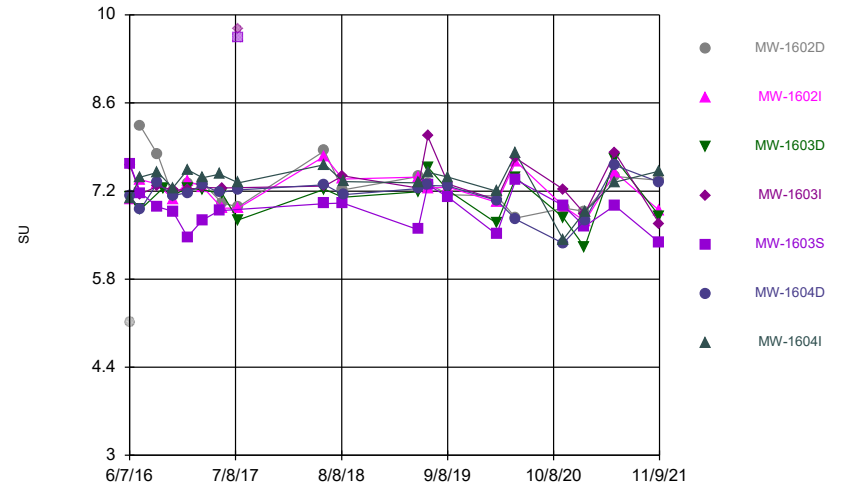
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



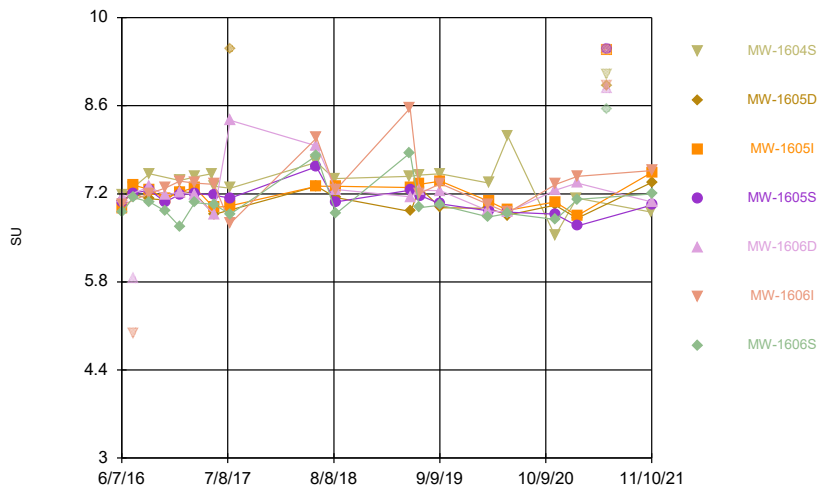
Constituent: pH, field Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



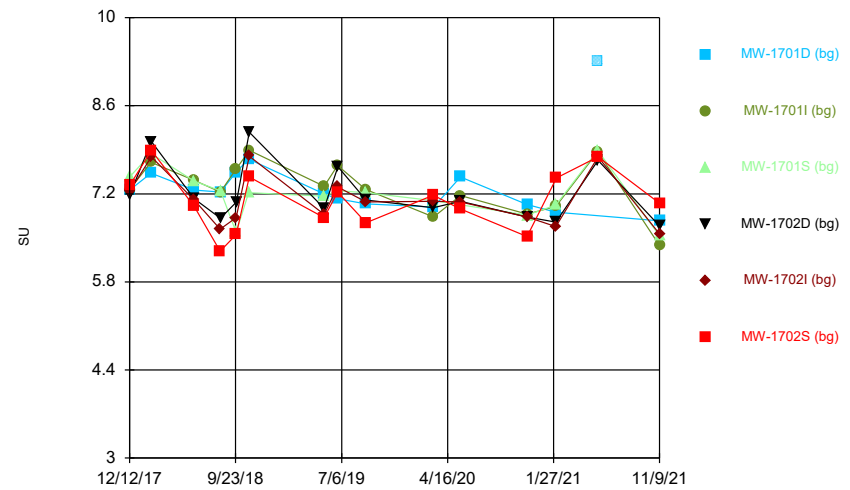
Constituent: pH, field Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



Constituent: pH, field Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

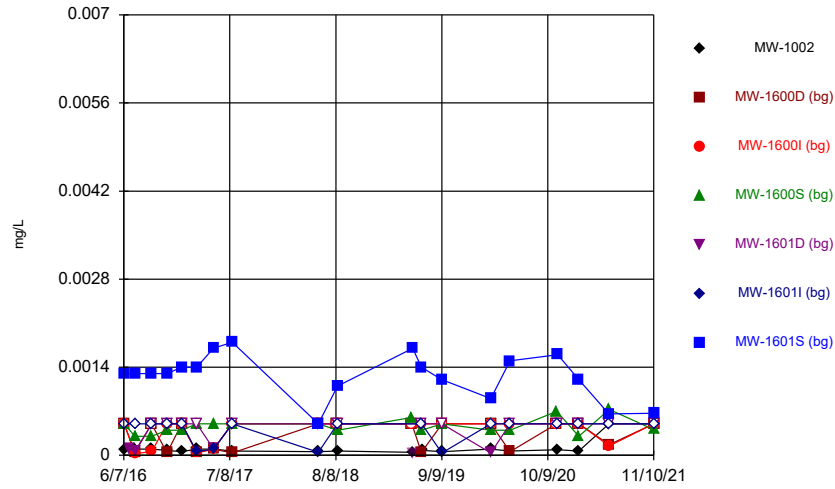
### Time Series



Constituent: pH, field Analysis Run 1/13/2022 4:14 PM  
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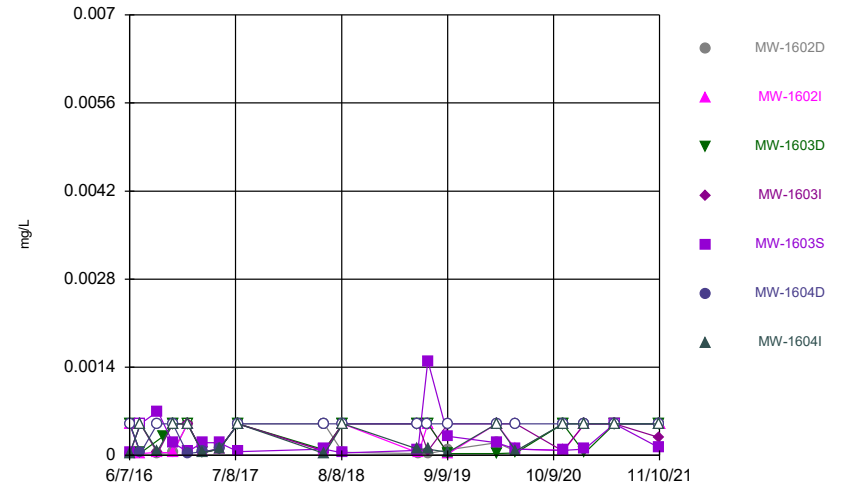


### Time Series



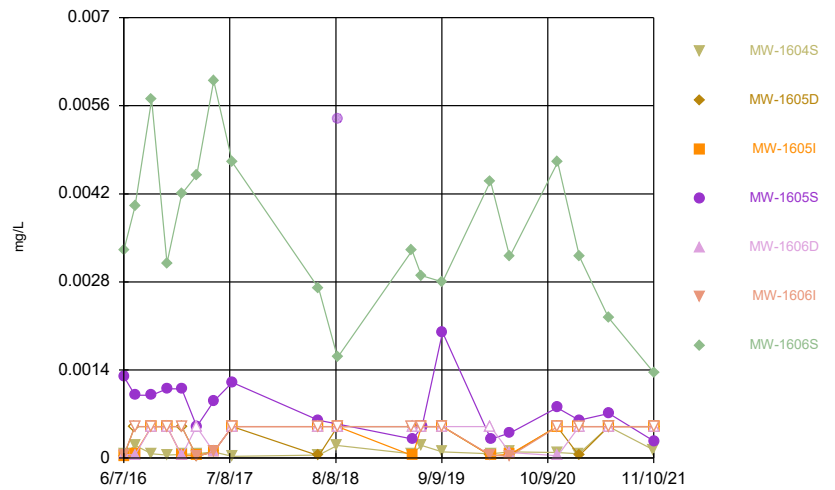
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



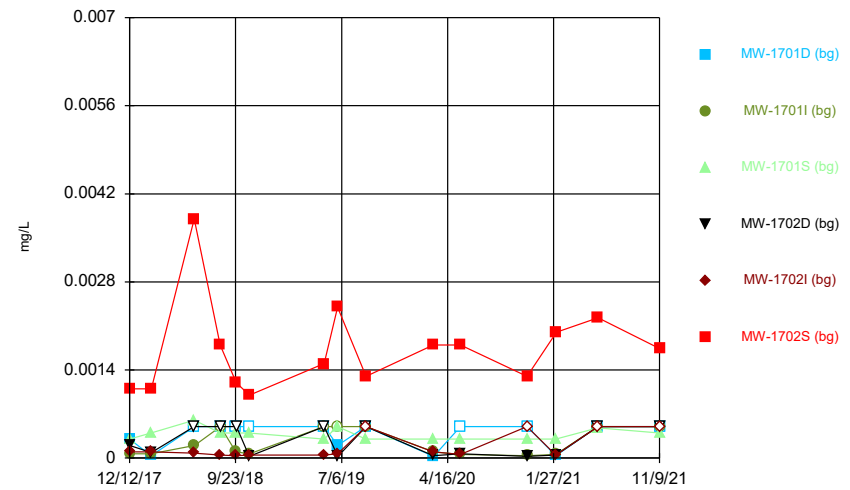
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### Time Series



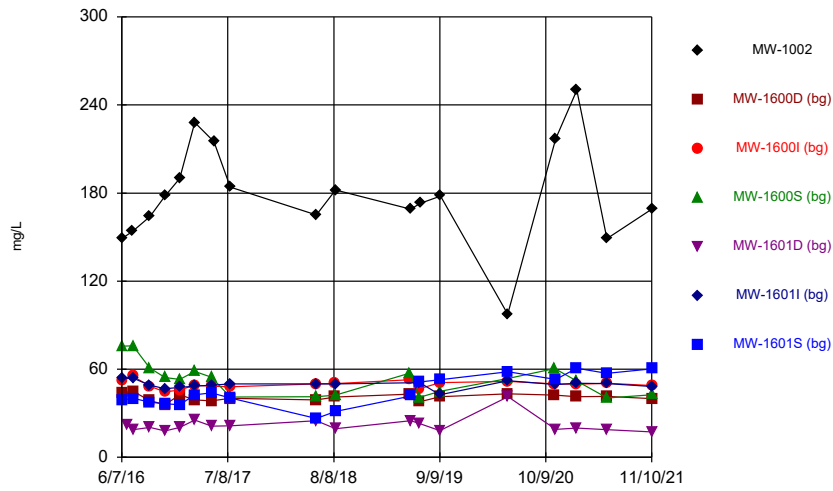
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



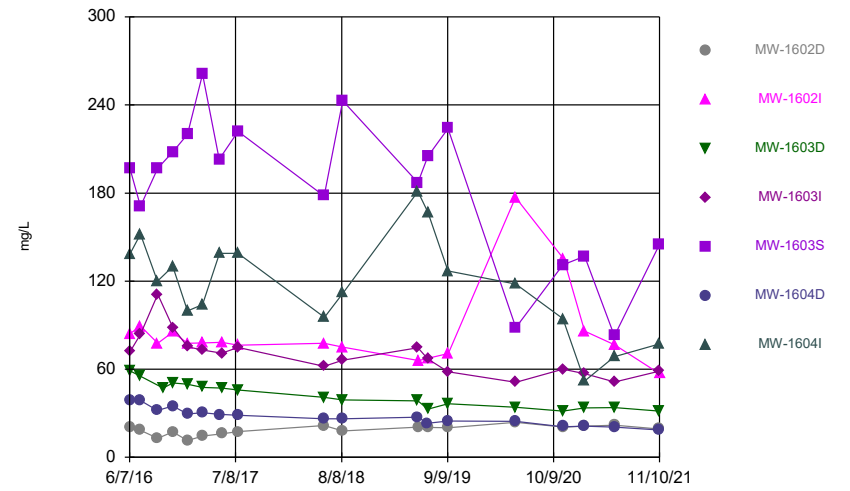
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



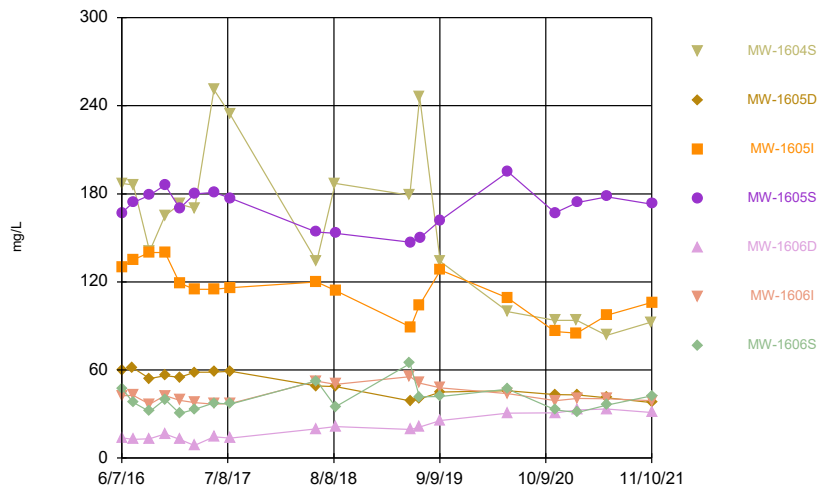
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



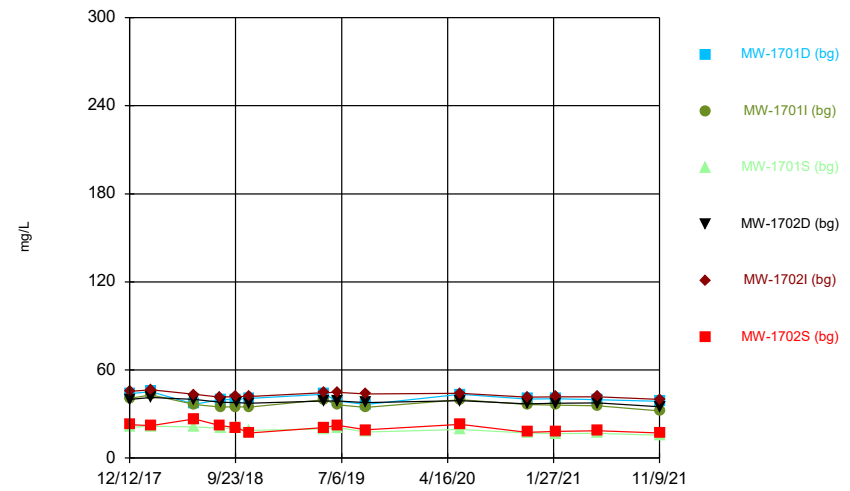
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Time Series



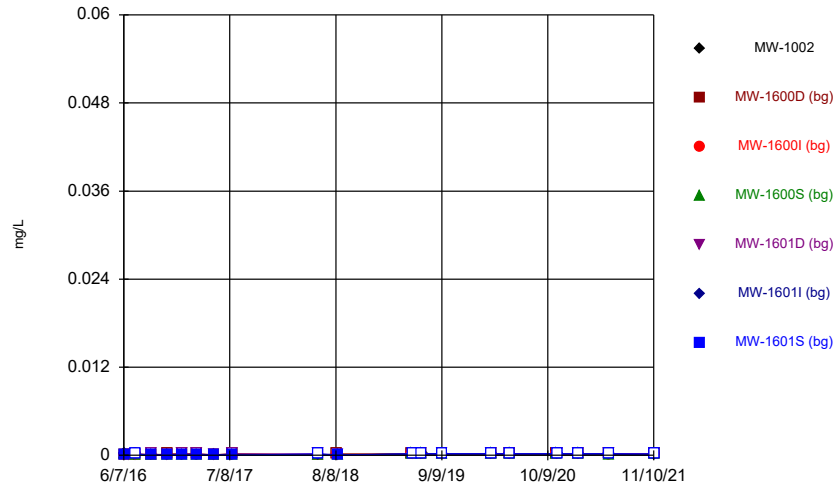
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Time Series



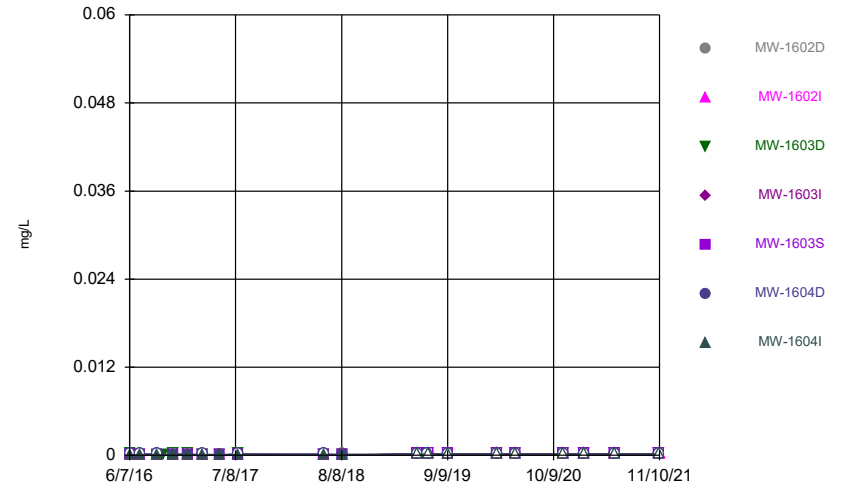
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



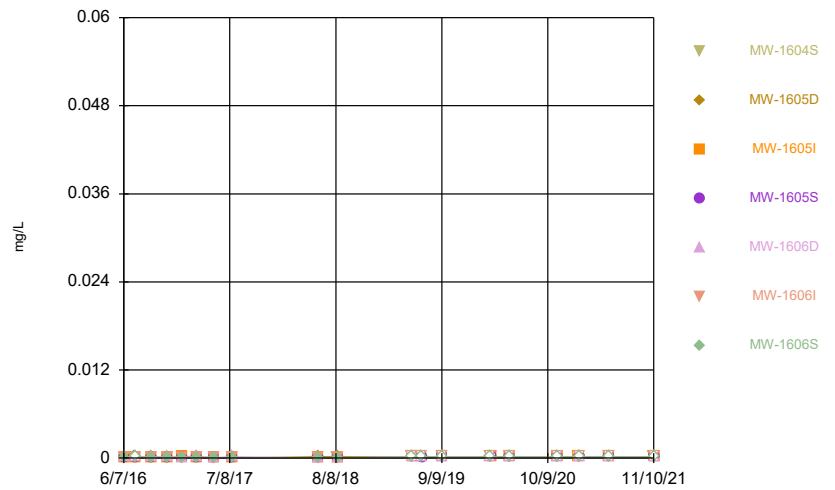
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



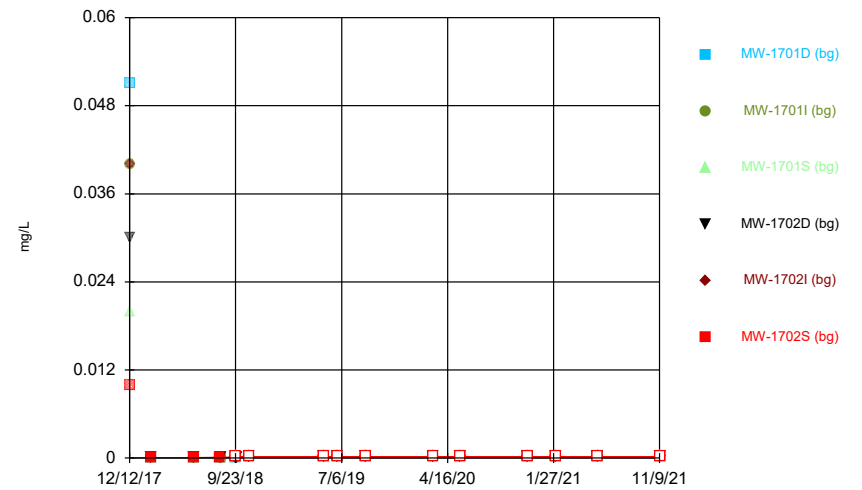
Constituent: Thallium, total Analysis Run 1/13/2022 4:14 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



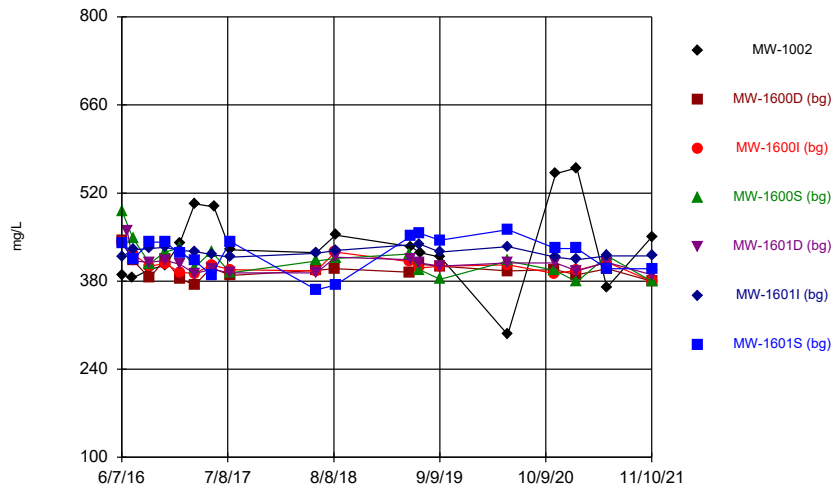
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### Time Series



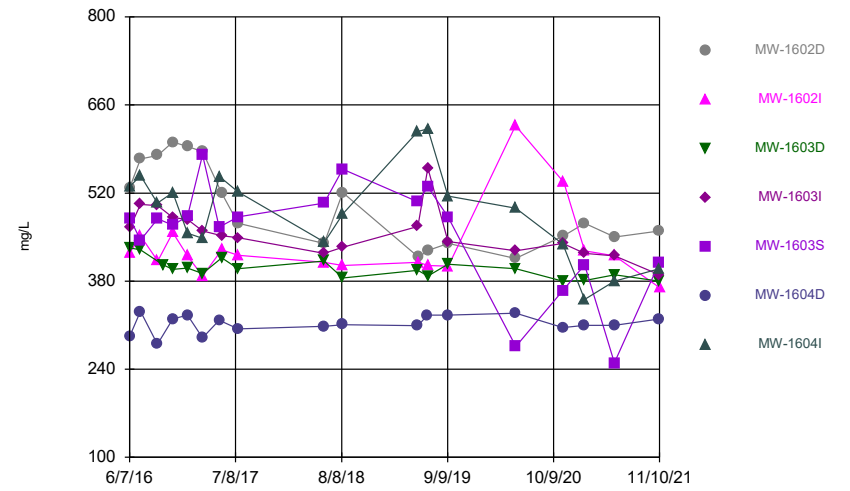
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



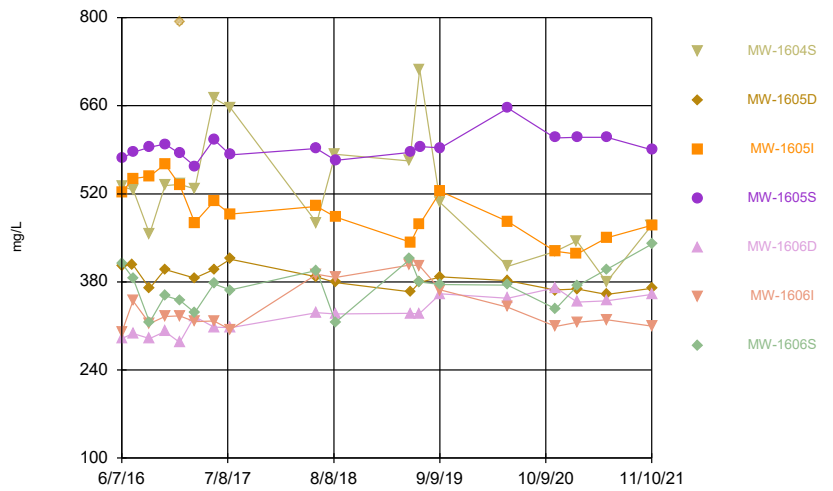
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



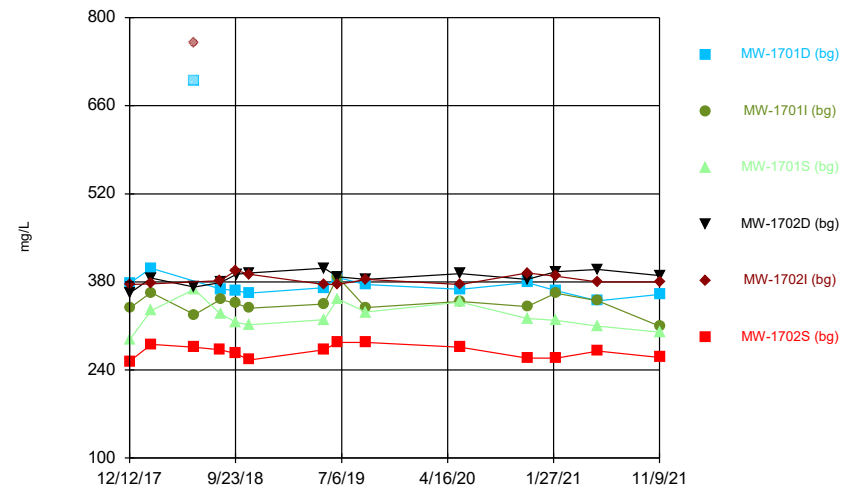
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Time Series



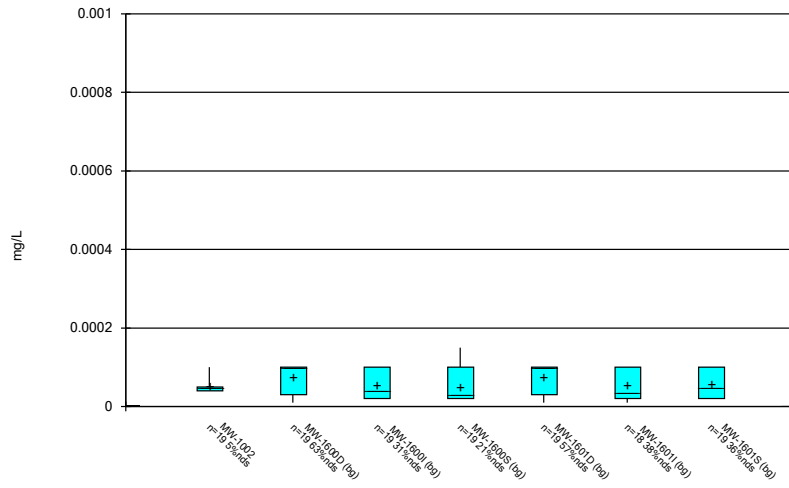
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### Time Series



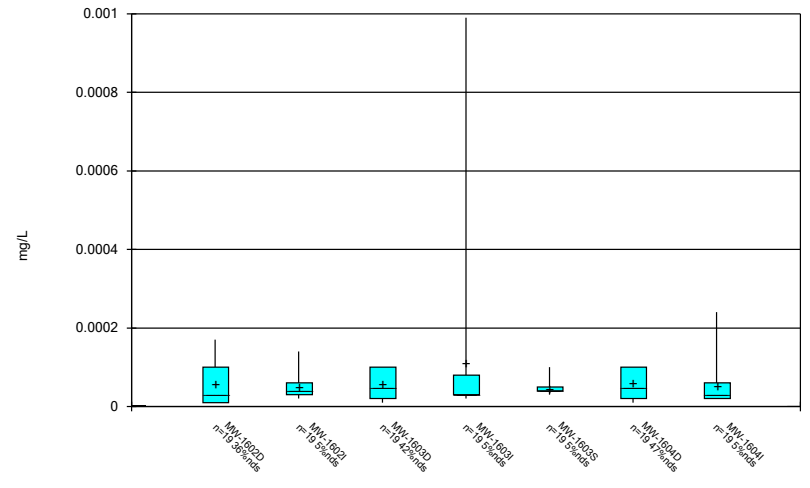
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



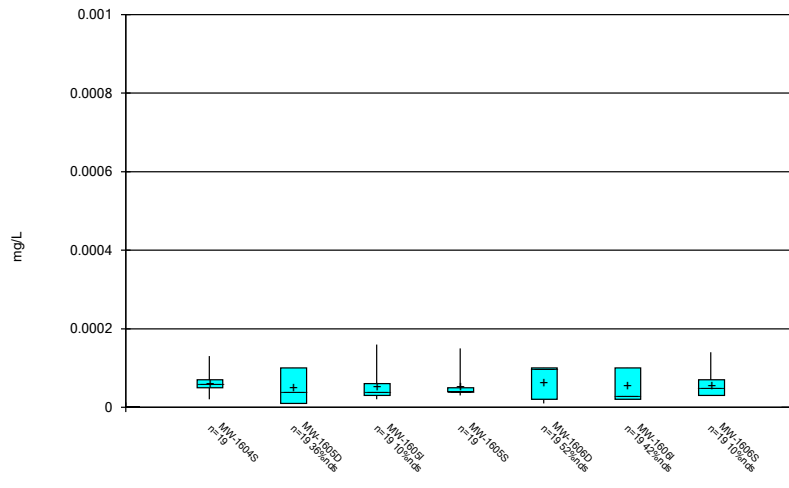
Constituent: Antimony, total Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



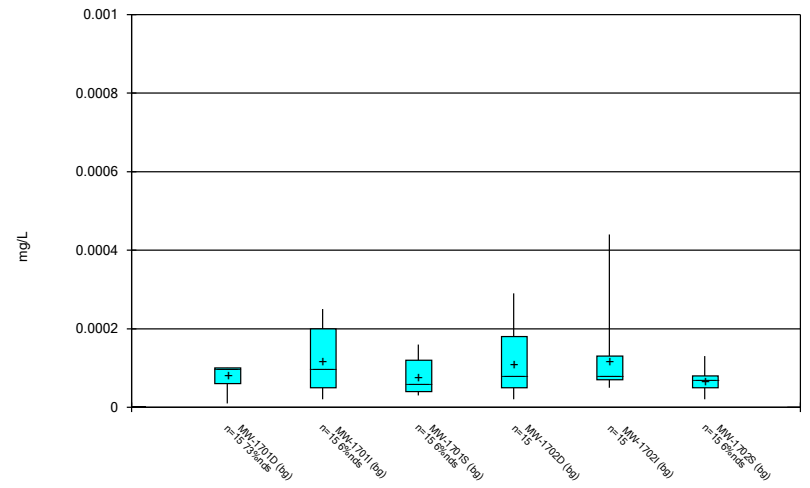
Constituent: Antimony, total Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



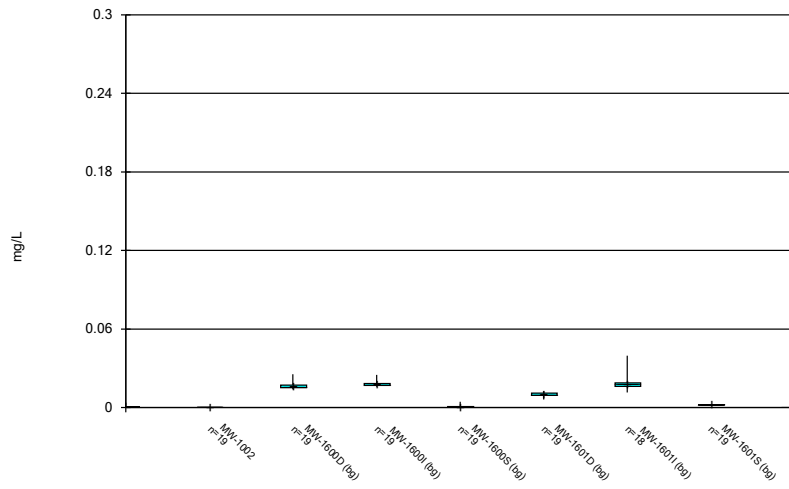
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Box & Whiskers Plot



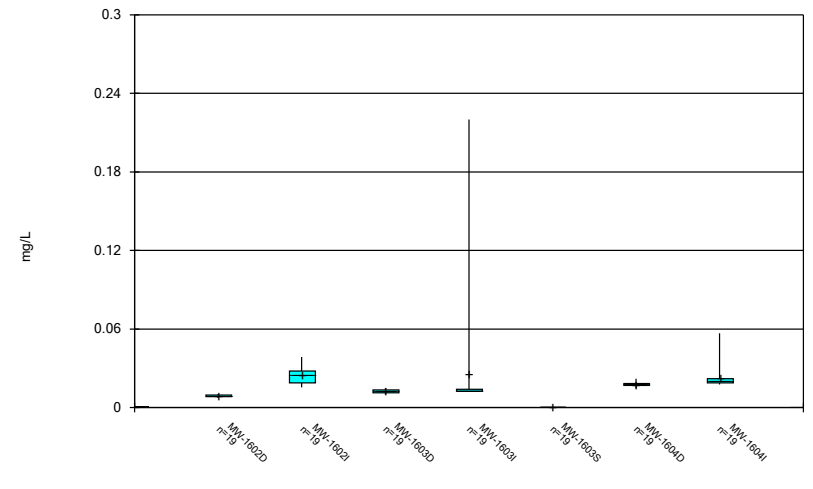
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Box & Whiskers Plot



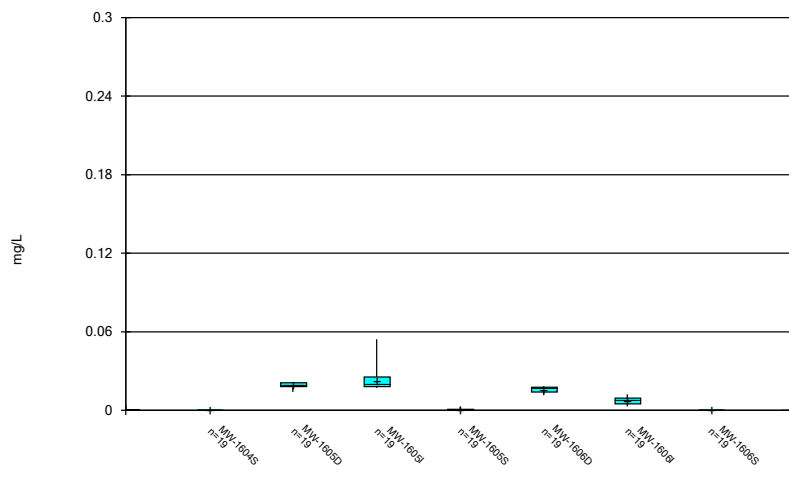
Constituent: Arsenic, total Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



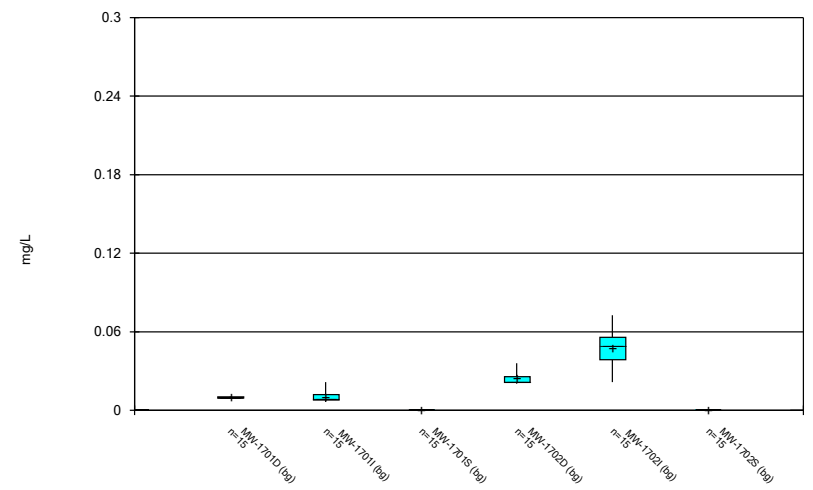
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



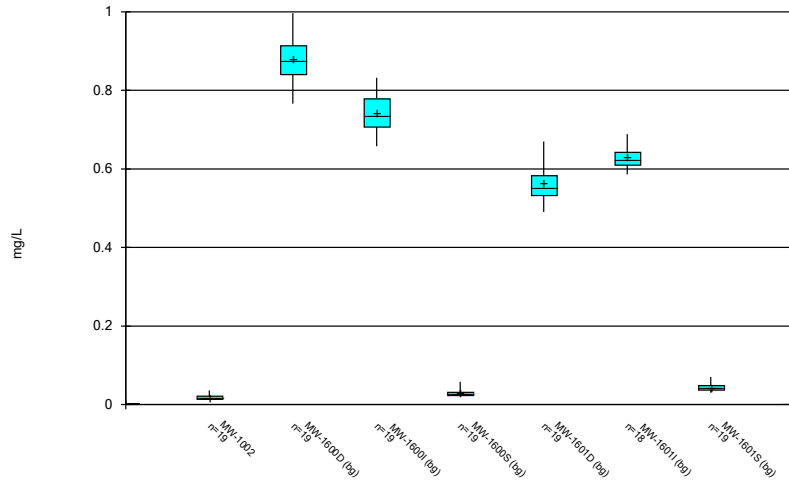
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Box & Whiskers Plot



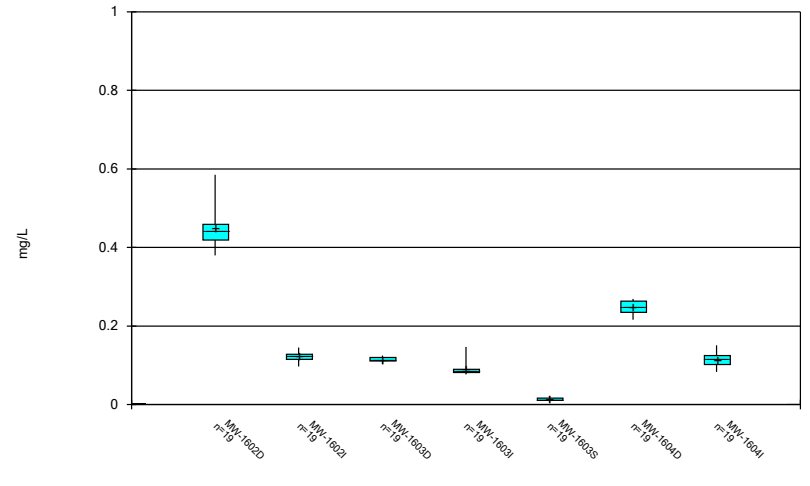
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



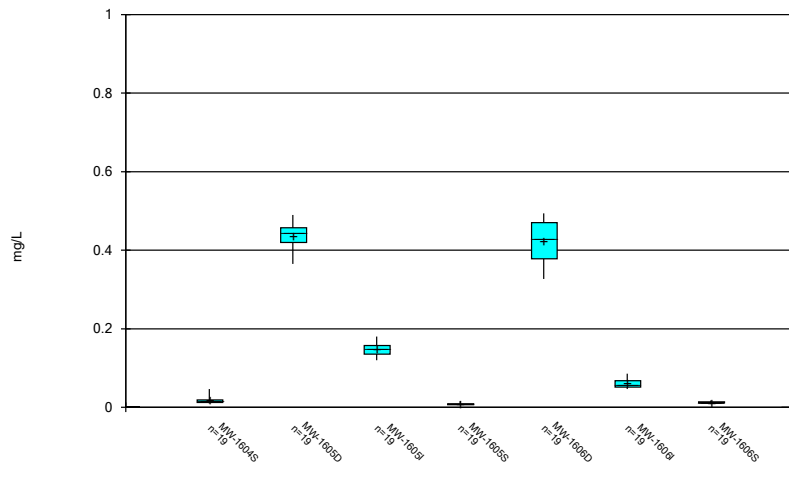
Constituent: Barium, total Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



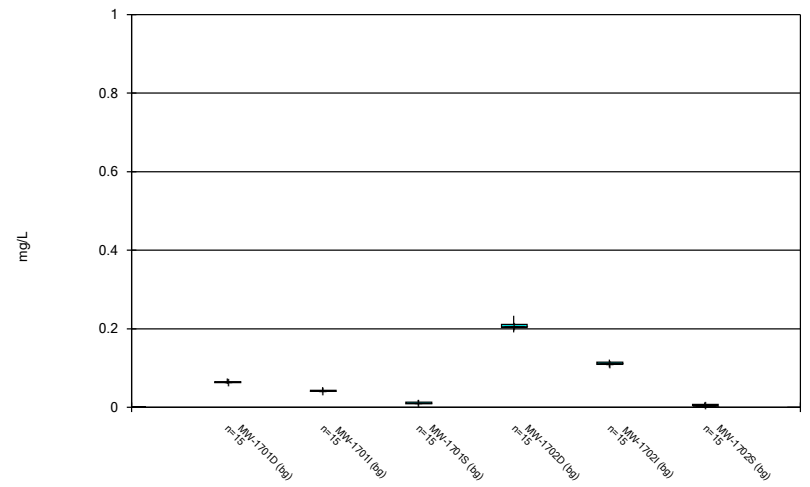
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



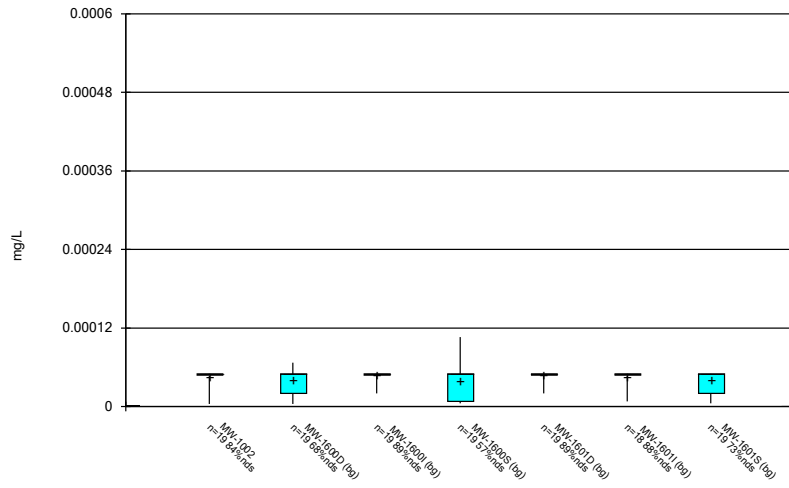
Constituent: Barium, total Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



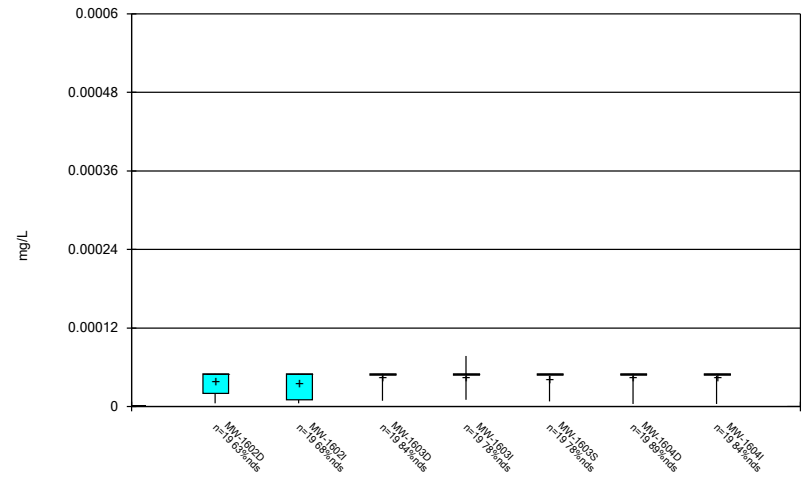
Constituent: Barium, total Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



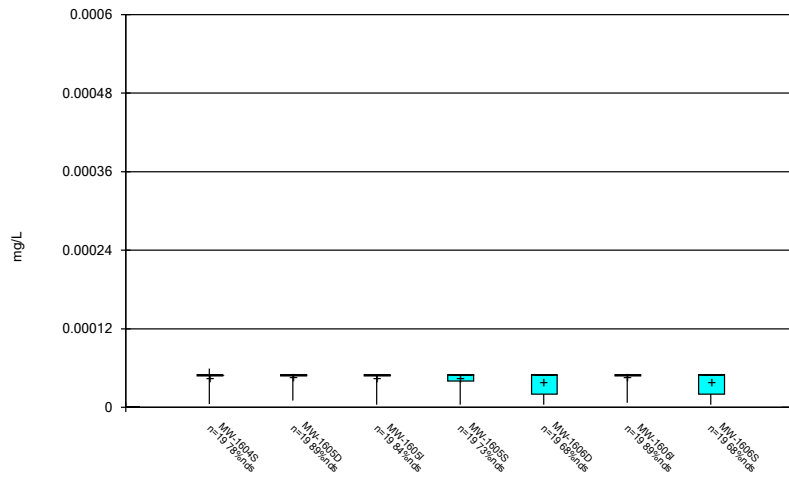
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



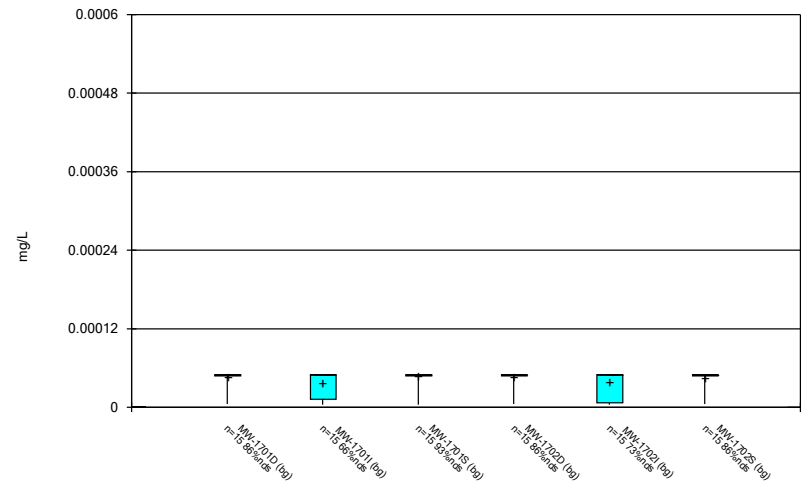
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 1/13/2022 4:16 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

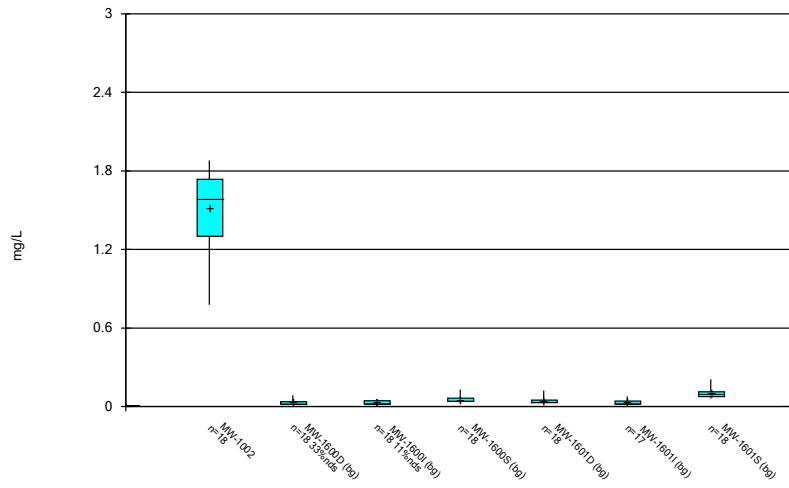
Box & Whiskers Plot



Constituent: Beryllium, total Analysis Run 1/13/2022 4:16 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

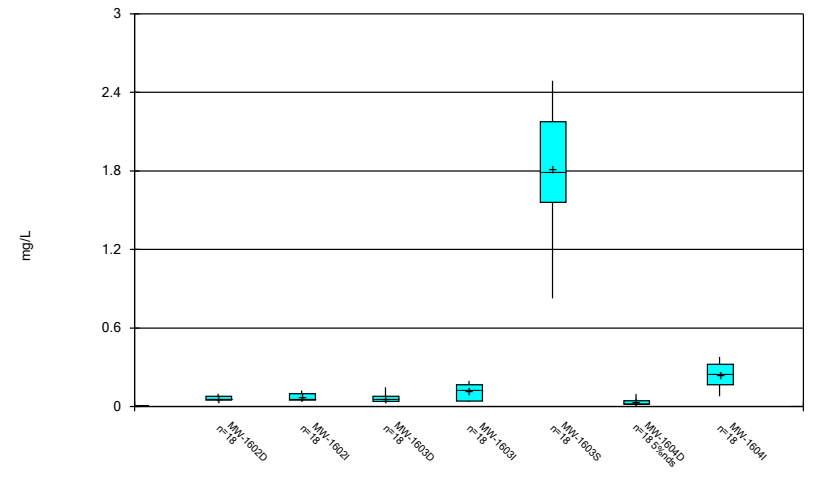


Box & Whiskers Plot



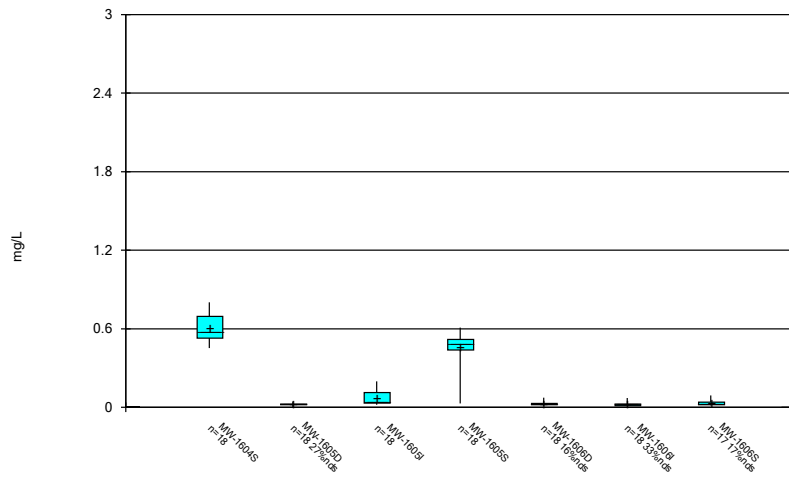
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Box & Whiskers Plot



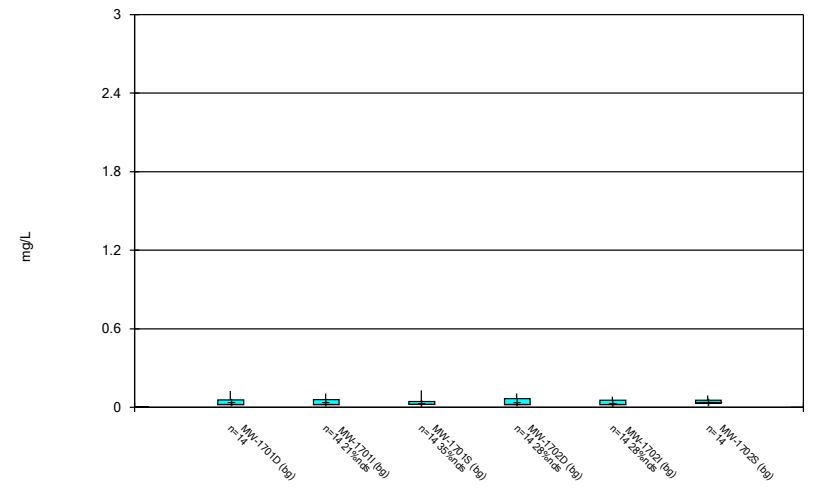
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Box & Whiskers Plot



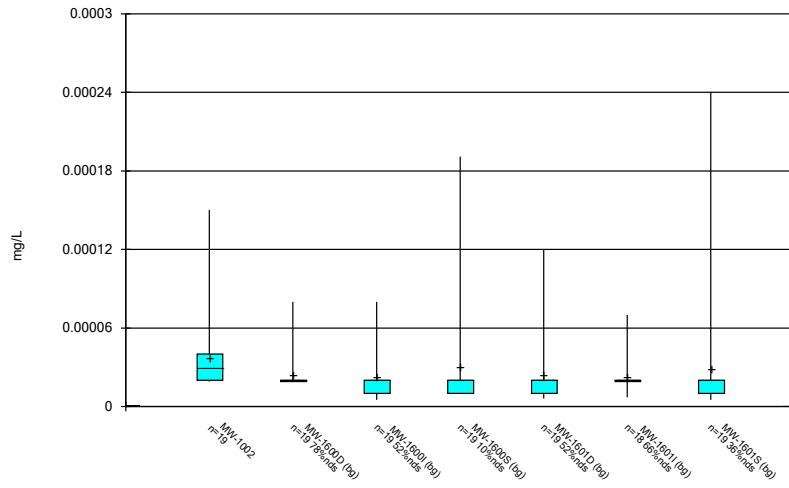
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



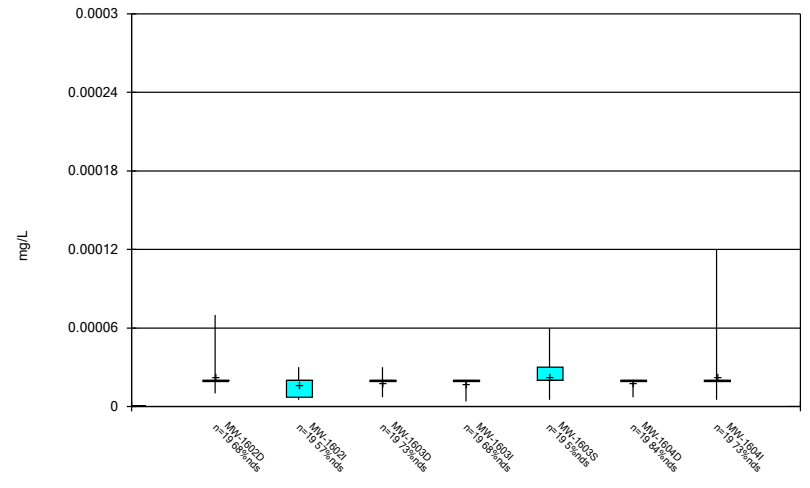
Constituent: Boron, total Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



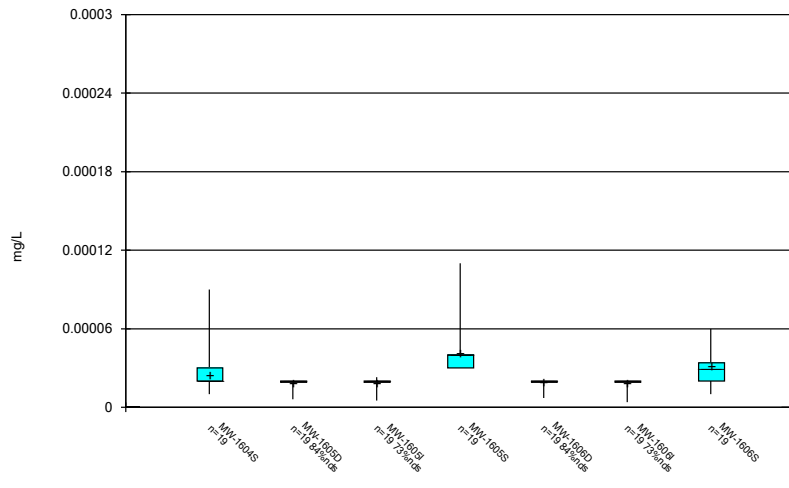
Constituent: Cadmium, total Analysis Run 1/13/2022 4:16 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



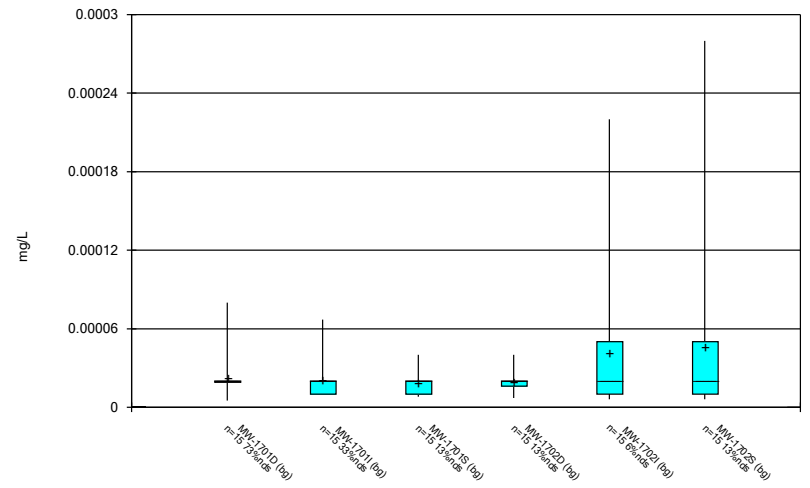
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



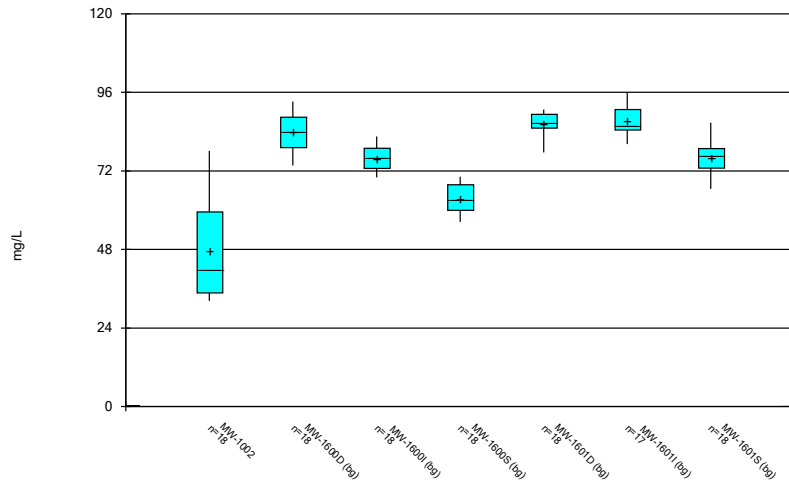
Constituent: Cadmium, total Analysis Run 1/13/2022 4:16 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



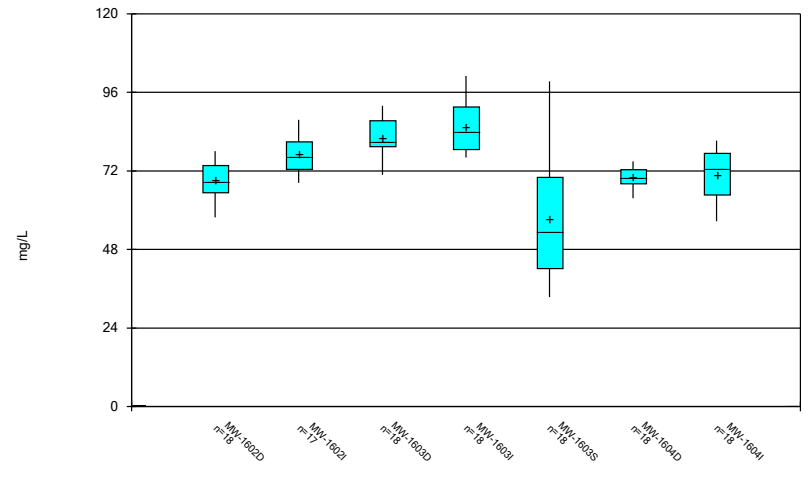
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### Box & Whiskers Plot



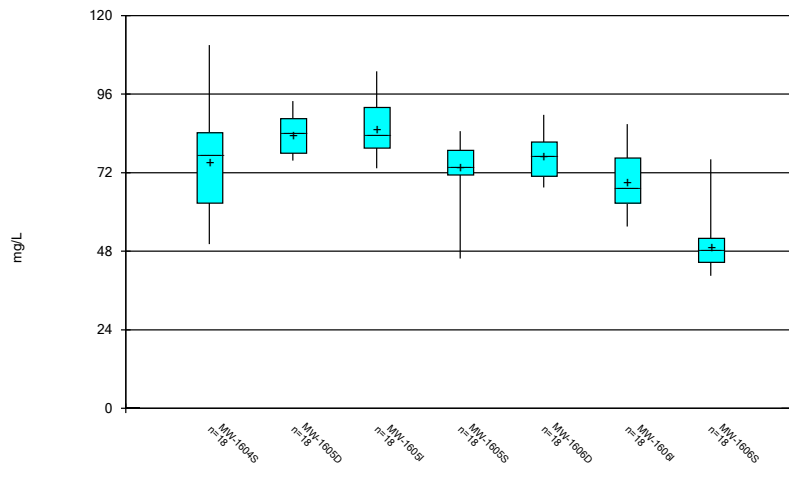
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



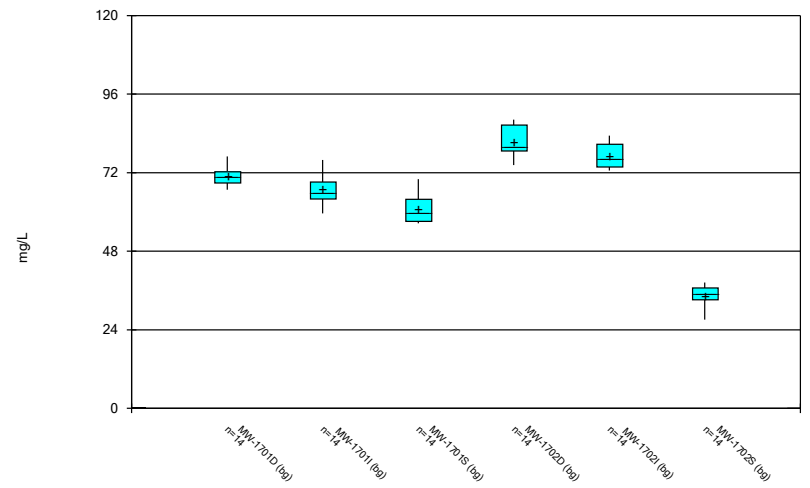
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### Box & Whiskers Plot



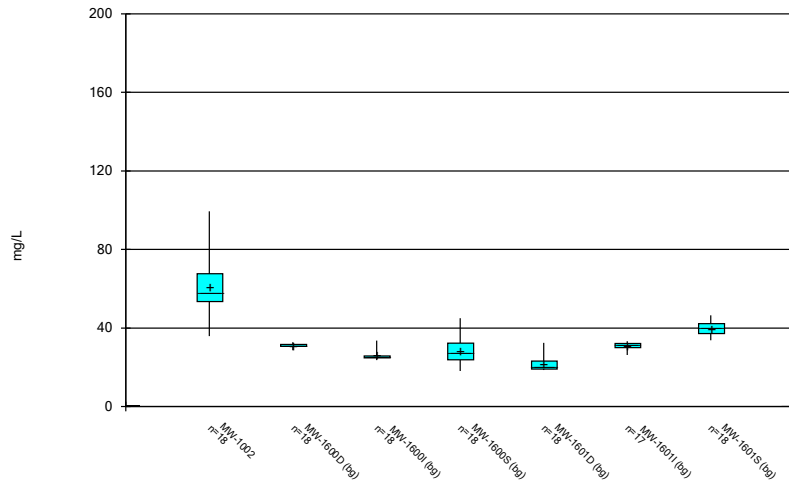
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



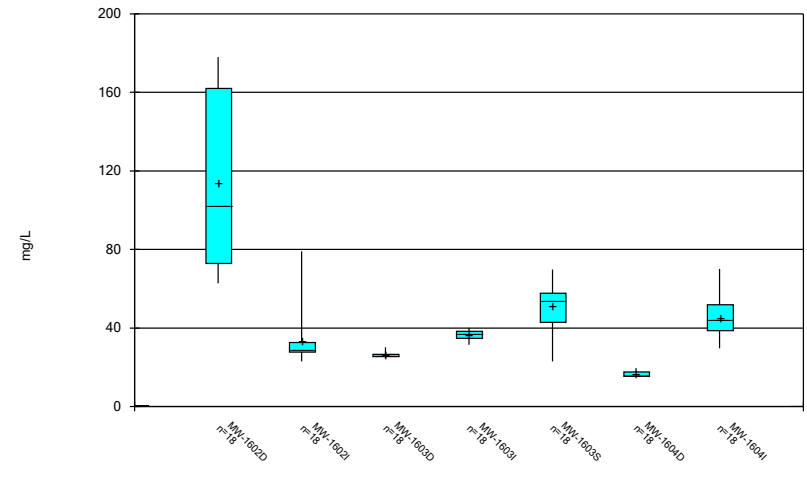
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



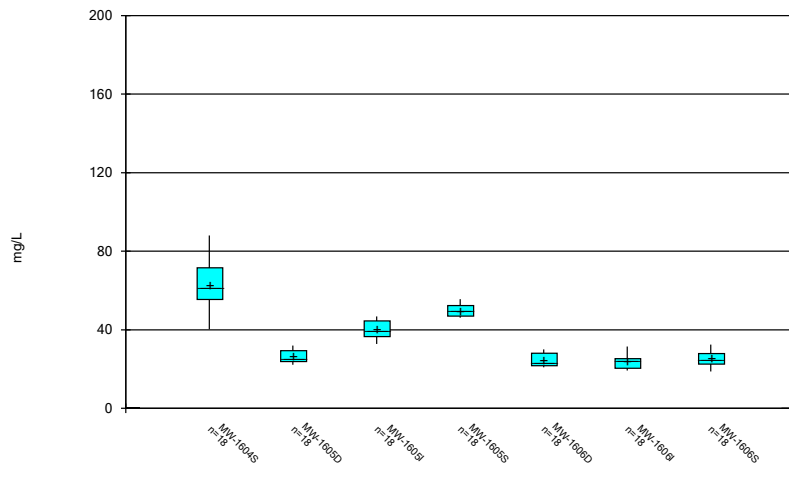
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



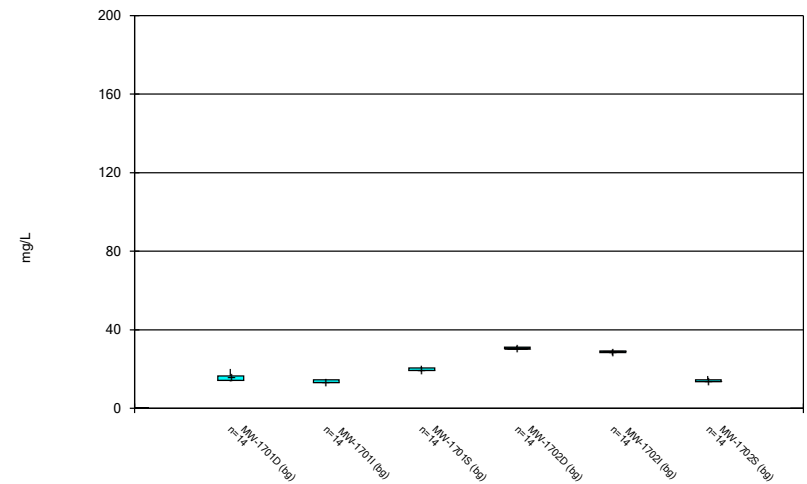
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### Box & Whiskers Plot



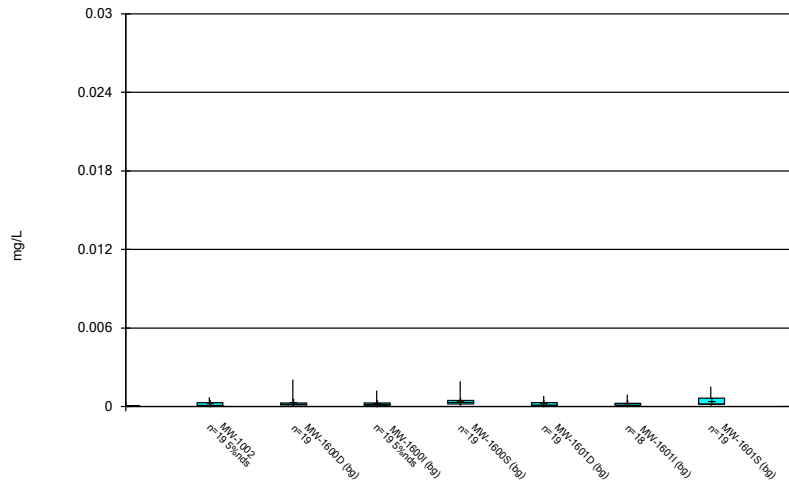
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



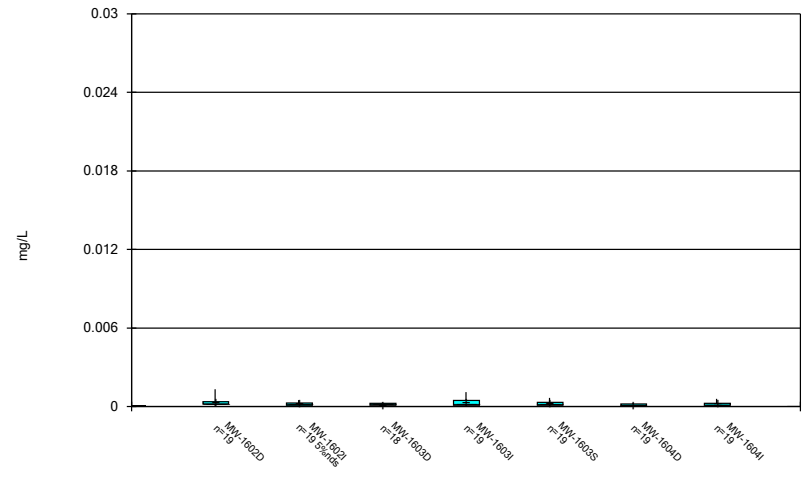
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### Box & Whiskers Plot



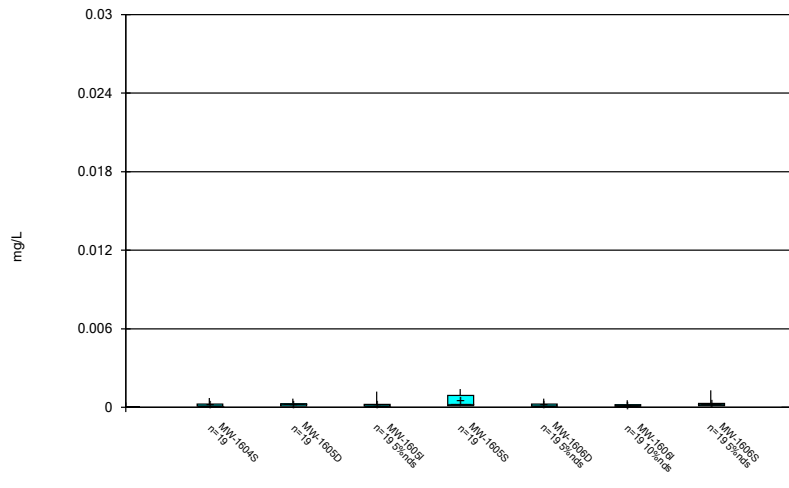
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### Box & Whiskers Plot



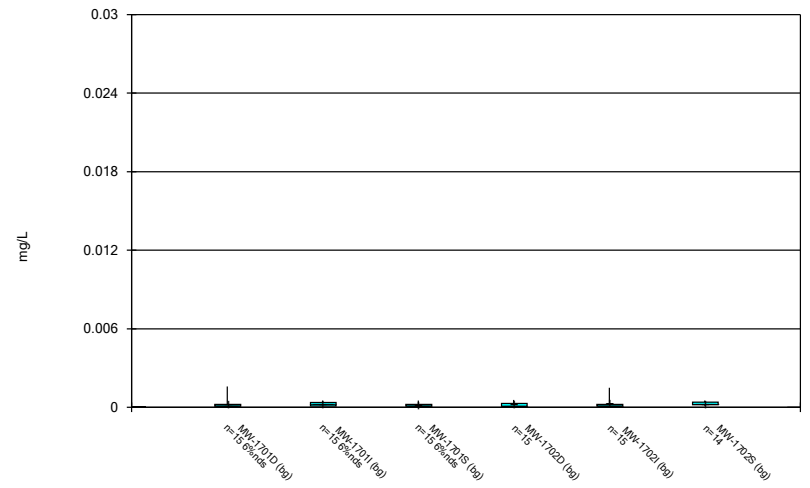
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### Box & Whiskers Plot



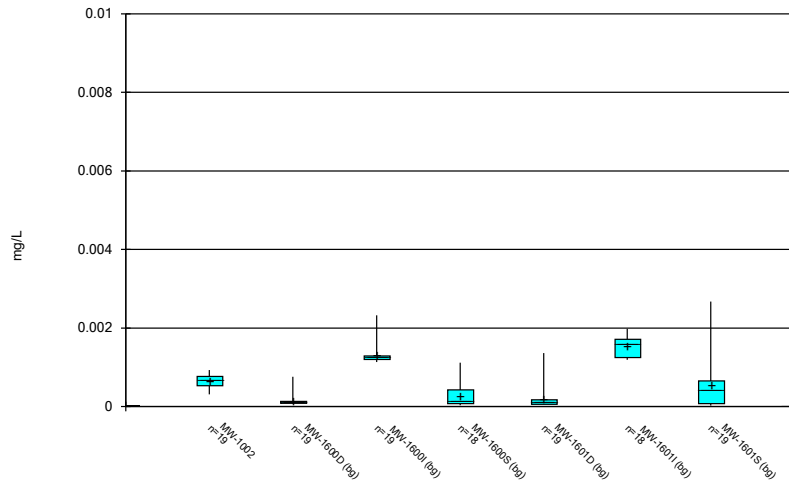
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### Box & Whiskers Plot



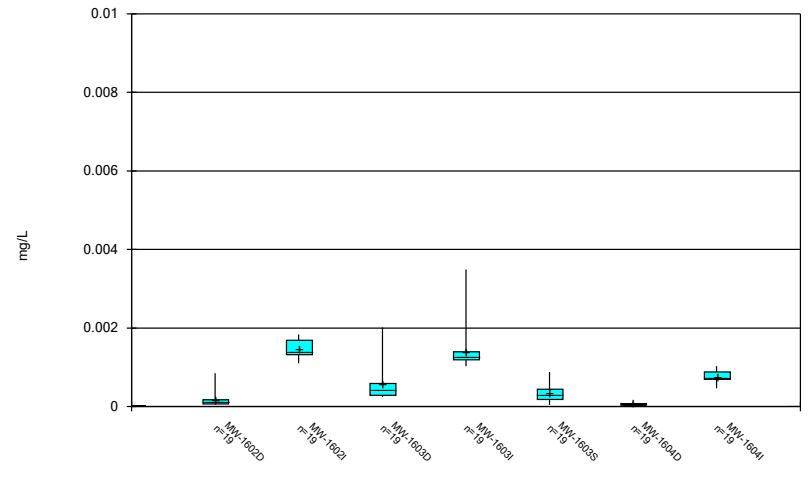
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



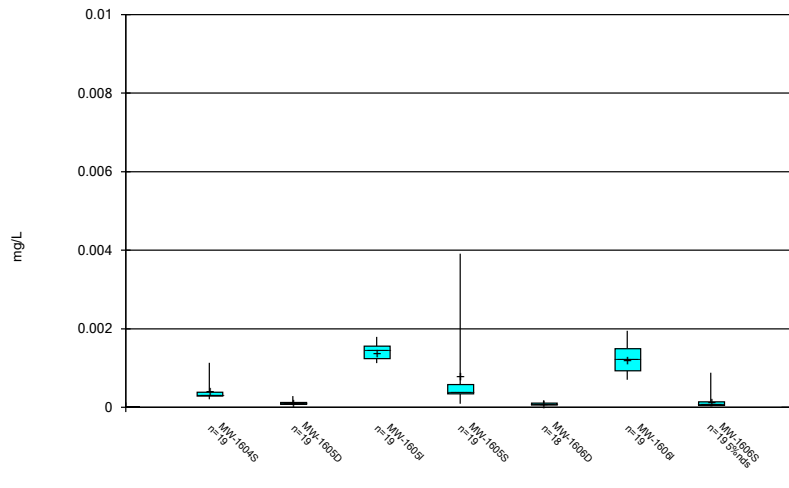
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



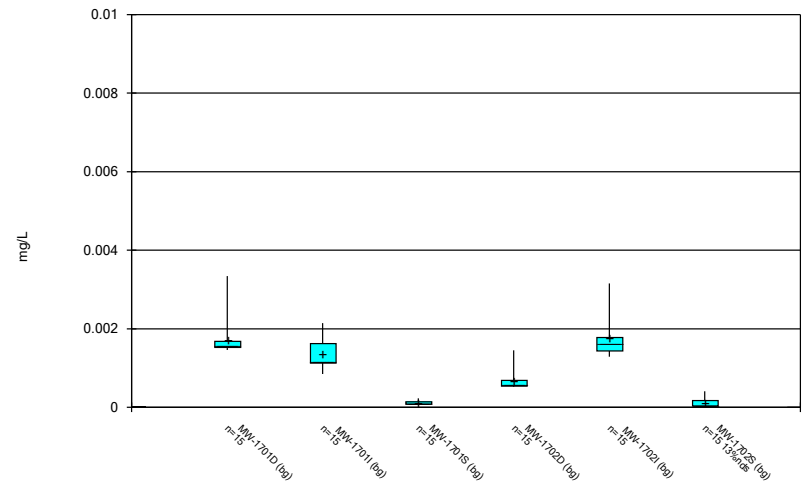
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



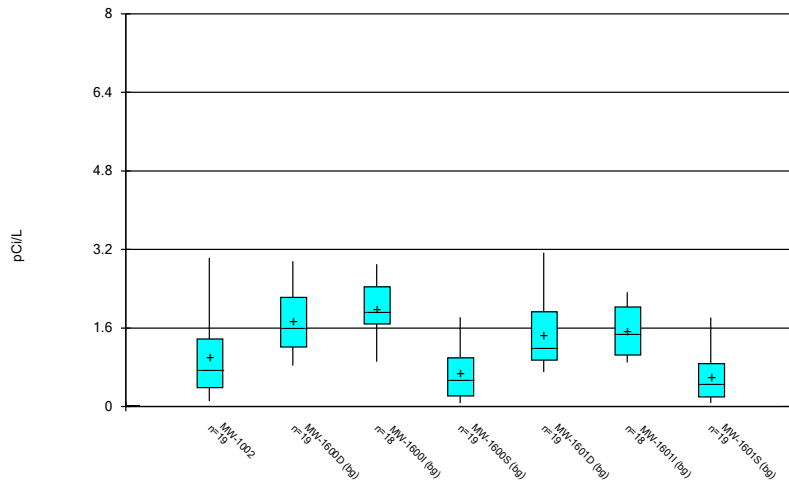
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



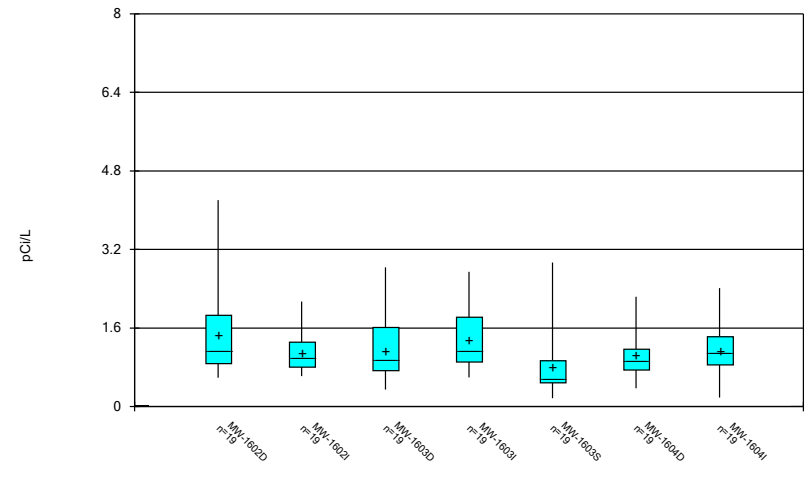
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



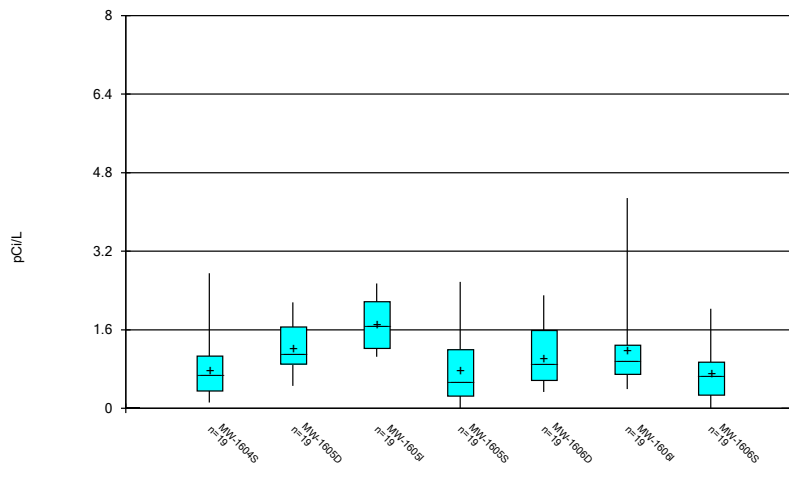
Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:16 PM  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



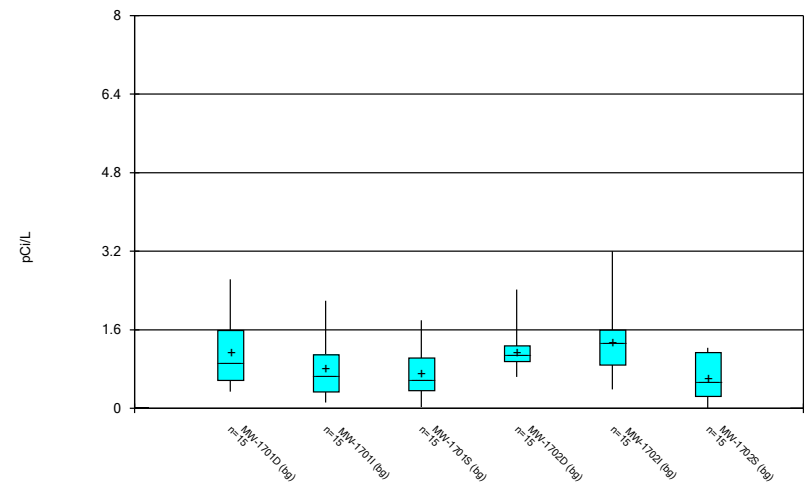
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



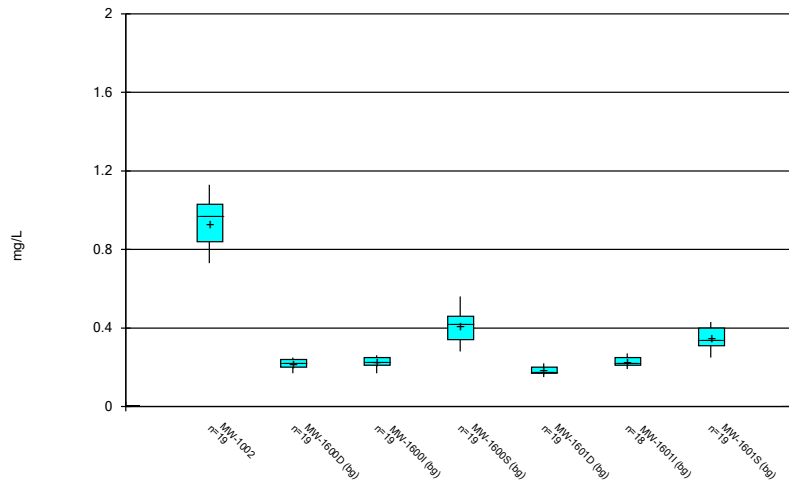
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### Box & Whiskers Plot



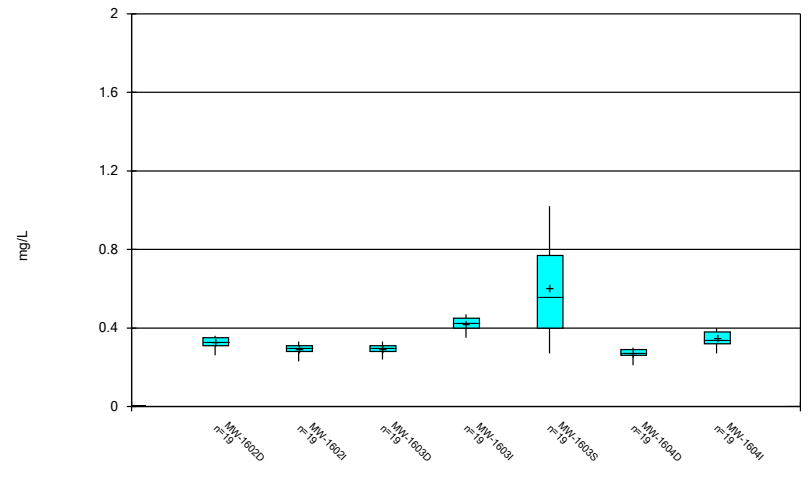
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Box & Whiskers Plot



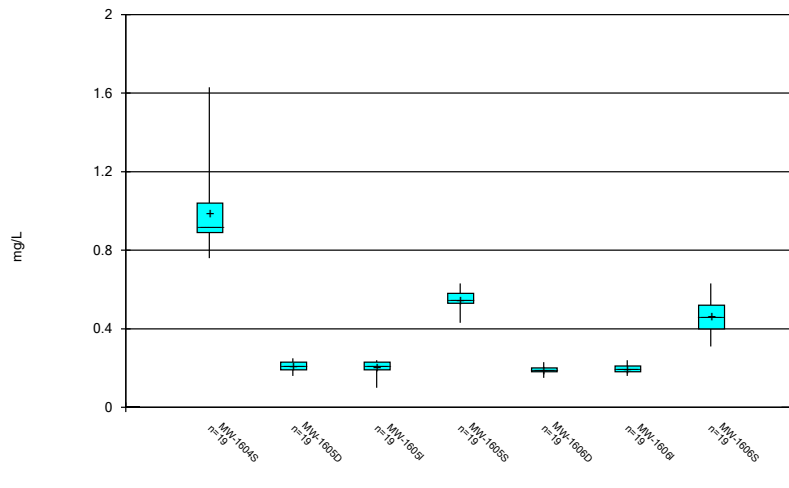
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Box & Whiskers Plot



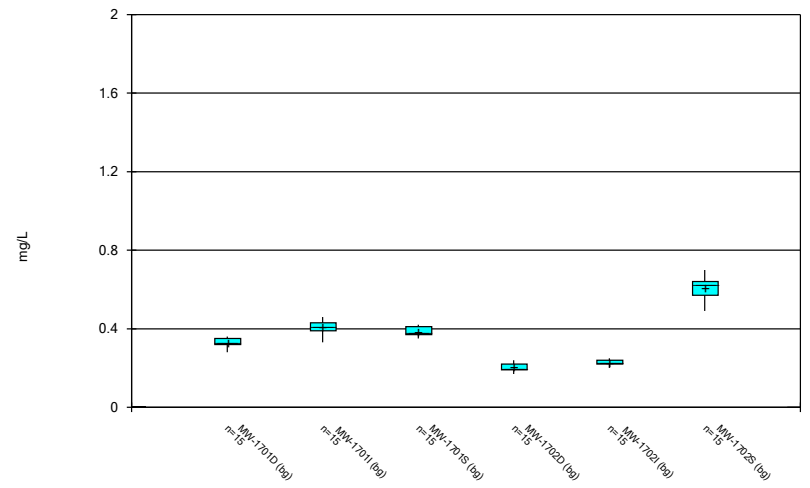
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Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 1/13/2022 4:16 PM  
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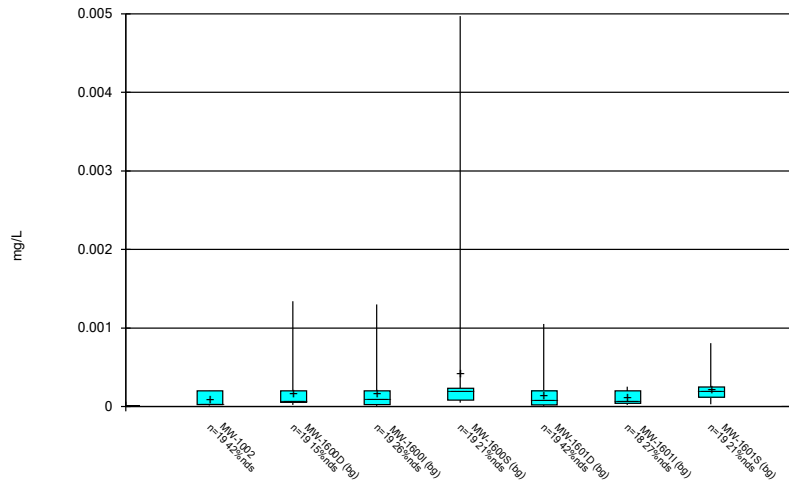
Box & Whiskers Plot



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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

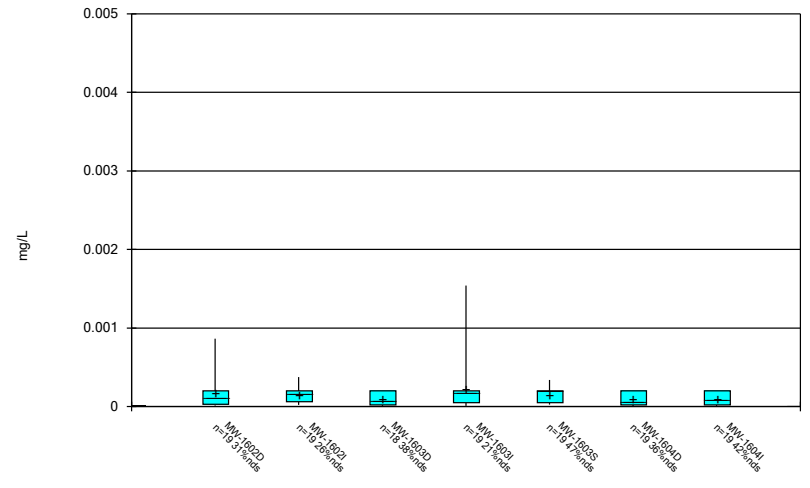


Box & Whiskers Plot



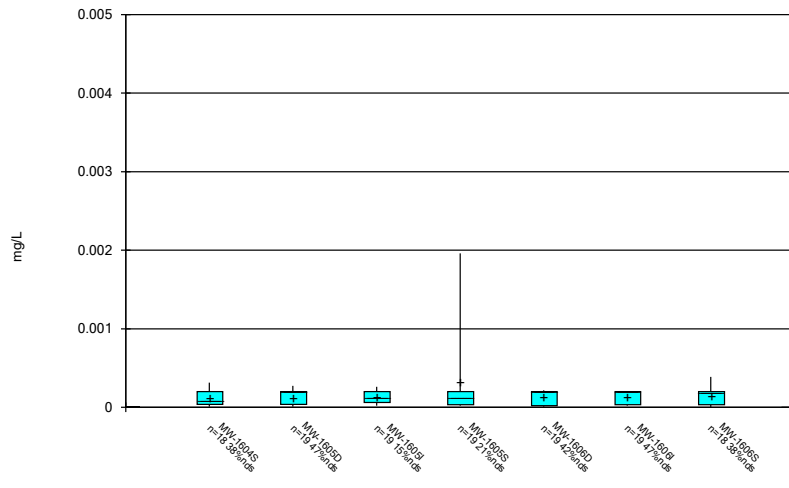
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Box & Whiskers Plot



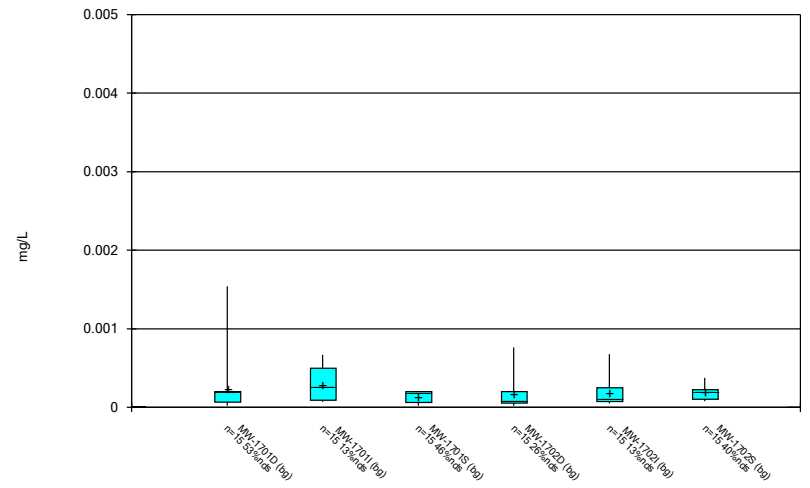
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Box & Whiskers Plot



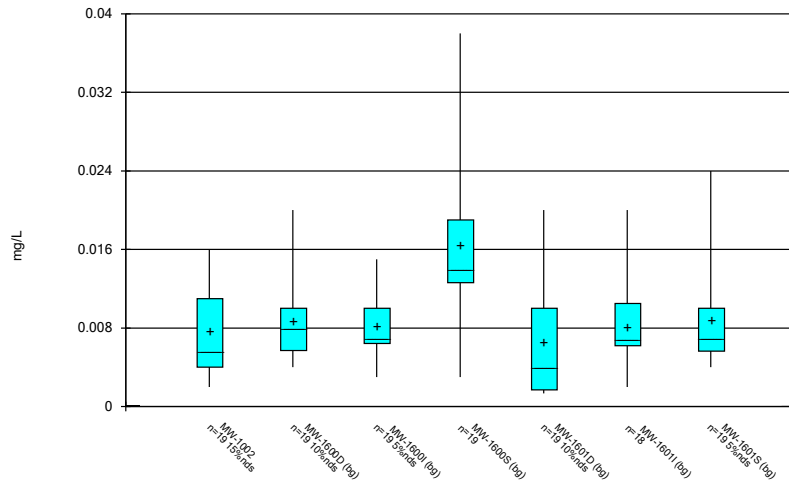
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Box & Whiskers Plot



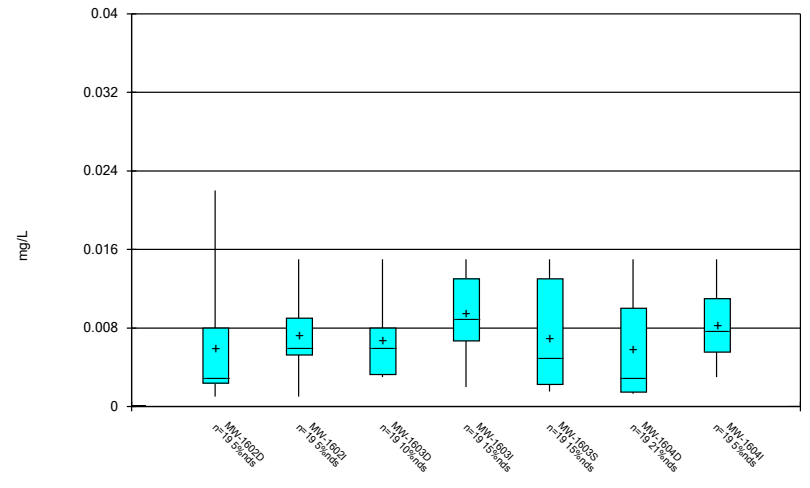
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Box & Whiskers Plot



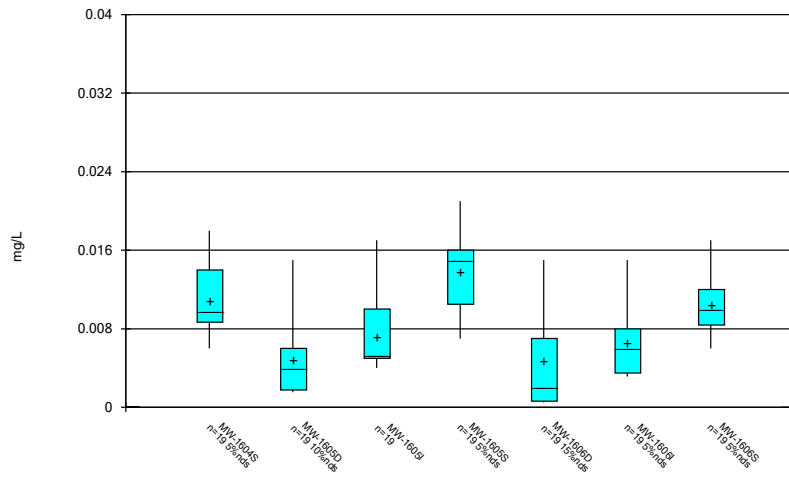
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



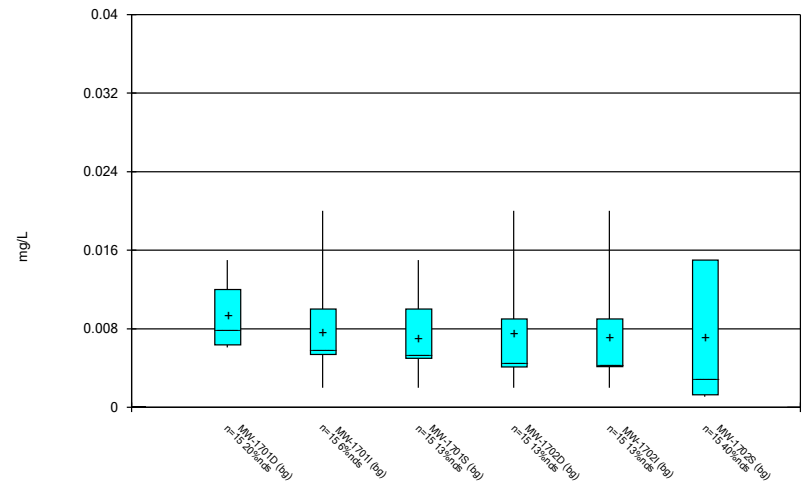
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Box & Whiskers Plot



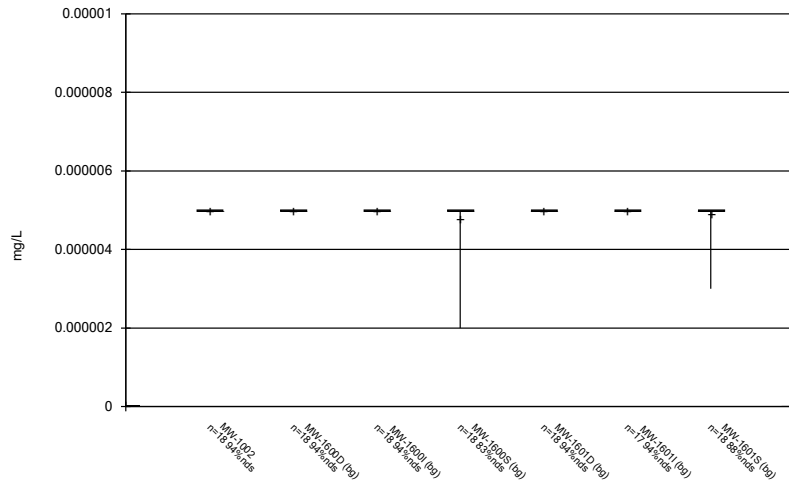
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Box & Whiskers Plot



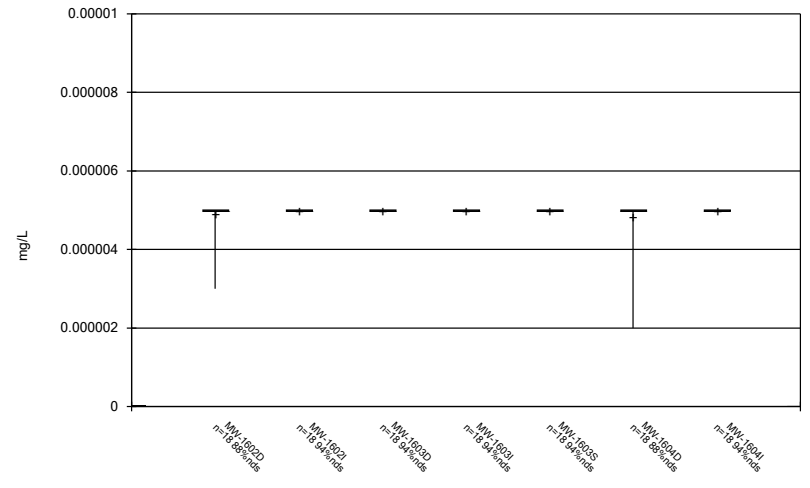
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



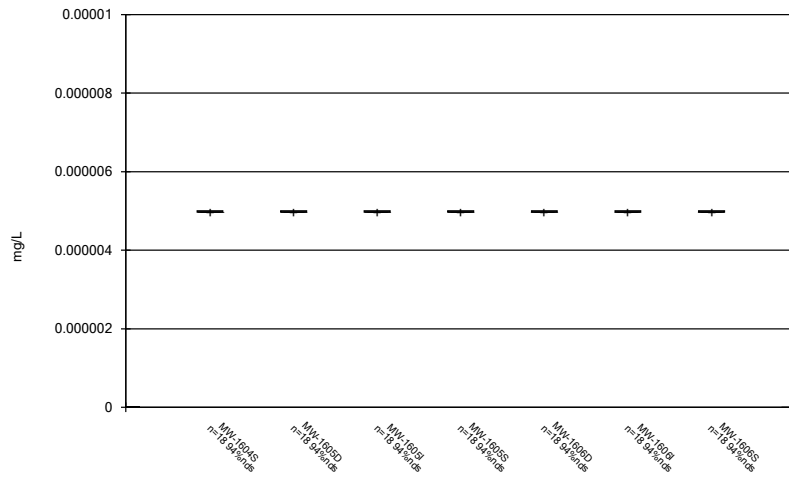
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Box & Whiskers Plot



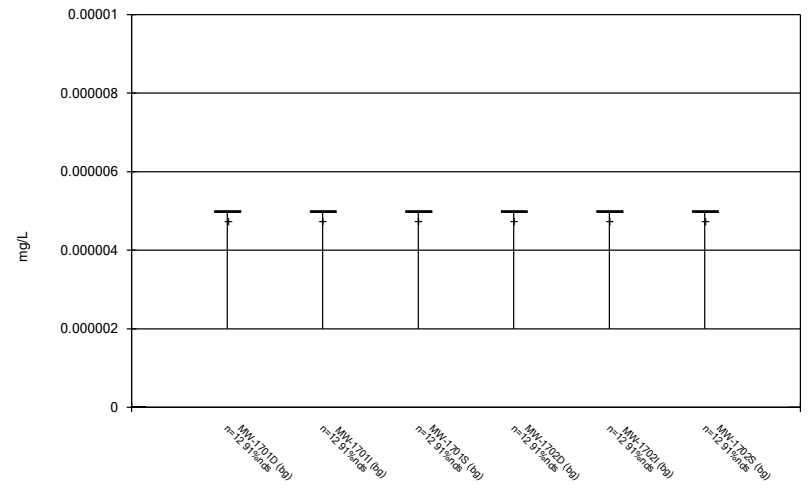
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Box & Whiskers Plot



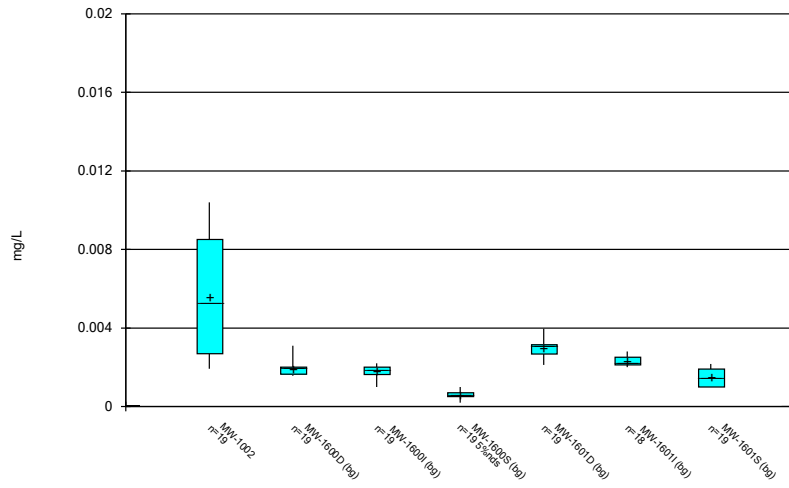
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Box & Whiskers Plot



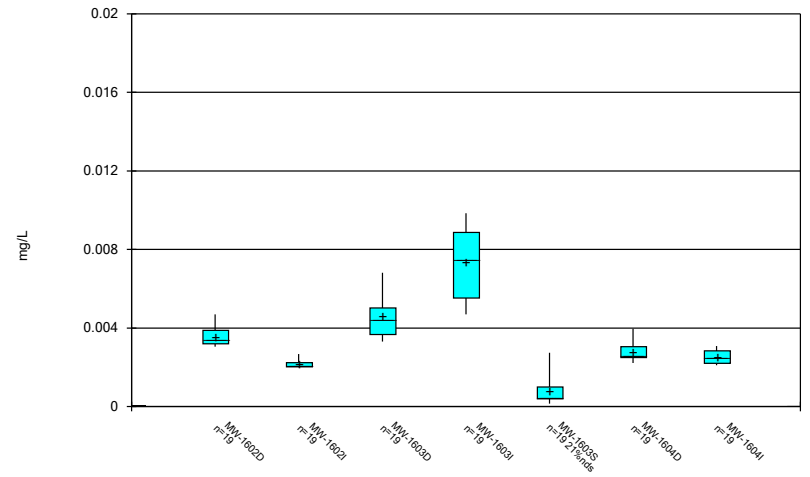
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### Box & Whiskers Plot



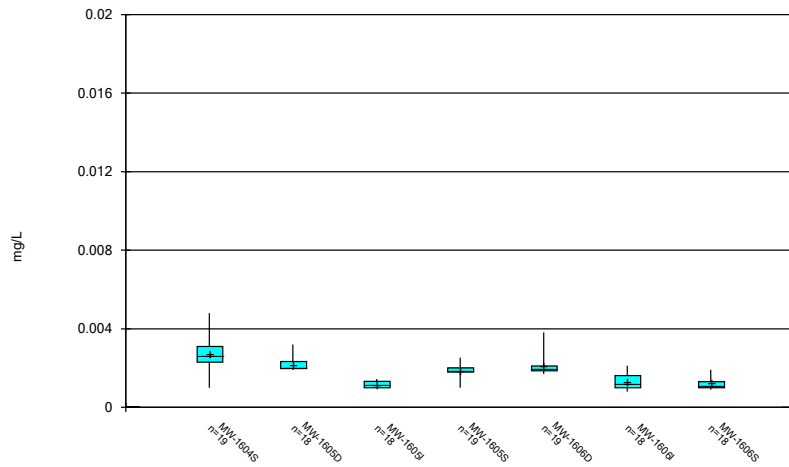
Constituent: Molybdenum, total Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



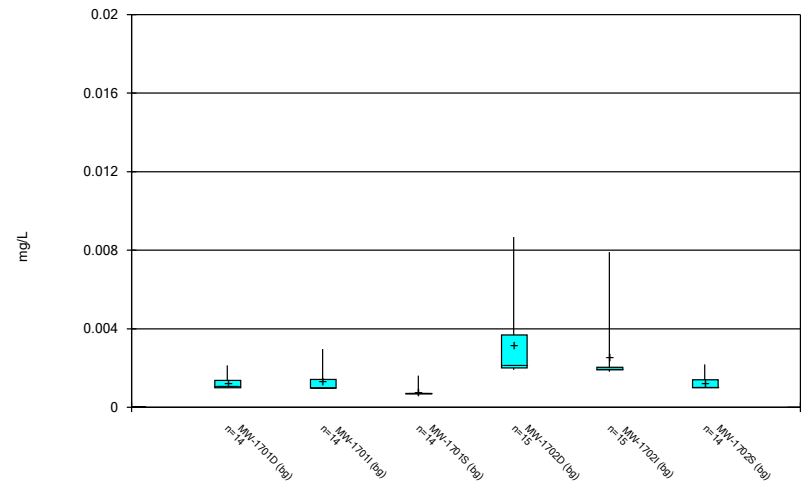
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### Box & Whiskers Plot



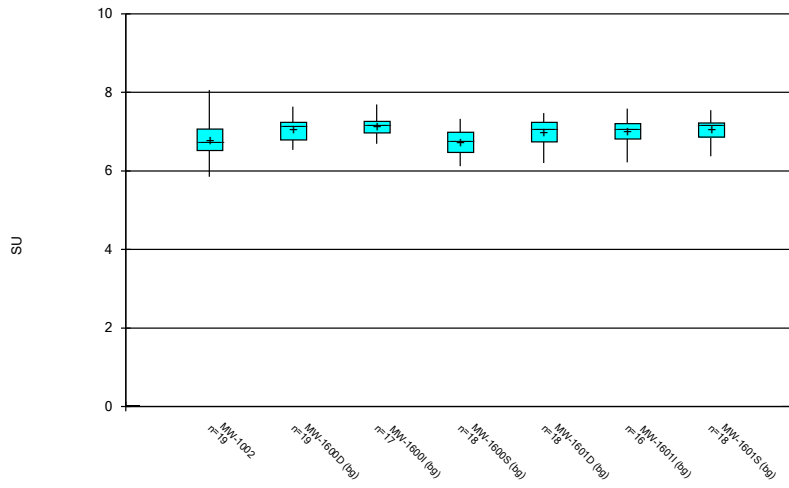
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### Box & Whiskers Plot



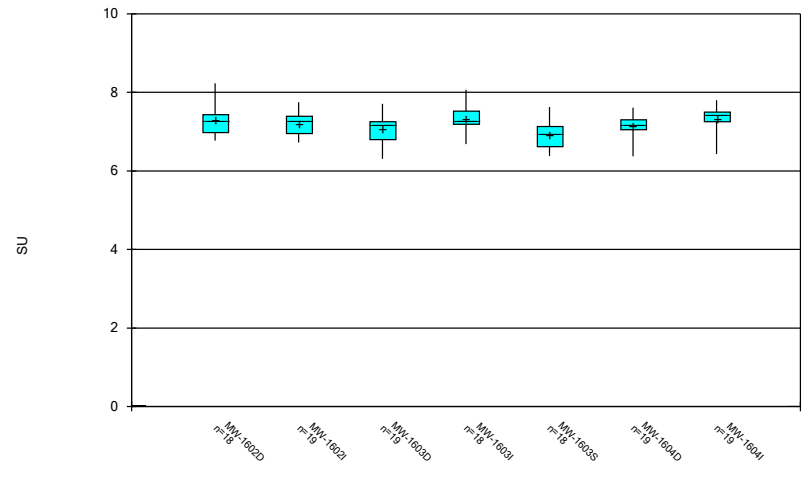
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



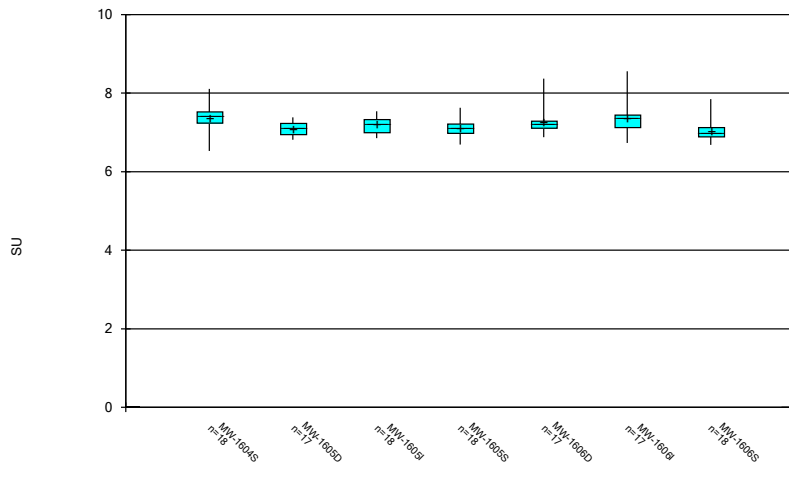
Constituent: pH, field Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



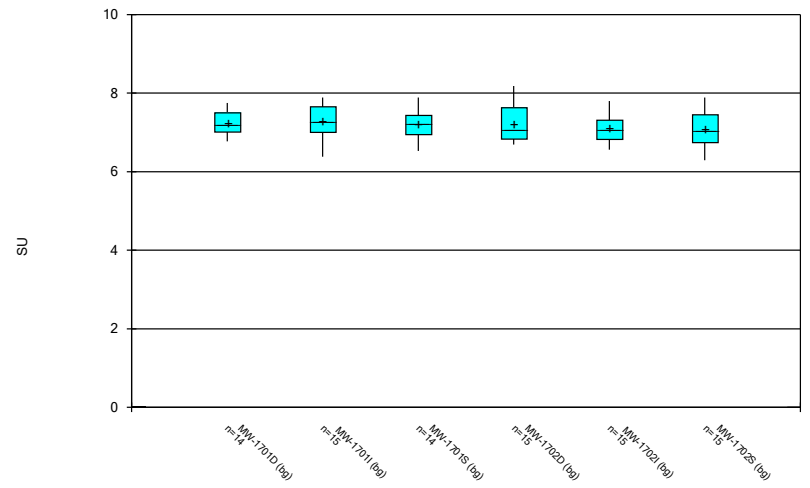
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



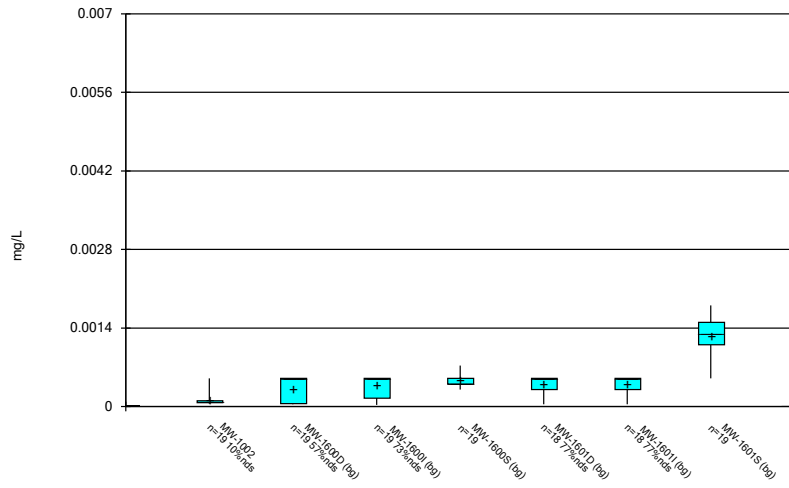
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Box & Whiskers Plot



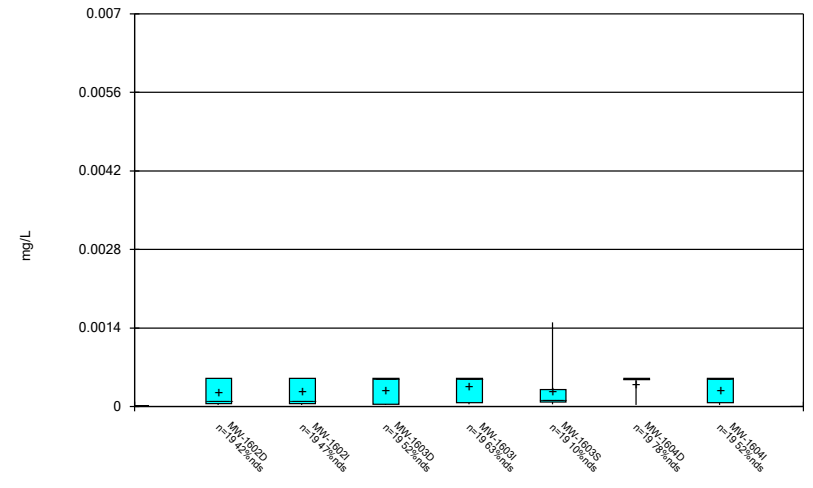
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



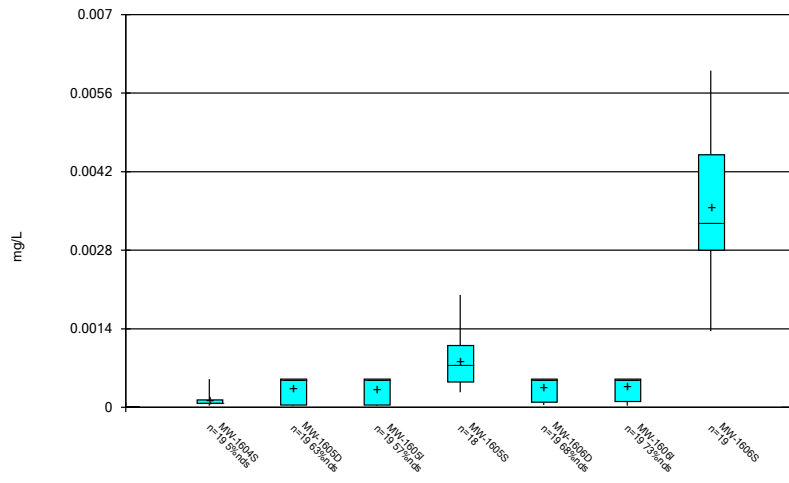
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Box & Whiskers Plot



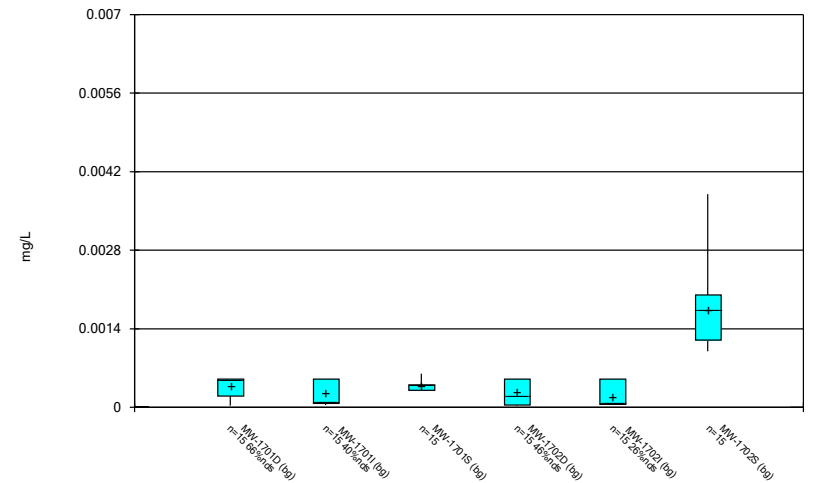
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Box & Whiskers Plot



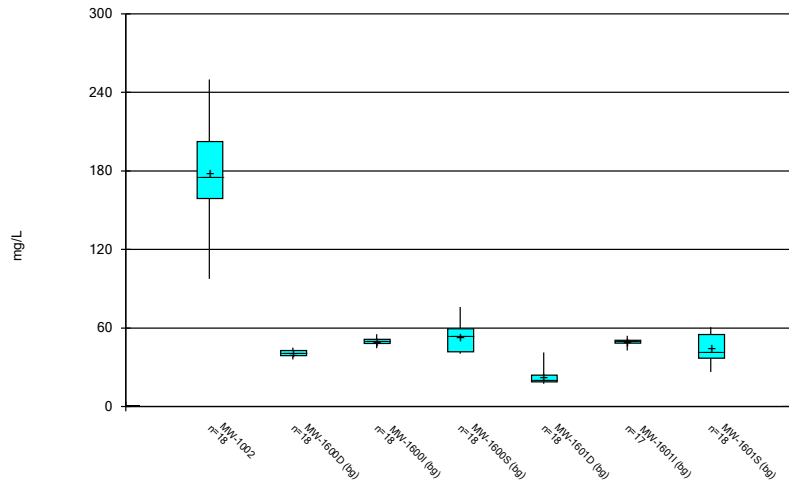
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Box & Whiskers Plot



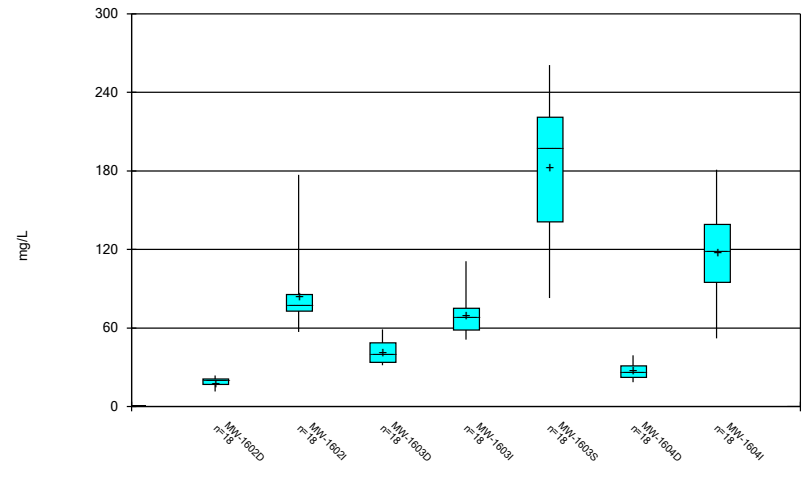
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 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



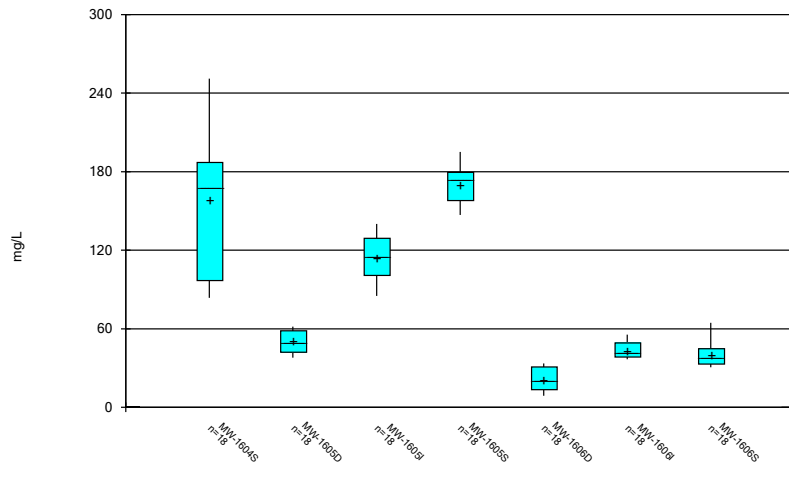
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



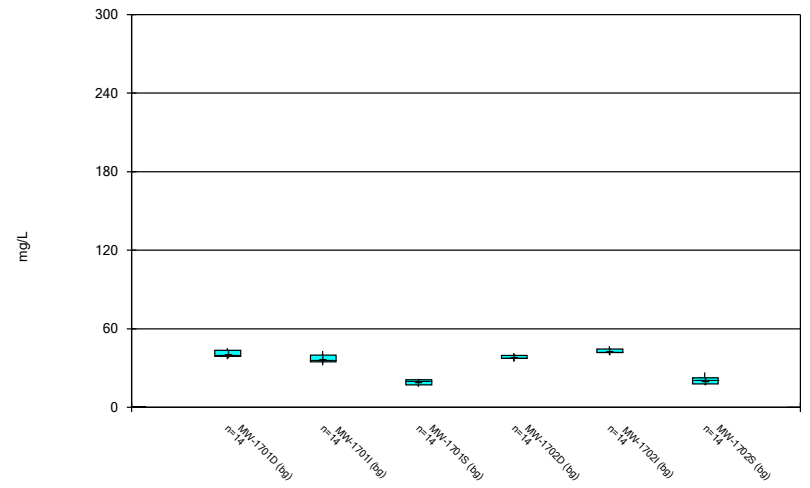
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



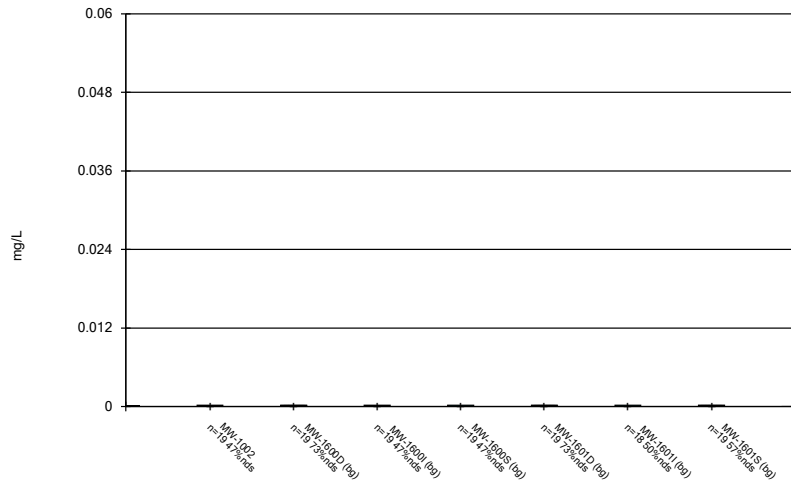
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### Box & Whiskers Plot



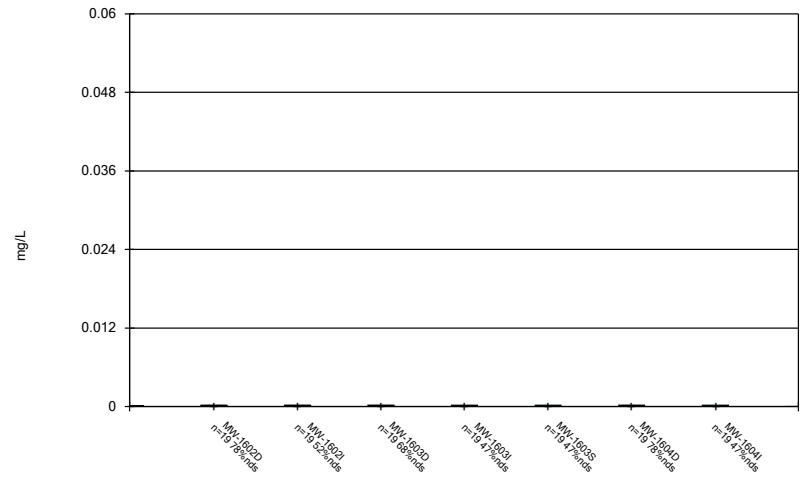
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



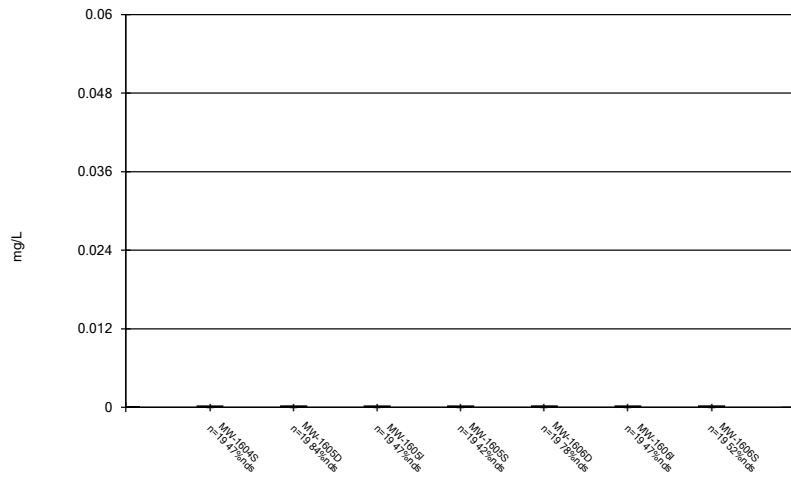
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



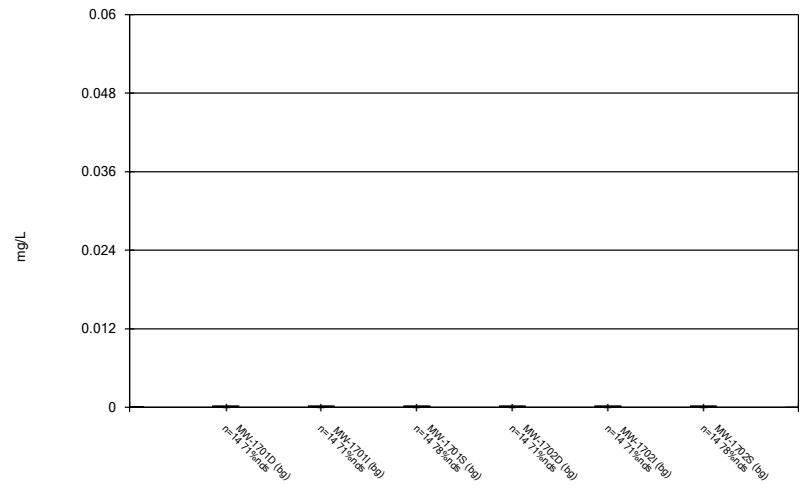
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

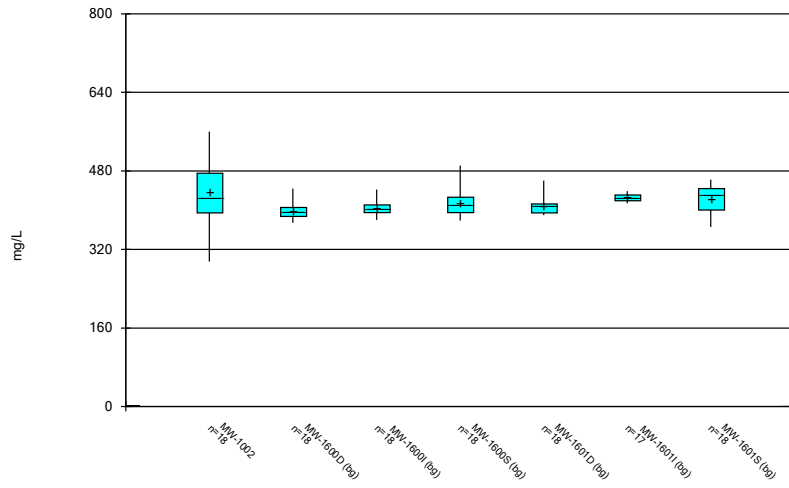
### Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

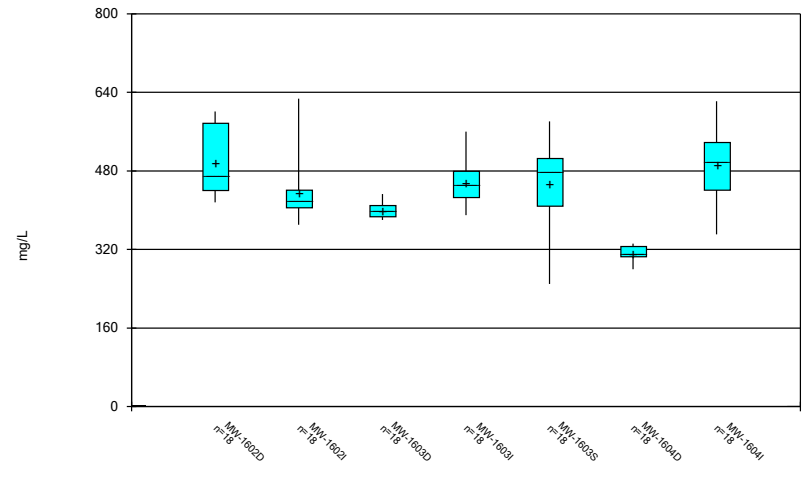


### Box & Whiskers Plot



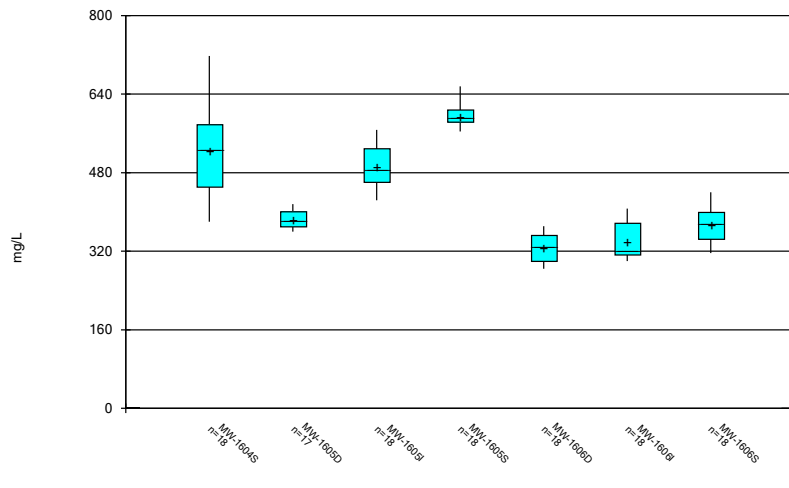
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



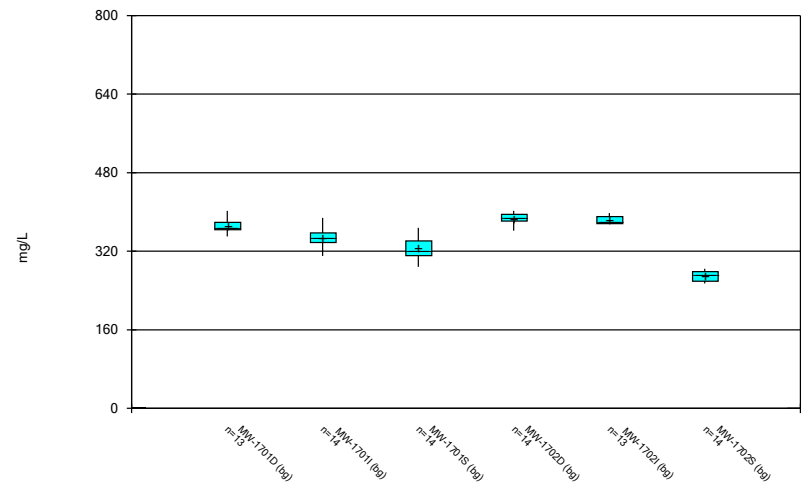
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/13/2022 4:17 PM  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP









# Tukey's Outlier Test - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 11:51 AM

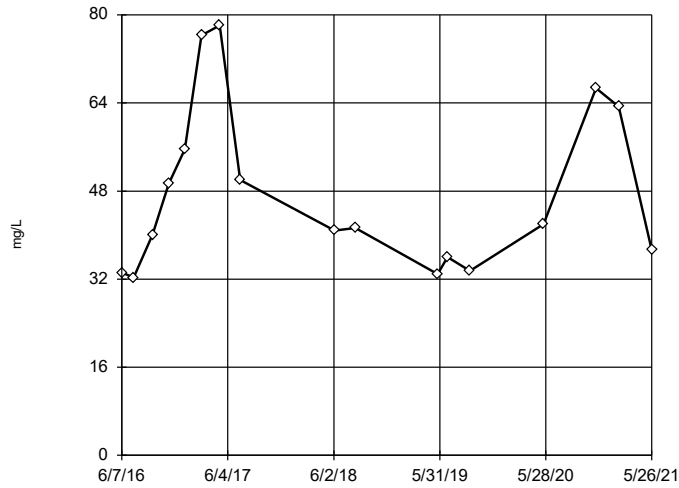
Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Calcium, total (mg/L)	MW-1602I	Yes	113	5/20/2020	NP	NaN	17	79.79	9.934	In(x)	ShapiroWilk
pH, field (SU)	MW-1600I (bg)	Yes	9.29	7/17/2017	NP	NaN	17	7.256	0.5859	In(x)	ShapiroWilk
pH, field (SU)	MW-1600S (bg)	Yes	9.46	7/17/2017	NP	NaN	18	6.912	0.7104	In(x)	ShapiroWilk
pH, field (SU)	MW-1601D (bg)	Yes	9.39	5/26/2021	NP	NaN	18	7.132	0.6521	In(x)	ShapiroWilk
pH, field (SU)	MW-1601I (bg)	Yes	9.45,9.38	7/17/2017,5/26/2021	NP	NaN	17	7.309	0.8509	In(x)	ShapiroWilk
pH, field (SU)	MW-1601S (bg)	Yes	9.41	5/26/2021	NP	NaN	18	7.212	0.619	In(x)	ShapiroWilk
pH, field (SU)	MW-1603I	Yes	9.78	7/17/2017	NP	NaN	18	7.488	0.6407	In(x)	ShapiroWilk
pH, field (SU)	MW-1603S	Yes	9.63	7/17/2017	NP	NaN	18	7.102	0.6995	In(x)	ShapiroWilk
pH, field (SU)	MW-1604S	Yes	6.53,9.09	11/13/2020,5/25/2021	NP	NaN	18	7.494	0.5006	In(x)	ShapiroWilk
pH, field (SU)	MW-1605D	Yes	9.51,8.92	7/18/2017,5/25/2021	NP	NaN	18	7.31	0.7164	In(x)	ShapiroWilk
pH, field (SU)	MW-1605I	Yes	9.48	5/26/2021	NP	NaN	18	7.296	0.5709	In(x)	ShapiroWilk
pH, field (SU)	MW-1605S	Yes	9.51	5/26/2021	NP	NaN	18	7.245	0.5987	In(x)	ShapiroWilk
pH, field (SU)	MW-1606D	Yes	5.85,8.37,8.88	7/19/2016,7/18/2017,5/25/2021	NP	NaN	18	7.299	0.6295	In(x)	ShapiroWilk
pH, field (SU)	MW-1606I	Yes	4.98,8.91	7/19/2016,5/25/2021	NP	NaN	18	7.306	0.8006	x^2	ShapiroWilk
pH, field (SU)	MW-1606S	Yes	8.55	5/25/2021	NP	NaN	18	7.134	0.4684	In(x)	ShapiroWilk
pH, field (SU)	MW-1701D (bg)	Yes	9.3	5/26/2021	NP	NaN	14	7.402	0.5971	In(x)	ShapiroWilk

# Tukey's Outlier Test - All Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 11:51 AM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Calcium, total (mg/L)	MW-1002	No	n/a	n/a	NP	NaN	17	47.58	15.22	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1600D (bg)	No	n/a	n/a	NP	NaN	17	84.01	5.611	x^4	ShapiroWilk
Calcium, total (mg/L)	MW-1600I (bg)	No	n/a	n/a	NP	NaN	17	76.08	3.443	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1600S (bg)	No	n/a	n/a	NP	NaN	17	64.02	4.025	x^(1/3)	ShapiroWilk
Calcium, total (mg/L)	MW-1601D (bg)	No	n/a	n/a	NP	NaN	17	86.54	3.609	x^6	ShapiroWilk
Calcium, total (mg/L)	MW-1601I (bg)	No	n/a	n/a	NP	NaN	16	87.09	4.225	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1601S (bg)	No	n/a	n/a	NP	NaN	17	76.49	4.585	normal	ShapiroWilk
Calcium, total (mg/L)	MW-1602D	No	n/a	n/a	NP	NaN	17	69.32	5.422	x^2	ShapiroWilk
<b>Calcium, total (mg/L)</b>	<b>MW-1602I</b>	<b>Yes</b>	<b>113</b>	<b>5/20/2020</b>	<b>NP</b>	<b>NaN</b>	<b>17</b>	<b>79.79</b>	<b>9.934</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
Calcium, total (mg/L)	MW-1603D	No	n/a	n/a	NP	NaN	17	82.04	6.064	normal	ShapiroWilk
Calcium, total (mg/L)	MW-1603I	No	n/a	n/a	NP	NaN	17	85.74	7.743	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1603S	No	n/a	n/a	NP	NaN	17	58.28	17.39	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1604D	No	n/a	n/a	NP	NaN	17	70.25	2.921	x^3	ShapiroWilk
Calcium, total (mg/L)	MW-1604I	No	n/a	n/a	NP	NaN	17	71.52	7.072	x^5	ShapiroWilk
Calcium, total (mg/L)	MW-1604S	No	n/a	n/a	NP	NaN	17	75.89	16.67	normal	ShapiroWilk
Calcium, total (mg/L)	MW-1605D	No	n/a	n/a	NP	NaN	17	83.99	5.192	normal	ShapiroWilk
Calcium, total (mg/L)	MW-1605I	No	n/a	n/a	NP	NaN	17	85.69	8.627	x^(1/3)	ShapiroWilk
Calcium, total (mg/L)	MW-1605S	No	n/a	n/a	NP	NaN	17	73.91	8.55	x^5	ShapiroWilk
Calcium, total (mg/L)	MW-1606D	No	n/a	n/a	NP	NaN	17	76.49	5.893	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1606I	No	n/a	n/a	NP	NaN	17	69.76	8.869	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1606S	No	n/a	n/a	NP	NaN	17	49.4	8.022	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1701D (bg)	No	n/a	n/a	NP	NaN	13	71.18	2.974	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1701I (bg)	No	n/a	n/a	NP	NaN	13	67.03	4.354	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1701S (bg)	No	n/a	n/a	NP	NaN	13	61.21	4.394	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1702D (bg)	No	n/a	n/a	NP	NaN	13	81.48	4.471	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1702I (bg)	No	n/a	n/a	NP	NaN	13	77.49	3.405	ln(x)	ShapiroWilk
Calcium, total (mg/L)	MW-1702S (bg)	No	n/a	n/a	NP	NaN	13	34.43	3.162	x^6	ShapiroWilk
pH, field (SU)	MW-1002	No	n/a	n/a	NP	NaN	18	6.791	0.4977	ln(x)	ShapiroWilk
pH, field (SU)	MW-1600D (bg)	No	n/a	n/a	NP	NaN	18	7.092	0.3309	x^3	ShapiroWilk
<b>pH, field (SU)</b>	<b>MW-1600I (bg)</b>	<b>Yes</b>	<b>9.29</b>	<b>7/17/2017</b>	<b>NP</b>	<b>NaN</b>	<b>17</b>	<b>7.256</b>	<b>0.5859</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1600S (bg)</b>	<b>Yes</b>	<b>9.46</b>	<b>7/17/2017</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>6.912</b>	<b>0.7104</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1601D (bg)</b>	<b>Yes</b>	<b>9.39</b>	<b>5/26/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.132</b>	<b>0.6521</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1601I (bg)</b>	<b>Yes</b>	<b>9.45,9.38</b>	<b>7/17/2017,5/26/2021</b>	<b>NP</b>	<b>NaN</b>	<b>17</b>	<b>7.309</b>	<b>0.8509</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1601S (bg)</b>	<b>Yes</b>	<b>9.41</b>	<b>5/26/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.212</b>	<b>0.619</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
pH, field (SU)	MW-1602D	No	n/a	n/a	NP	NaN	18	7.163	0.6293	x^5	ShapiroWilk
pH, field (SU)	MW-1602I	No	n/a	n/a	NP	NaN	18	7.236	0.2723	sqrt(x)	ShapiroWilk
pH, field (SU)	MW-1603D	No	n/a	n/a	NP	NaN	18	7.109	0.3306	x^5	ShapiroWilk
<b>pH, field (SU)</b>	<b>MW-1603I</b>	<b>Yes</b>	<b>9.78</b>	<b>7/17/2017</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.488</b>	<b>0.6407</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1603S</b>	<b>Yes</b>	<b>9.63</b>	<b>7/17/2017</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.102</b>	<b>0.6995</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
pH, field (SU)	MW-1604D	No	n/a	n/a	NP	NaN	18	7.118	0.2794	x^6	ShapiroWilk
pH, field (SU)	MW-1604I	No	n/a	n/a	NP	NaN	18	7.327	0.3013	x^6	ShapiroWilk
<b>pH, field (SU)</b>	<b>MW-1604S</b>	<b>Yes</b>	<b>6.53,9.09</b>	<b>11/13/2020,5/25/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.494</b>	<b>0.5006</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1605D</b>	<b>Yes</b>	<b>9.51,8.92</b>	<b>7/18/2017,5/25/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.31</b>	<b>0.7164</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1605I</b>	<b>Yes</b>	<b>9.48</b>	<b>5/26/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.296</b>	<b>0.5709</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1605S</b>	<b>Yes</b>	<b>9.51</b>	<b>5/26/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.245</b>	<b>0.5987</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1606D</b>	<b>Yes</b>	<b>5.85,8.37,8.88</b>	<b>7/19/2016,7/18/2017,5/25/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.299</b>	<b>0.6295</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1606I</b>	<b>Yes</b>	<b>4.98,8.91</b>	<b>7/19/2016,5/25/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.306</b>	<b>0.8006</b>	<b>x^2</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1606S</b>	<b>Yes</b>	<b>8.55</b>	<b>5/25/2021</b>	<b>NP</b>	<b>NaN</b>	<b>18</b>	<b>7.134</b>	<b>0.4684</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
<b>pH, field (SU)</b>	<b>MW-1701D (bg)</b>	<b>Yes</b>	<b>9.3</b>	<b>5/26/2021</b>	<b>NP</b>	<b>NaN</b>	<b>14</b>	<b>7.402</b>	<b>0.5971</b>	<b>ln(x)</b>	<b>ShapiroWilk</b>
pH, field (SU)	MW-1701I (bg)	No	n/a	n/a	NP	NaN	14	7.363	0.3406	ln(x)	ShapiroWilk
pH, field (SU)	MW-1701S (bg)	No	n/a	n/a	NP	NaN	13	7.251	0.3541	ln(x)	ShapiroWilk
pH, field (SU)	MW-1702D (bg)	No	n/a	n/a	NP	NaN	14	7.247	0.4578	ln(x)	ShapiroWilk
pH, field (SU)	MW-1702I (bg)	No	n/a	n/a	NP	NaN	14	7.149	0.3987	ln(x)	ShapiroWilk
pH, field (SU)	MW-1702S (bg)	No	n/a	n/a	NP	NaN	14	7.087	0.4777	x^(1/3)	ShapiroWilk

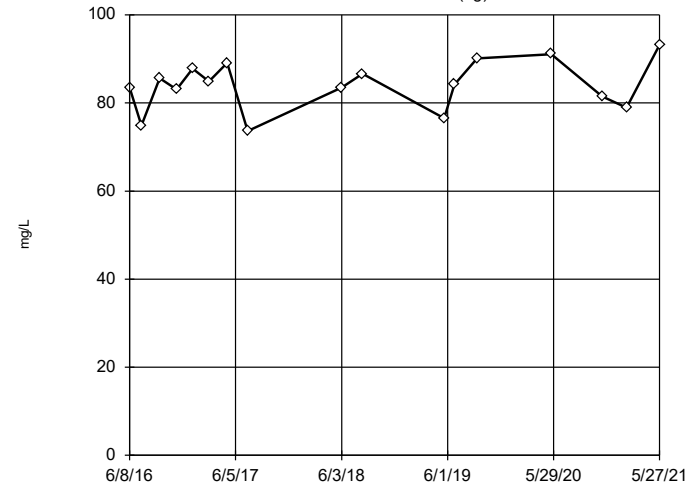
Tukey's Outlier Screening  
MW-1002



n = 17  
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 = 295.8, low cutoff = 6.966, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

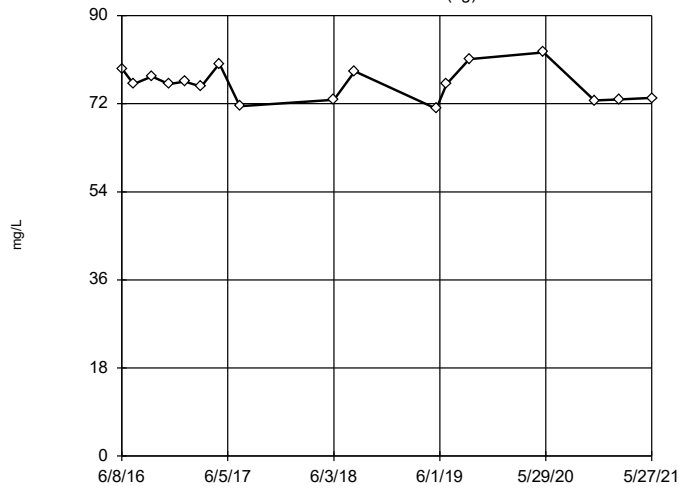
Tukey's Outlier Screening  
MW-1600D (bg)



n = 17  
No outliers found. Tukey's method selected by user.  
Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 104.8, low cutoff = -65.07, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

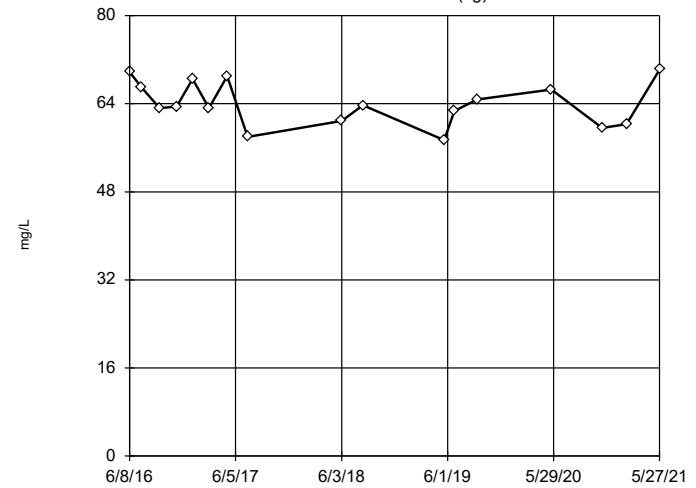
Tukey's Outlier Screening  
MW-1600I (bg)



n = 17  
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 = 100.2, low cutoff = 57.35, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1600S (bg)



n = 17  
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 = 92.52, low cutoff = 42.21, based on IQR multiplier of 3.

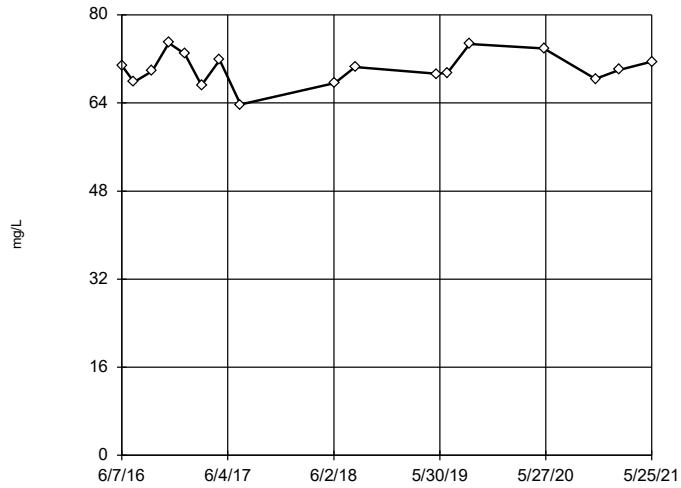
Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP







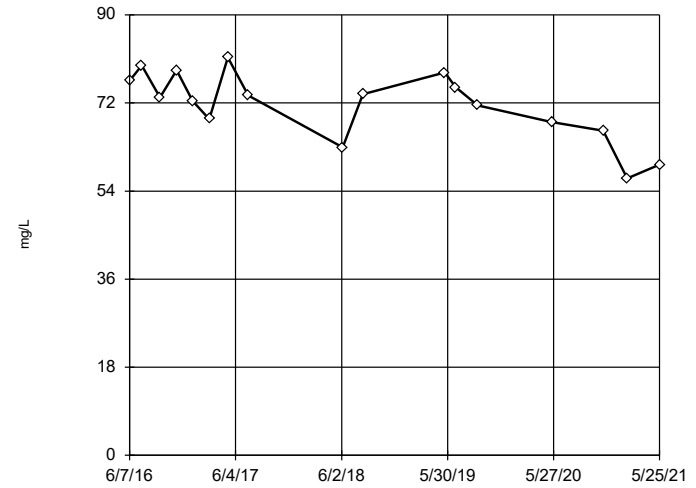
Tukey's Outlier Screening  
MW-1604D



n = 17  
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 = 82.8, low cutoff = 50.27, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

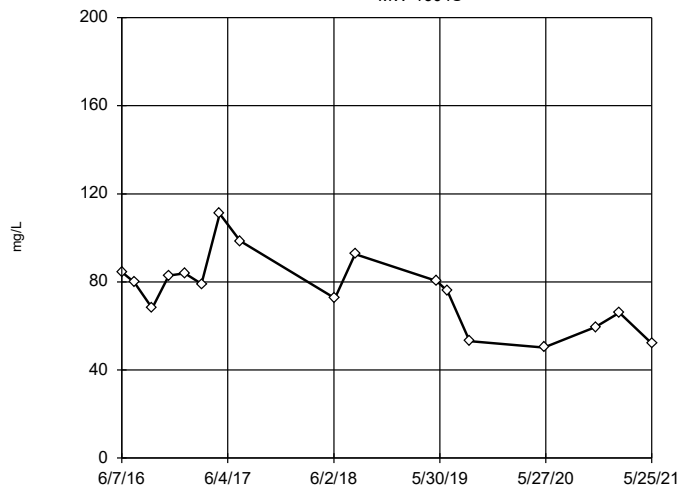
Tukey's Outlier Screening  
MW-1604I



n = 17  
No outliers found. Tukey's method selected by user.  
Data were x^5 transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 93.04, low cutoff = -77.66, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

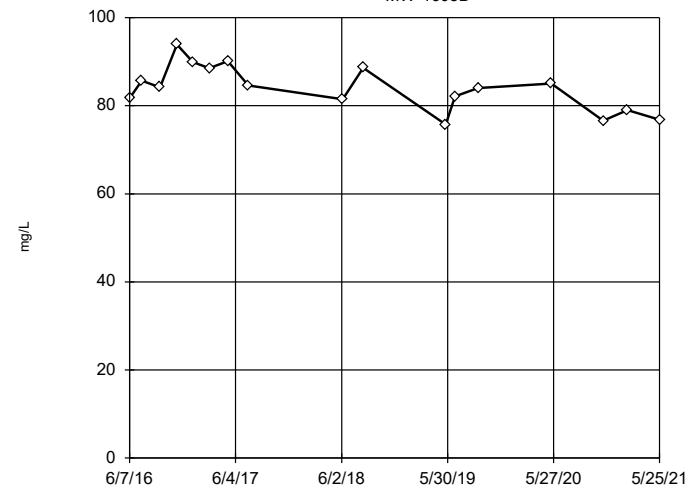
Tukey's Outlier Screening  
MW-1604S



n = 17  
No outliers found. Tukey's method selected by user.  
Ladder of Powers transformations did not improve normality; analysis run on raw data.  
High cutoff = 148.6, low cutoff = -1.6, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

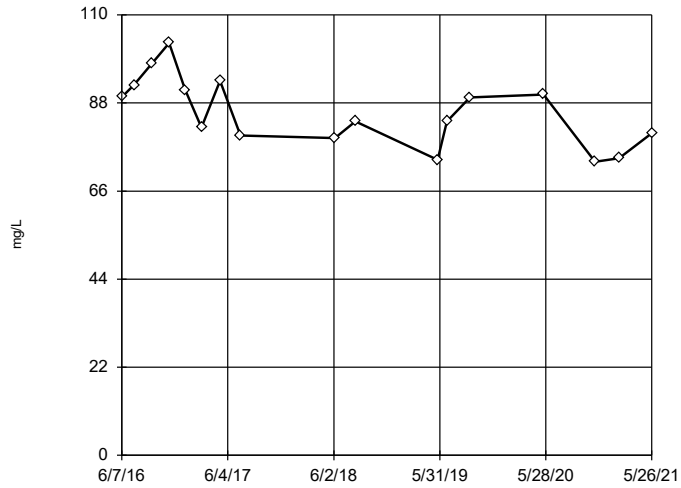
Tukey's Outlier Screening  
MW-1605D



n = 17  
No outliers found. Tukey's method selected by user.  
Ladder of Powers transformations did not improve normality; analysis run on raw data.  
High cutoff = 113.5, low cutoff = 55.35, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

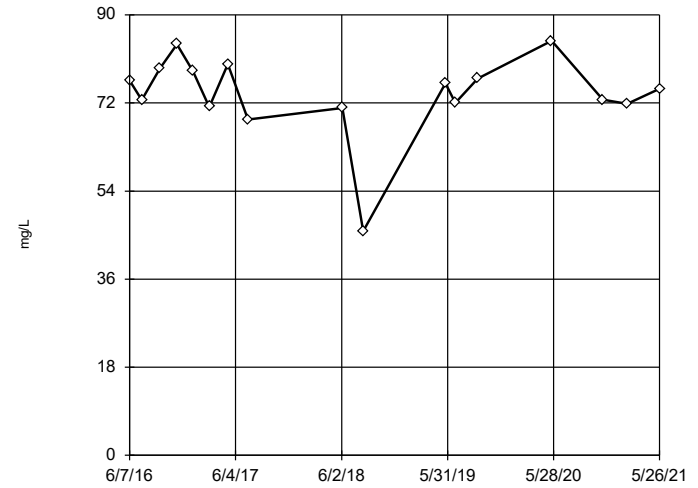
Tukey's Outlier Screening  
MW-1605I



n = 17  
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 = 136.5, low cutoff = 49.23, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

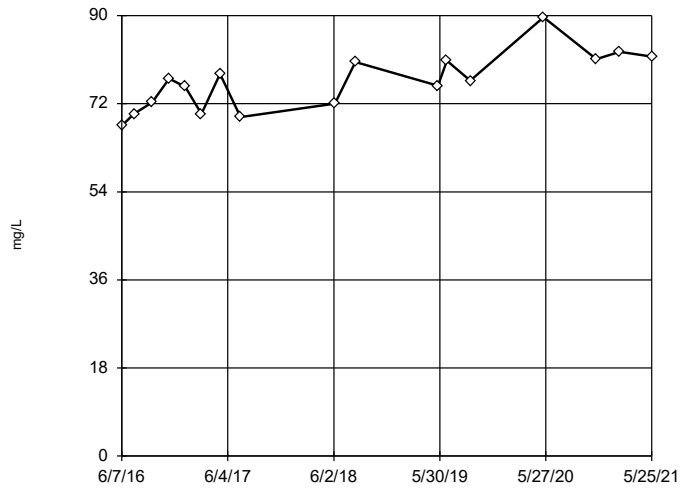
Tukey's Outlier Screening  
MW-1605S



n = 17  
No outliers found. Tukey's method selected by user.  
Data were x<sup>5</sup> transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 91.88, low cutoff = -69.66, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

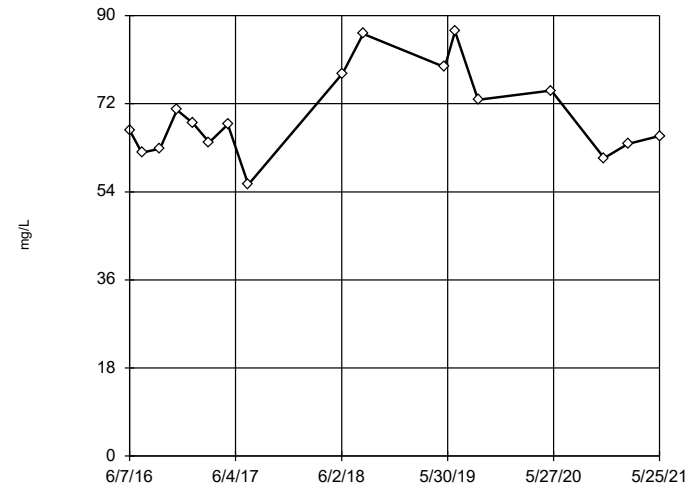
Tukey's Outlier Screening  
MW-1606D



n = 17  
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 = 120.3, low cutoff = 47.75, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1606I

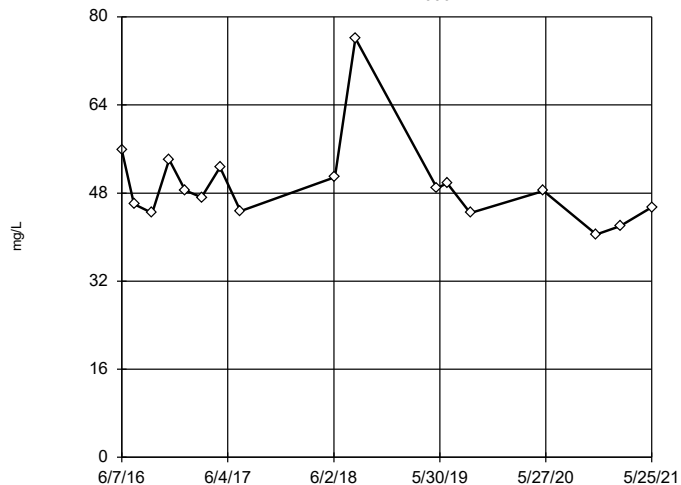


n = 17  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 134.6, low cutoff = 35.96, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening

MW-1606S



n = 17

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

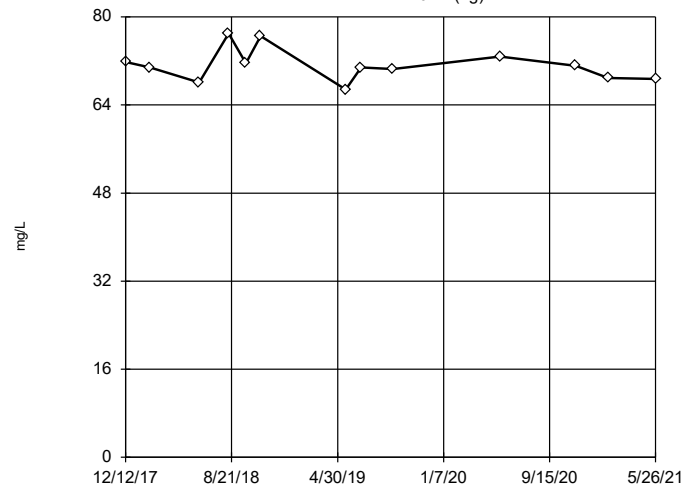
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 81.38, low cutoff = 28.35, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening

MW-1701D (bg)



n = 13

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

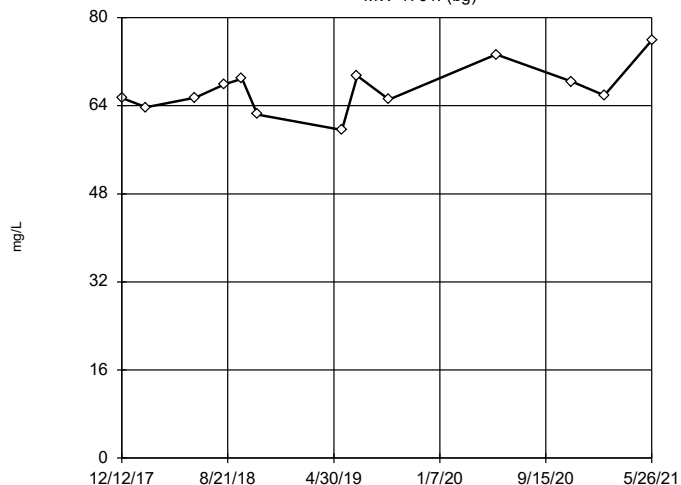
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 83.9, low cutoff = 59.29, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening

MW-1701I (bg)



n = 13

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

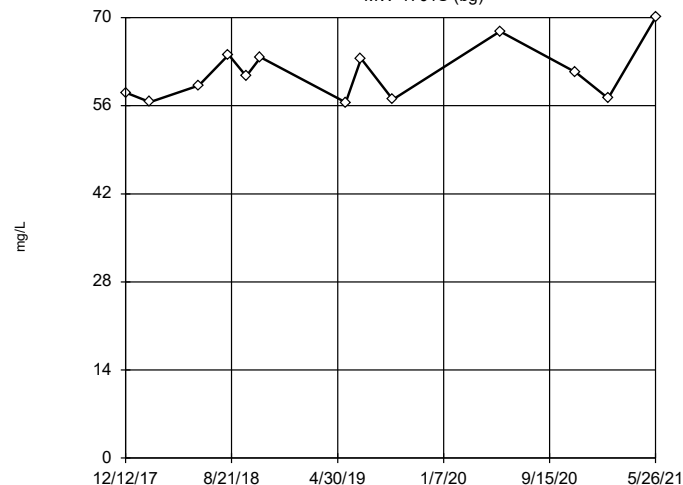
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 85.62, low cutoff = 52.01, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening

MW-1701S (bg)



n = 13

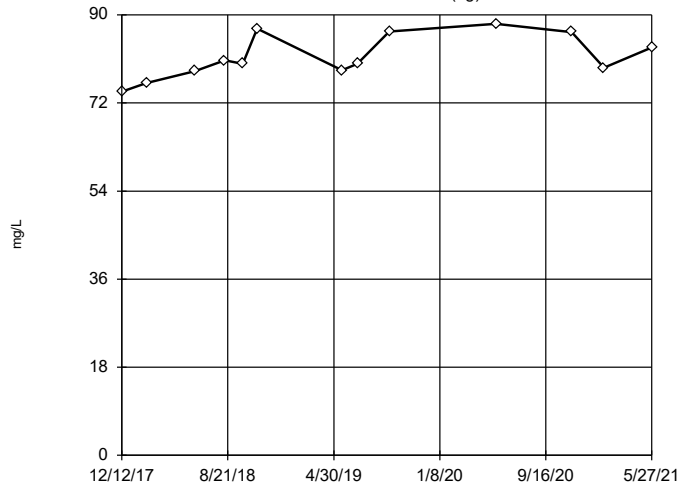
No outliers found. Tukey's method selected by user.

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

High cutoff = 89.55, low cutoff = 40.74, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:49 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

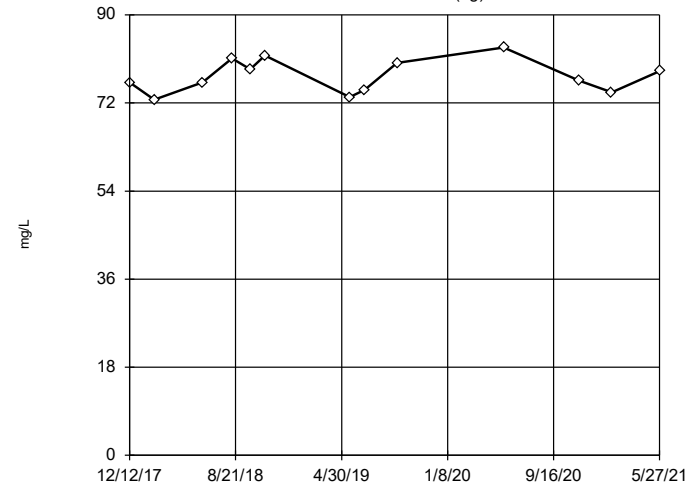
Tukey's Outlier Screening  
MW-1702D (bg)



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 = 115.6, low cutoff = 58.87, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

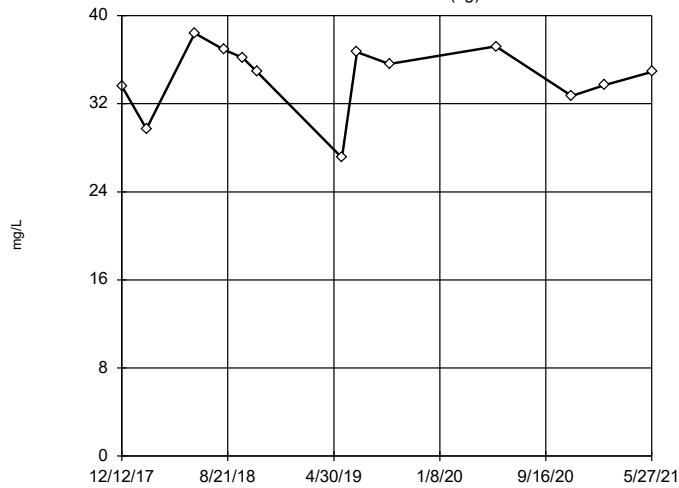
Tukey's Outlier Screening  
MW-1702I (bg)



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 = 102.5, low cutoff = 58.57, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

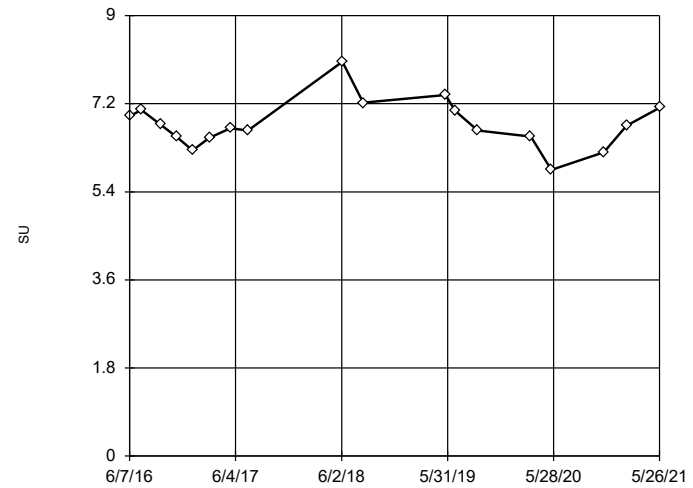
Tukey's Outlier Screening  
MW-1702S (bg)



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 = 42.56, low cutoff = -35.87, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1002

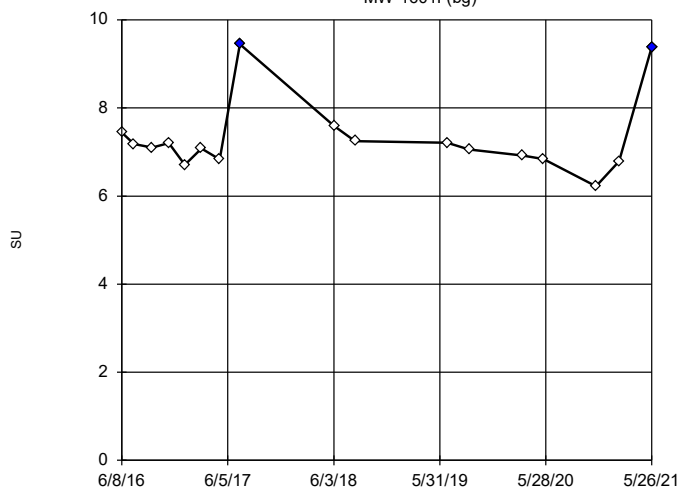


n = 18  
No outliers found. Tukey's method selected by user.  
Data were natural log transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 9.185, low cutoff = 5.029, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



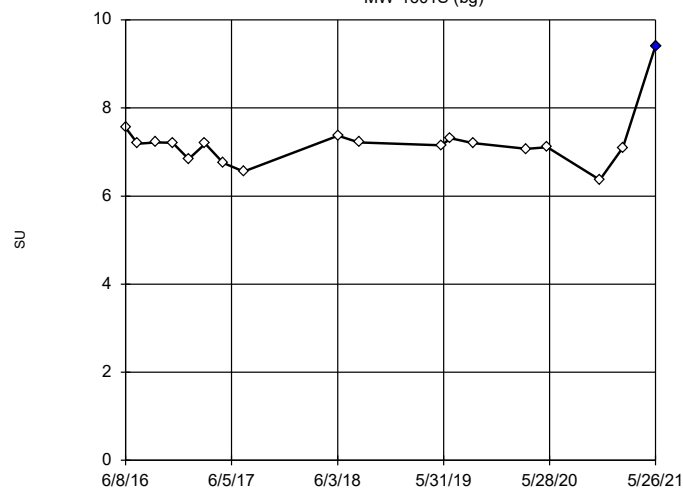
Tukey's Outlier Screening  
MW-16011 (bg)



n = 17  
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 = 9.112, low cutoff = 5.509, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

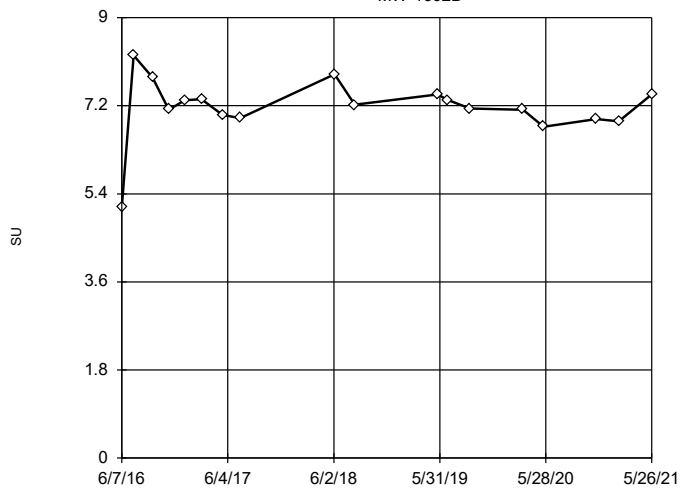
Tukey's Outlier Screening  
MW-1601S (bg)



n = 18  
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 = 8.283, low cutoff = 6.099, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

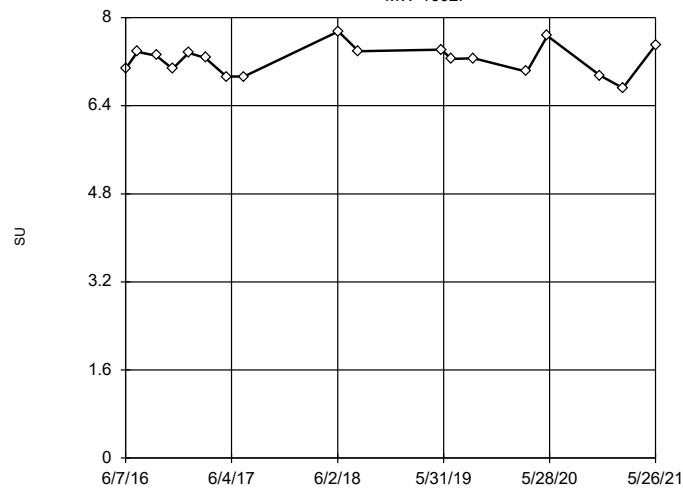
Tukey's Outlier Screening  
MW-1602D



n = 18  
No outliers found.  
Tukey's method selected by user.  
Data were x\*5 transformed to achieve best W statistic (graph shown in original units).  
High cutoff = 8.418, low cutoff = -5.124, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1602I



n = 18  
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 = 8.739, low cutoff = 5.798, based on IQR multiplier of 3.

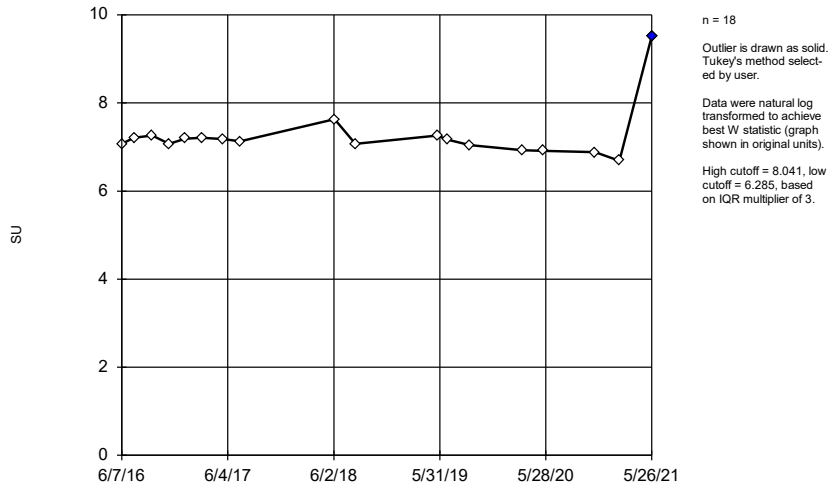
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP





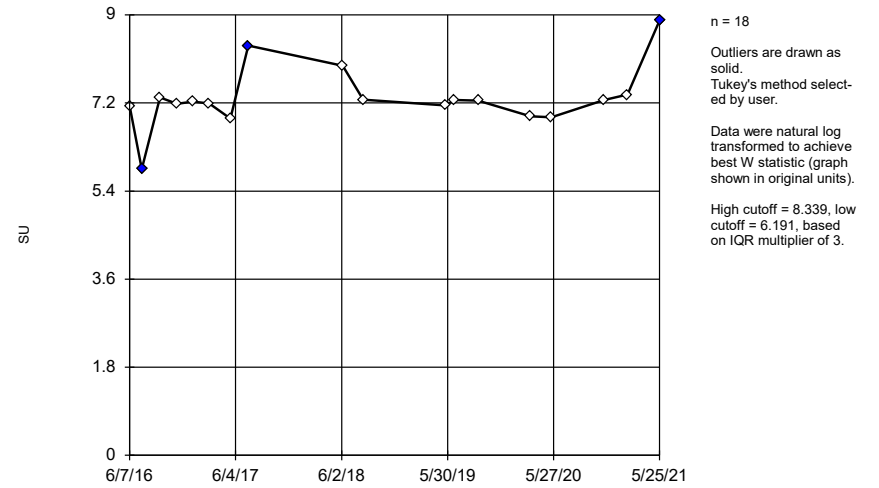


### Tukey's Outlier Screening MW-1605S



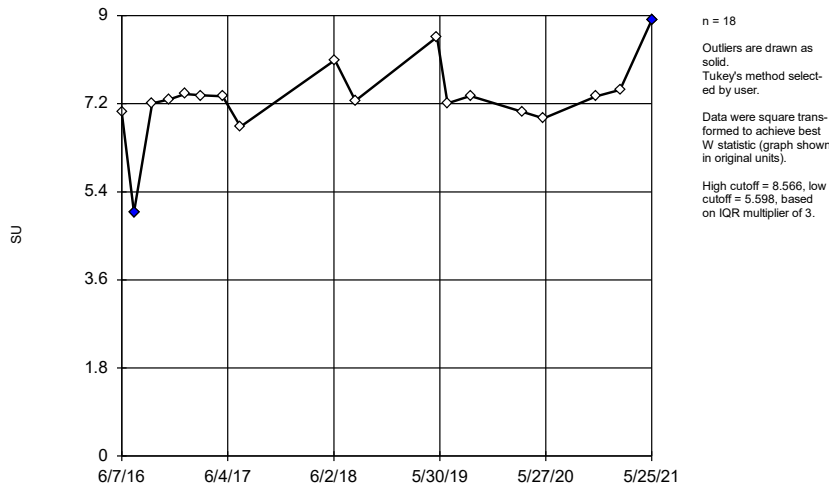
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening MW-1606D



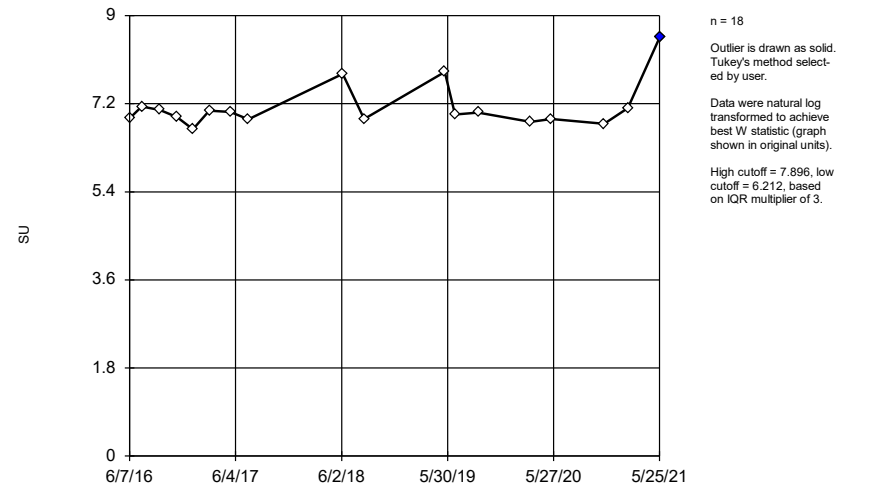
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening MW-1606I



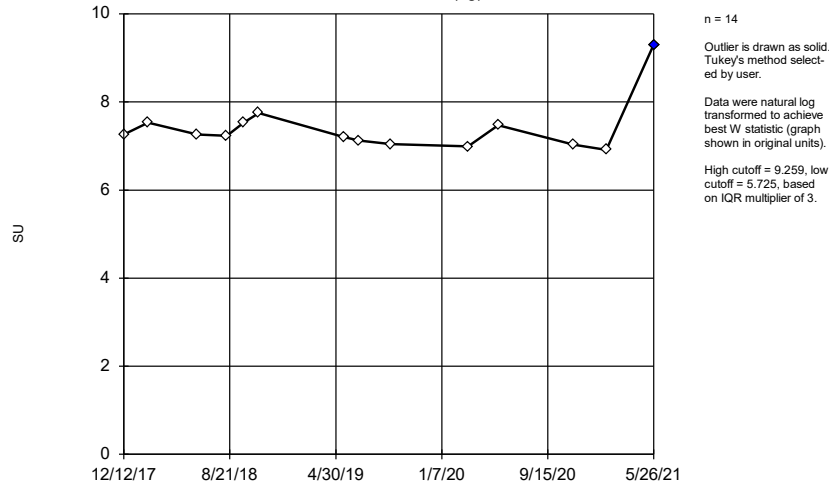
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening MW-1606S



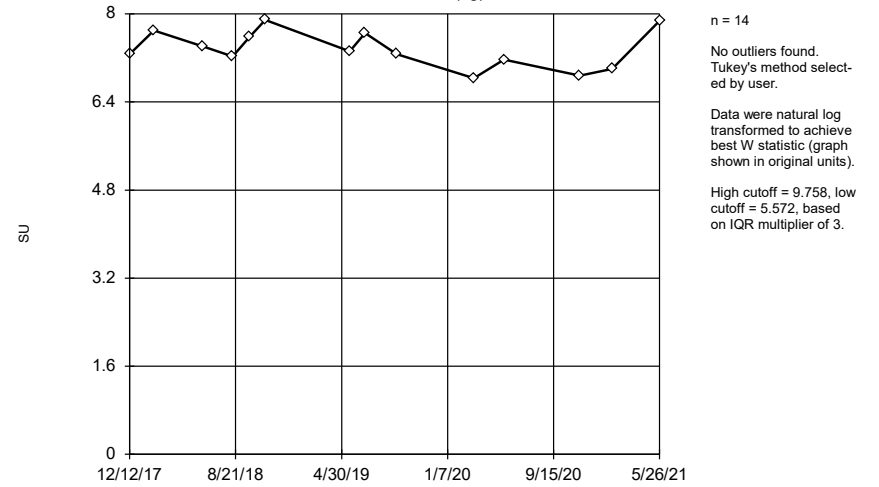
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1701D (bg)



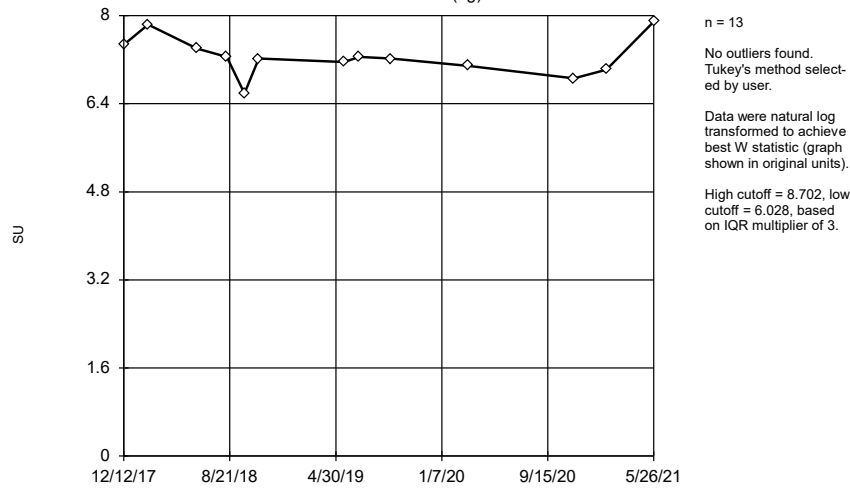
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1701I (bg)



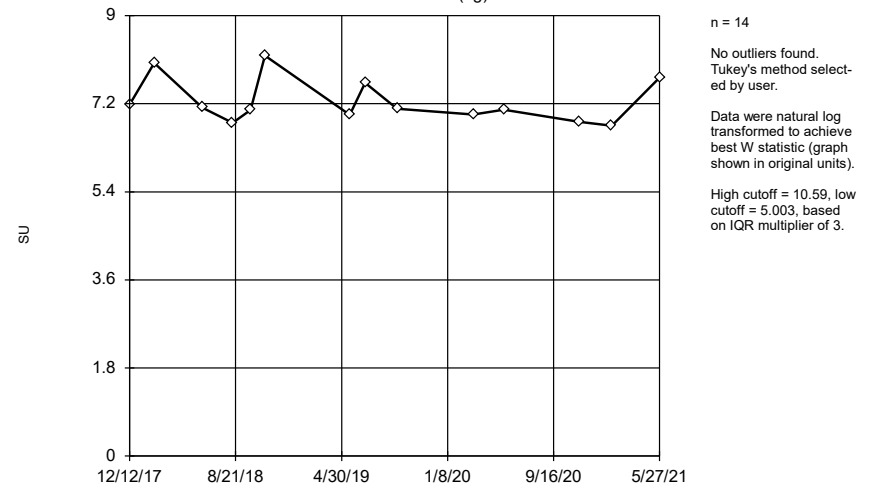
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1701S (bg)



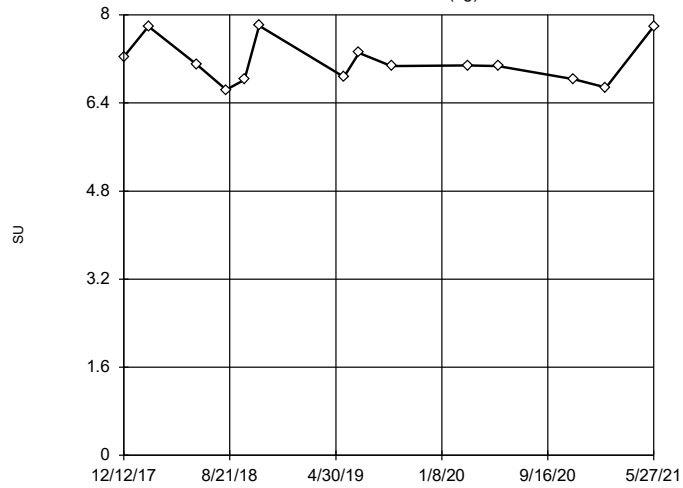
Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening  
MW-1702D (bg)



Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

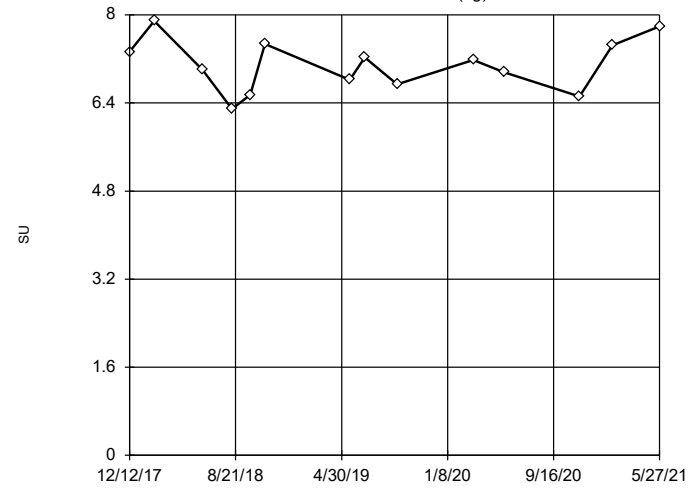
### Tukey's Outlier Screening MW-1702I (bg)



n = 14  
 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 = 10.2, low cutoff = 5.049, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening MW-1702S (bg)



n = 14  
 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 = 10.3, low cutoff = 4.559, based on IQR multiplier of 3.

Constituent: pH, field Analysis Run 1/13/2022 11:50 AM View: Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

# Tukey's Outlier Test - Upgradient Wells - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 11:46 AM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic, total (mg/L)	MW-1600D,MW-1600I...	Yes	0.0253,0.0248,0.0395,0.028,0.0225,0.0225,0.0252,0	NP	NaN	203	0.01293	0.01329	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	203	0.2996	0.324	x^6	ChiSquared
Boron, total (mg/L)	MW-1600D,MW-1600I...	Yes	0.079,0.079,0.085,0.129,0.129,0.076,0.076,0.088,0	NP	NaN	191	0.0446	0.03113	x^6	ChiSquared
Chloride, total (mg/L)	MW-1600D,MW-1600I...	Yes	44.9,43,45.9,46.4,43.5,42.3,42,41.1,41.9,41.7,40.	NP	NaN	191	25.62	8.258	x^5	ChiSquared
Combined Radium 226 + 228 (pCi/L)	MW-1600D,MW-1600I...	Yes	2.148,2.265,2.223,2.86,2.377,2.96,7.25,2.47,2.59,	NP	NaN	203	1.195	0.8299	x^6	ChiSquared
Fluoride, total (mg/L)	MW-1600D,MW-1600I...	Yes	0.56,0.51,0.51,0.49,0.62,0.57,0.55,0.54,0.61,0.7,	NP	NaN	203	0.3097	0.1238	x^6	ChiSquared
Lithium, total (mg/L)	MW-1600D,MW-1600I...	Yes	0.02,0.02,0.02,0.02,0.038,0.019,0.019,0.019,0.019	NP	NaN	203	0.008701	0.005632	x^6	ChiSquared
Sulfate, total (mg/L)	MW-1600D,MW-1600I...	Yes	75.8,76,60.8,60.4,60.6,60.3	NP	NaN	191	38.77	12.37	x^6	ChiSquared
Total Dissolved Solids [TDS] (mg/L)	MW-1600D,MW-1600I...	Yes	491,700,760	NP	NaN	191	387.3	58.22	x^6	ChiSquared

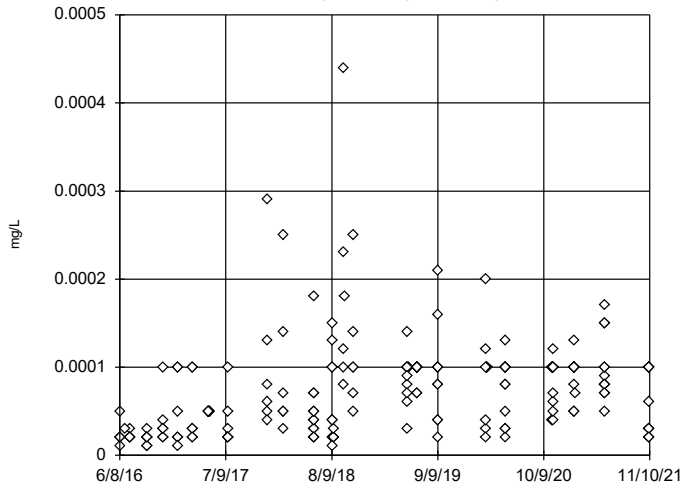
# Tukey's Outlier Test - Upgradient Wells - All Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 11:46 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	203	0.00007586	0.000055	unknown	ChiSquared
<b>Arsenic, total (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>0.0253,0.0248,0.0395,0.028,0.0225,0.0225,0.0252,0</b>	<b>NP</b>	<b>NaN</b>	<b>203</b>	<b>0.01293</b>	<b>0.01329</b>	<b>x^6</b>	<b>ChiSquared</b>
<b>Barium, total (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>0.94,0.946,0.91,0.997,0.877,0.986,0.914,0.817,0.8</b>	<b>NP</b>	<b>NaN</b>	<b>203</b>	<b>0.2996</b>	<b>0.324</b>	<b>x^6</b>	<b>ChiSquared</b>
Beryllium, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.00004306	0.00001619	unknown	ChiSquared
<b>Boron, total (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>0.079,0.079,0.085,0.129,0.129,0.076,0.076,0.088,0</b>	<b>NP</b>	<b>NaN</b>	<b>191</b>	<b>0.0446</b>	<b>0.03113</b>	<b>x^6</b>	<b>ChiSquared</b>
Cadmium, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.00002659	0.00003493	unknown	ChiSquared
<b>Chloride, total (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>44.9,43,45.9,46.4,43.5,42.3,42,41.1,41.9,41.7,40.</b>	<b>NP</b>	<b>NaN</b>	<b>191</b>	<b>25.62</b>	<b>8.258</b>	<b>x^5</b>	<b>ChiSquared</b>
Chromium, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.000304	0.0004113	unknown	ChiSquared
Cobalt, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.0008355	0.0009633	unknown	ChiSquared
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>2.148,2.265,2.223,2.86,2.377,2.96,7.25,2.47,2.59,</b>	<b>NP</b>	<b>NaN</b>	<b>203</b>	<b>1.195</b>	<b>0.8299</b>	<b>x^6</b>	<b>ChiSquared</b>
<b>Fluoride, total (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>0.56,0.51,0.51,0.49,0.62,0.57,0.55,0.54,0.61,0.7,</b>	<b>NP</b>	<b>NaN</b>	<b>203</b>	<b>0.3097</b>	<b>0.1238</b>	<b>x^6</b>	<b>ChiSquared</b>
Lead, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.0002049	0.0003963	unknown	ChiSquared
<b>Lithium, total (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>0.02,0.02,0.02,0.02,0.038,0.019,0.019,0.019,0.019</b>	<b>NP</b>	<b>NaN</b>	<b>203</b>	<b>0.008701</b>	<b>0.005632</b>	<b>x^6</b>	<b>ChiSquared</b>
Mercury, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	179	0.000004866	6.0e-7	unknown	ChiSquared
Molybdenum, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.001776	0.001067	unknown	ChiSquared
Selenium, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.0005351	0.0005162	unknown	ChiSquared
<b>Sulfate, total (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>75.8,76,60.8,60.4,60.6,60.3</b>	<b>NP</b>	<b>NaN</b>	<b>191</b>	<b>38.77</b>	<b>12.37</b>	<b>x^6</b>	<b>ChiSquared</b>
Thallium, total (mg/L)	MW-1600D,MW-1600I...	n/a	n/a	NP	NaN	203	0.001078	0.005874	unknown	ChiSquared
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MW-1600D,MW-1600I...</b>	<b>Yes</b>	<b>491,700,760</b>	<b>NP</b>	<b>NaN</b>	<b>191</b>	<b>387.3</b>	<b>58.22</b>	<b>x^6</b>	<b>ChiSquared</b>

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

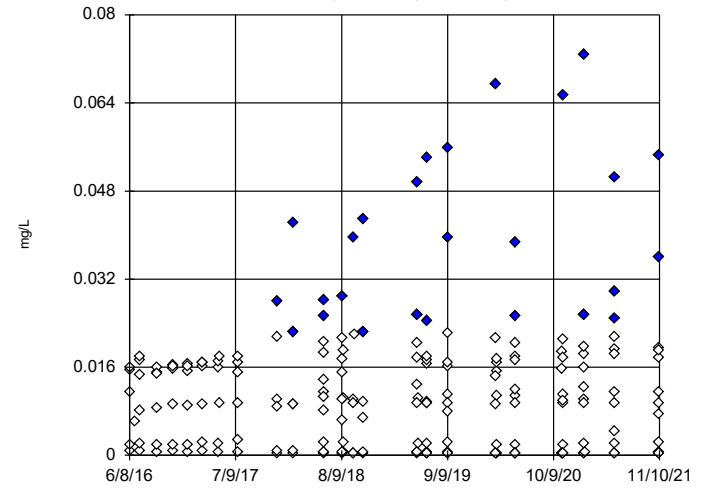


n = 203  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x\*6 transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Antimony, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

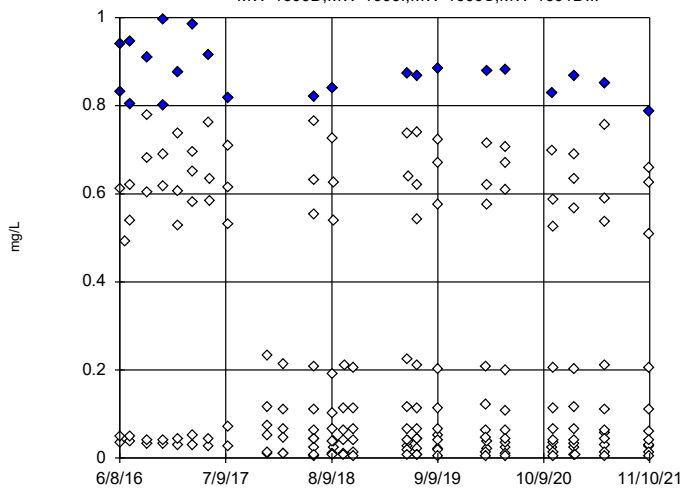


n = 203  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were x\*6 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.02243, low cutoff = -0.02138, based on IQR multiplier of 3.

Constituent: Arsenic, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

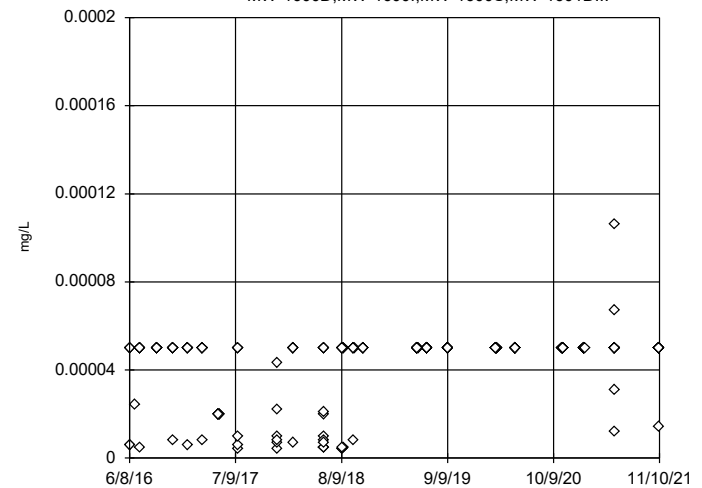


n = 203  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were x\*6 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.7812, low cutoff = -0.7446, based on IQR multiplier of 3.

Constituent: Barium, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



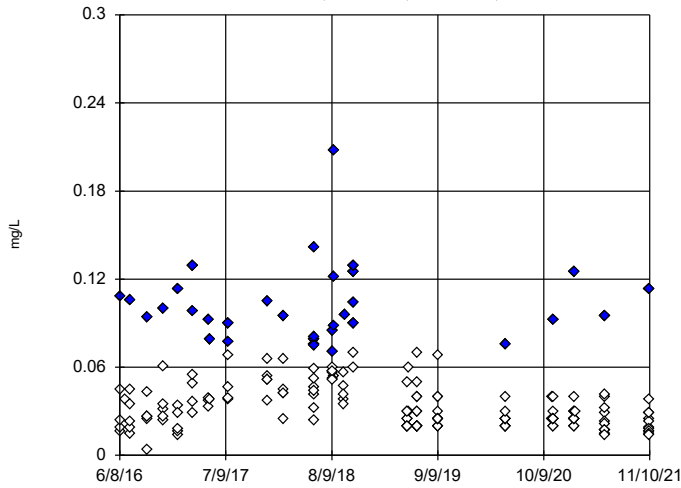
n = 203  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x\*6 transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP



### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

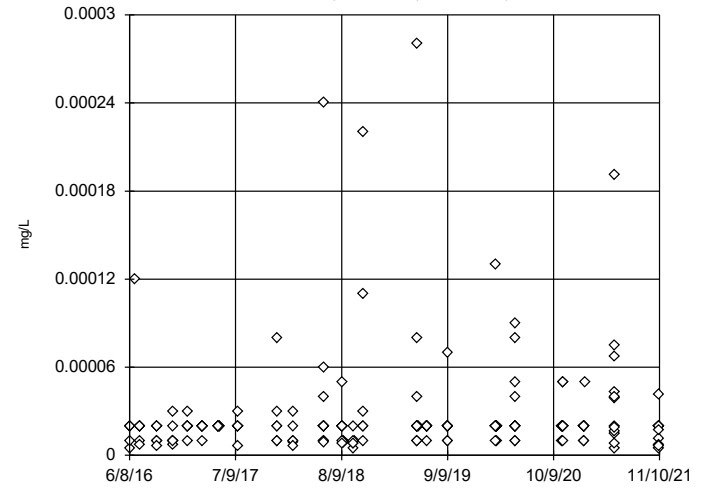


n = 191  
 Outliers are drawn as solid. Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.07049, low cutoff = -0.06713, based on IQR multiplier of 3.

Constituent: Boron, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

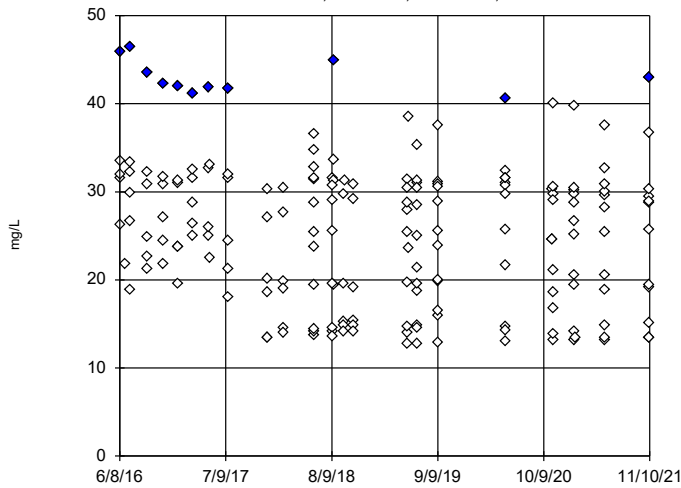


n = 203  
 No outliers found. Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cadmium, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

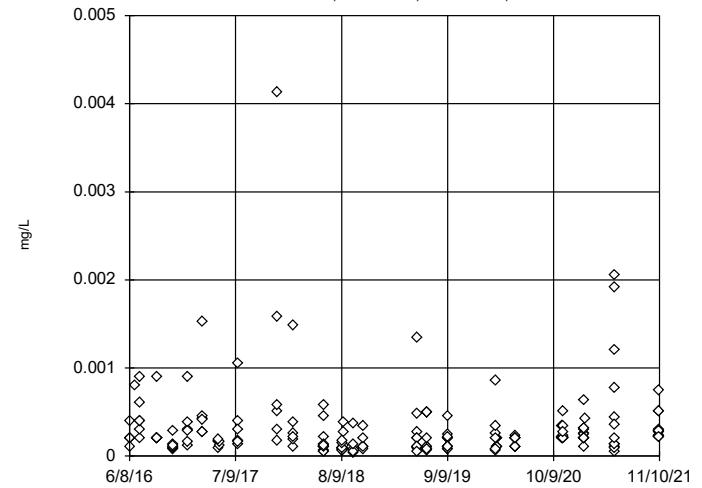


n = 191  
 Outliers are drawn as solid. Tukey's method selected by user.  
 Data were x<sup>5</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 40.48, low cutoff = -37.79, based on IQR multiplier of 3.

Constituent: Chloride, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

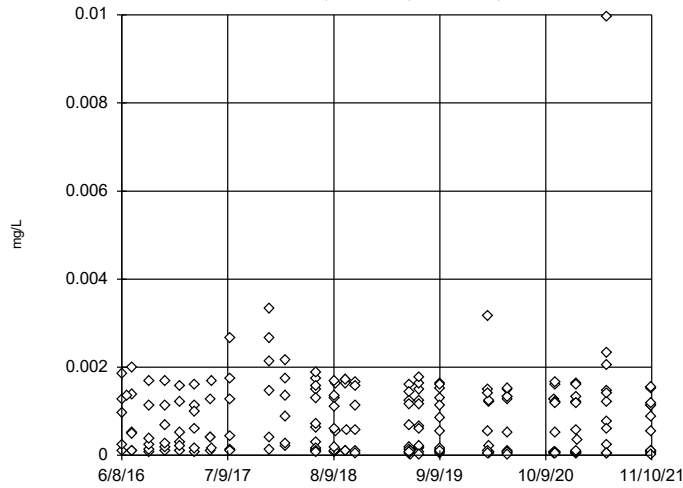


n = 203  
 No outliers found. Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Chromium, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

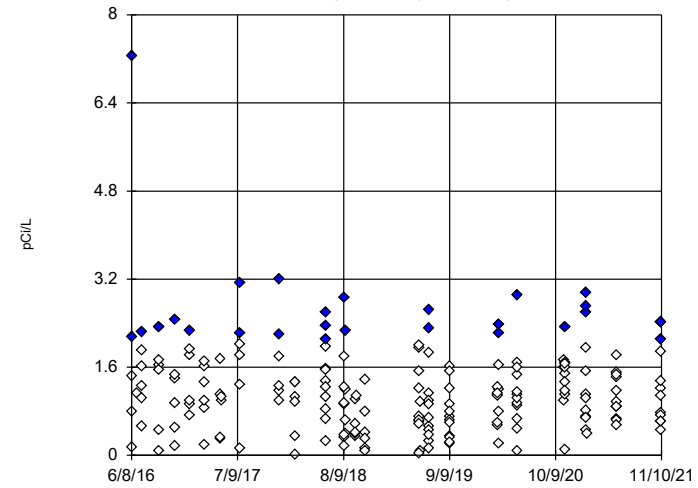


n = 203  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>5</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cobalt, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

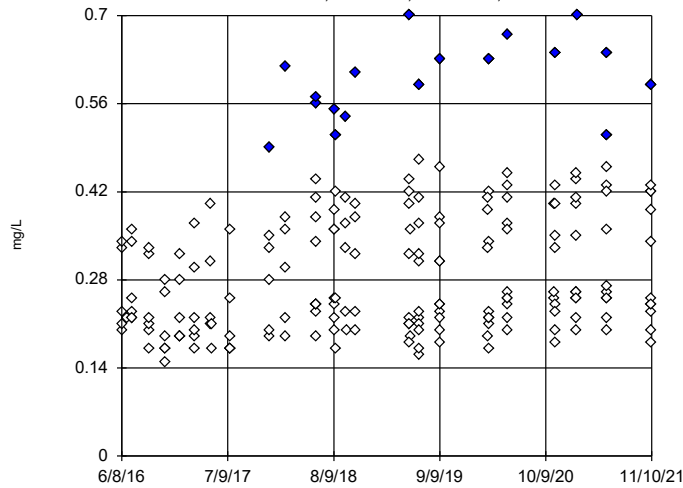


n = 203  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 2.045, low cutoff = -1.949, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

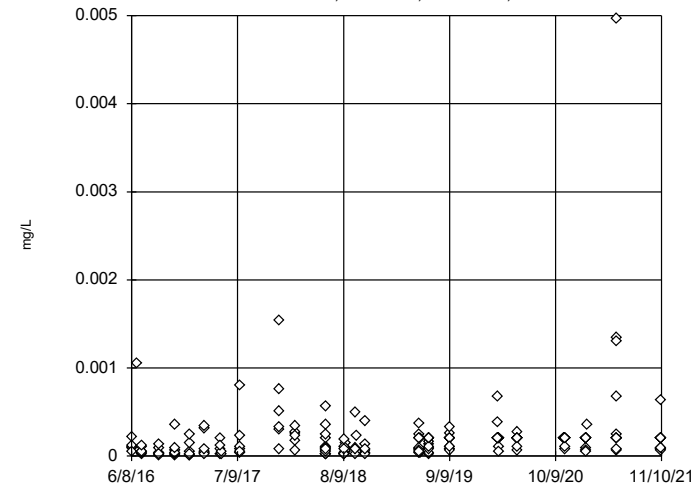


n = 203  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.4894, low cutoff = -0.485, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...

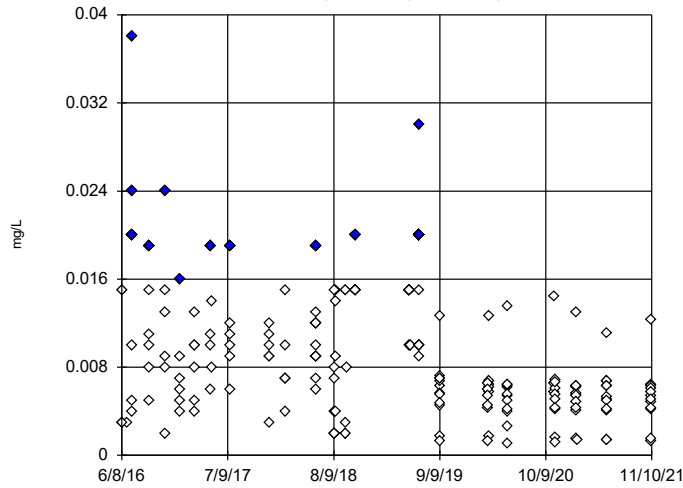


n = 203  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>5</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Lead, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 203

Outliers are drawn as solid. Tukey's method selected by user.

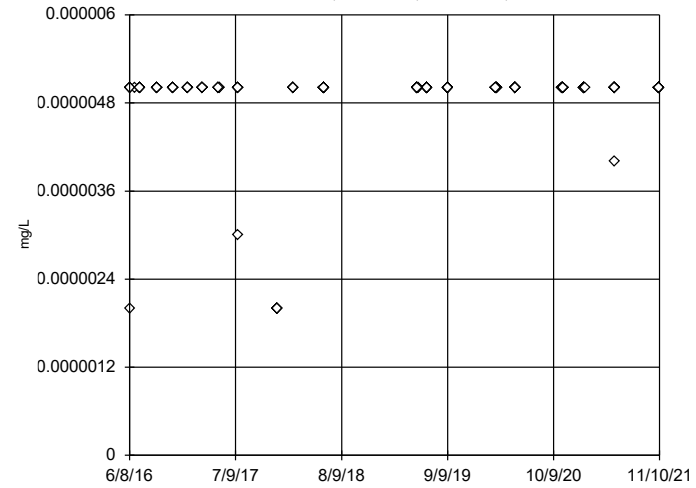
Data were x\*6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.01511, low cutoff = -0.01439, based on IQR multiplier of 3.

Constituent: Lithium, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 179

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

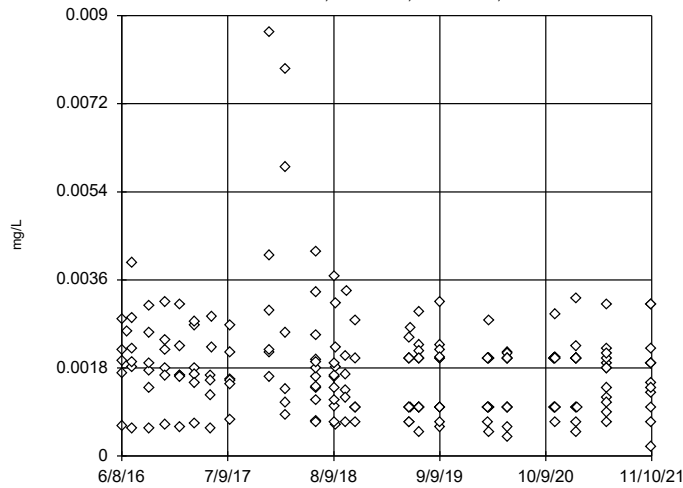
Ladder of Powers transformations did not improve normality; analysis run on raw data.

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

Constituent: Mercury, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 203

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

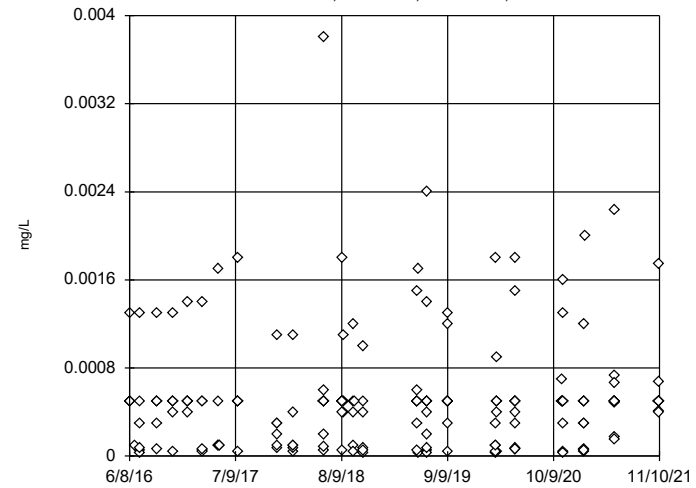
Data were x\*6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Molybdenum, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 203

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

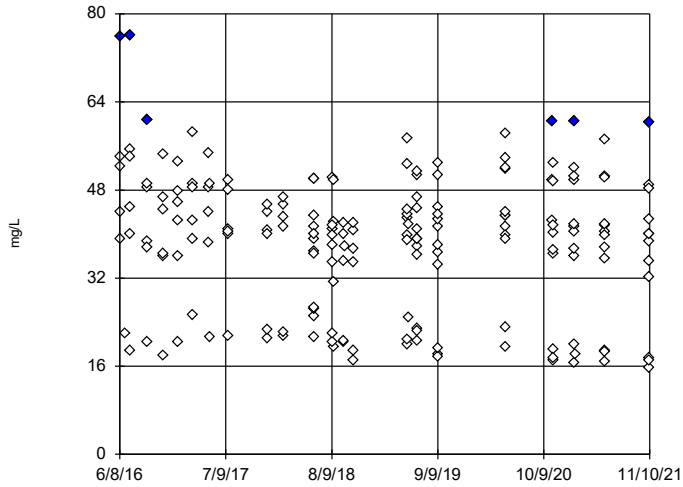
Data were x\*6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Selenium, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 191

Outliers are drawn as solid. Tukey's method selected by user.

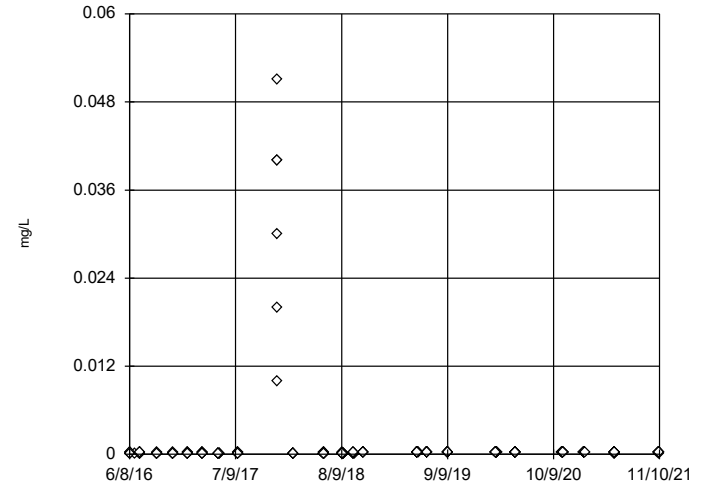
Data were x\*6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 59.38, low cutoff = -56.04, based on IQR multiplier of 3.

Constituent: Sulfate, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 203

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

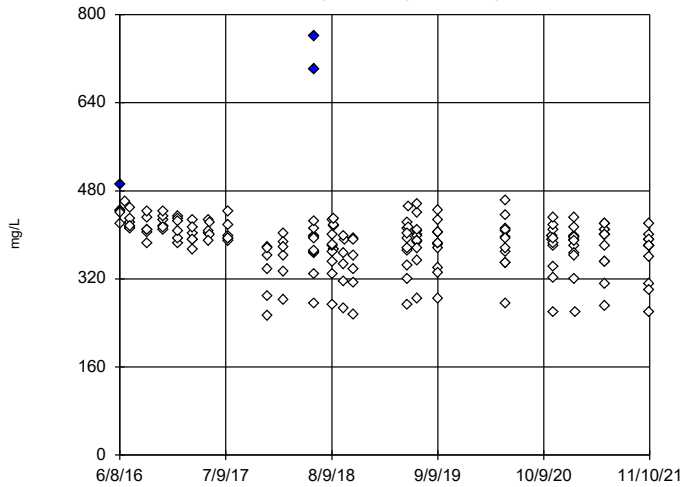
Data were x\*6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Thallium, total Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tukey's Outlier Screening, Pooled Background

MW-1600D,MW-1600I,MW-1600S,MW-1601D...



n = 191

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 = 481.1, low cutoff = -412.9, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/13/2022 11:45 AM View: Upgradient Outlier Test  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

# Welch's t-test/Mann-Whitney - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 12:16 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Method</u>
Calcium, total (mg/L)	MW-1603S	-2.774	Yes	Mann-W
Calcium, total (mg/L)	MW-1604I	-2.774	Yes	Mann-W
Calcium, total (mg/L)	MW-1604S	-2.774	Yes	Mann-W
Calcium, total (mg/L)	MW-1606D	2.889	Yes	Mann-W
pH, field (SU)	MW-1605S	-3.012	Yes	Mann-W

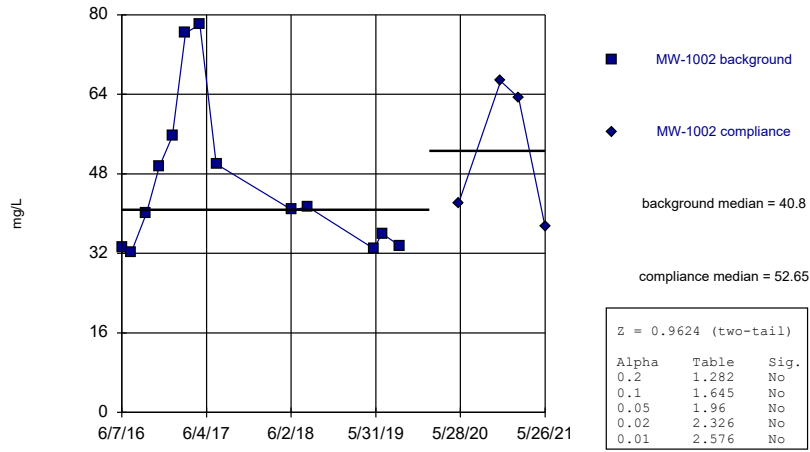
# Welch's t-test/Mann-Whitney - All Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 12:16 PM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Method</u>
Calcium, total (mg/L)	MW-1002	0.9624	No	Mann-W
Calcium, total (mg/L)	MW-1600D (bg)	0.6231	No	Mann-W
Calcium, total (mg/L)	MW-1600I (bg)	-0.6243	No	Mann-W
Calcium, total (mg/L)	MW-1600S (bg)	-0.05665	No	Mann-W
Calcium, total (mg/L)	MW-1601D (bg)	0.5665	No	Mann-W
Calcium, total (mg/L)	MW-1601I (bg)	0.2427	No	Mann-W
Calcium, total (mg/L)	MW-1601S (bg)	-0.05665	No	Mann-W
Calcium, total (mg/L)	MW-1602D	-1.303	No	Mann-W
Calcium, total (mg/L)	MW-1602I	0	No	Mann-W
Calcium, total (mg/L)	MW-1603D	-0.9069	No	Mann-W
Calcium, total (mg/L)	MW-1603I	-1.529	No	Mann-W
<b>Calcium, total (mg/L)</b>	<b>MW-1603S</b>	<b>-2.774</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium, total (mg/L)	MW-1604D	0.5095	No	Mann-W
<b>Calcium, total (mg/L)</b>	<b>MW-1604I</b>	<b>-2.774</b>	<b>Yes</b>	<b>Mann-W</b>
<b>Calcium, total (mg/L)</b>	<b>MW-1604S</b>	<b>-2.774</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium, total (mg/L)	MW-1605D	-1.868	No	Mann-W
Calcium, total (mg/L)	MW-1605I	-1.643	No	Mann-W
Calcium, total (mg/L)	MW-1605S	0.2831	No	Mann-W
<b>Calcium, total (mg/L)</b>	<b>MW-1606D</b>	<b>2.889</b>	<b>Yes</b>	<b>Mann-W</b>
Calcium, total (mg/L)	MW-1606I	-1.076	No	Mann-W
Calcium, total (mg/L)	MW-1606S	-2.096	No	Mann-W
Calcium, total (mg/L)	MW-1701D (bg)	-0.3863	No	Mann-W
Calcium, total (mg/L)	MW-1701I (bg)	1.929	No	Mann-W
Calcium, total (mg/L)	MW-1701S (bg)	1.312	No	Mann-W
Calcium, total (mg/L)	MW-1702D (bg)	1.313	No	Mann-W
Calcium, total (mg/L)	MW-1702I (bg)	0.3863	No	Mann-W
Calcium, total (mg/L)	MW-1702S (bg)	-0.309	No	Mann-W
pH, field (SU)	MW-1002	-1.381	No	Mann-W
pH, field (SU)	MW-1600D (bg)	-0.09862	No	Mann-W
pH, field (SU)	MW-1600I (bg)	-1.531	No	Mann-W
pH, field (SU)	MW-1600S (bg)	-0.4743	No	Mann-W
pH, field (SU)	MW-1601D (bg)	-1.473	No	Mann-W
pH, field (SU)	MW-1601I (bg)	-2.285	No	Mann-W
pH, field (SU)	MW-1601S (bg)	-1.984	No	Mann-W
pH, field (SU)	MW-1602D	-2.058	No	Mann-W
pH, field (SU)	MW-1602I	-0.4934	No	Mann-W
pH, field (SU)	MW-1603D	-0.6907	No	Mann-W
pH, field (SU)	MW-1603I	-0.5808	No	Mann-W
pH, field (SU)	MW-1603S	-0.4746	No	Mann-W
pH, field (SU)	MW-1604D	-1.874	No	Mann-W
pH, field (SU)	MW-1604I	-1.481	No	Mann-W
pH, field (SU)	MW-1604S	-1.078	No	Mann-W
pH, field (SU)	MW-1605D	-2.366	No	Mann-W
pH, field (SU)	MW-1605I	-2.324	No	Mann-W
<b>pH, field (SU)</b>	<b>MW-1605S</b>	<b>-3.012</b>	<b>Yes</b>	<b>Mann-W</b>
pH, field (SU)	MW-1606D	-0.6068	No	Mann-W
pH, field (SU)	MW-1606I	-0.6072	No	Mann-W
pH, field (SU)	MW-1606S	-1.36	No	Mann-W
pH, field (SU)	MW-1701D (bg)	-1.931	No	Mann-W
pH, field (SU)	MW-1701I (bg)	-2.002	No	Mann-W
pH, field (SU)	MW-1701S (bg)	-1.006	No	Mann-W
pH, field (SU)	MW-1702D (bg)	-1.333	No	Mann-W
pH, field (SU)	MW-1702I (bg)	-0.6681	No	Mann-W
pH, field (SU)	MW-1702S (bg)	0.2667	No	Mann-W

Mann-Whitney (Wilcoxon Rank Sum)

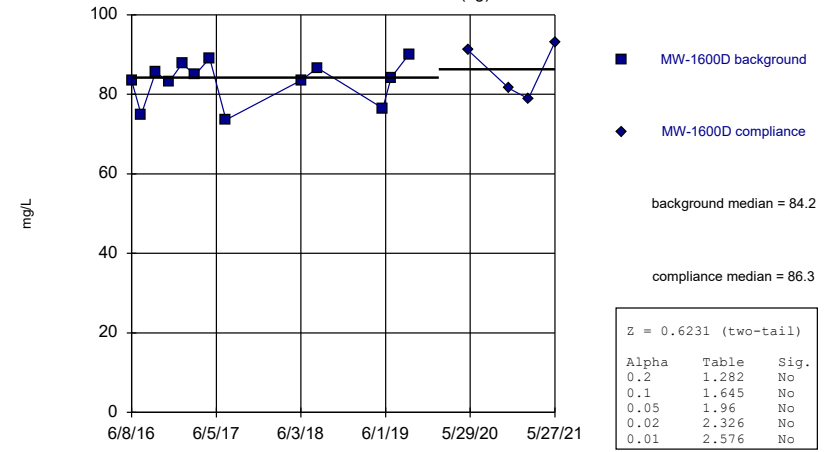
MW-1002



Constituent: Calcium, total Analysis Run 1/13/2022 12:14 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

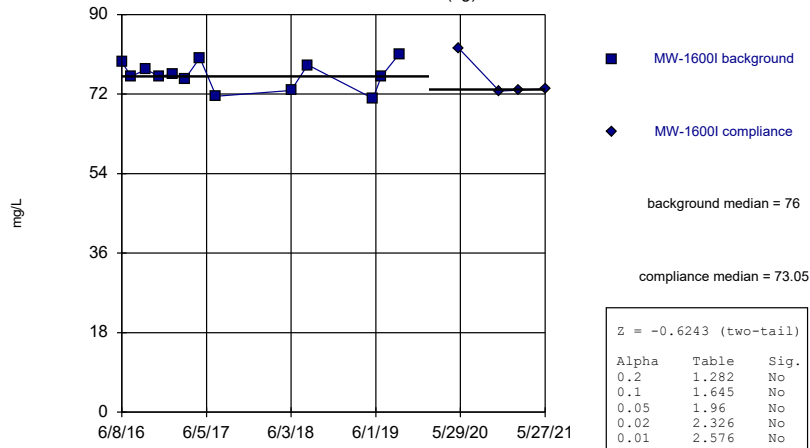
MW-1600D (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:14 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

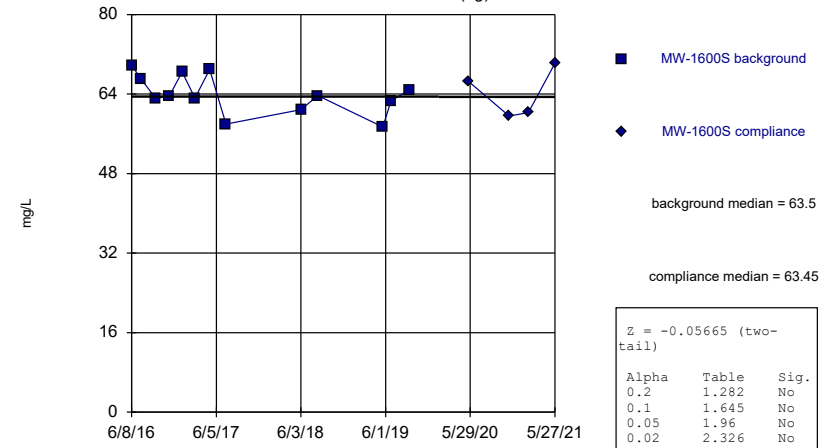
MW-1600I (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:14 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

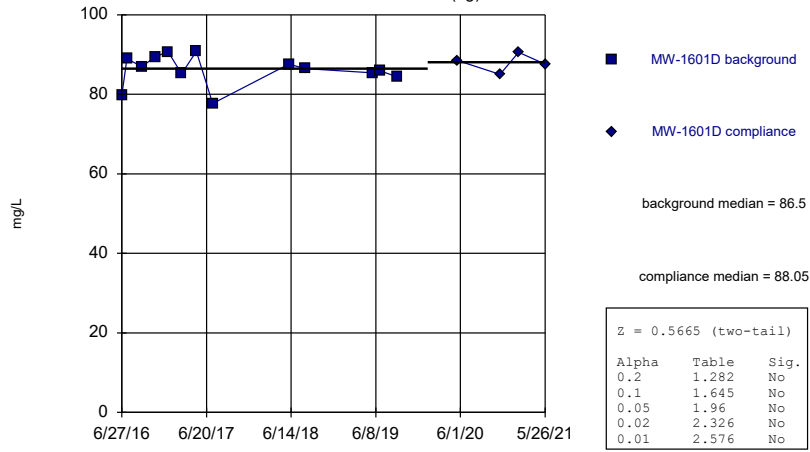
Mann-Whitney (Wilcoxon Rank Sum)

MW-1600S (bg)



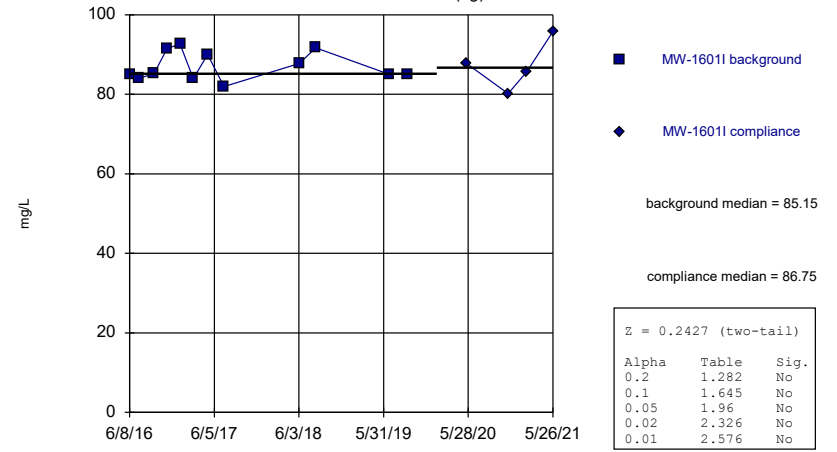
Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1601D (bg)



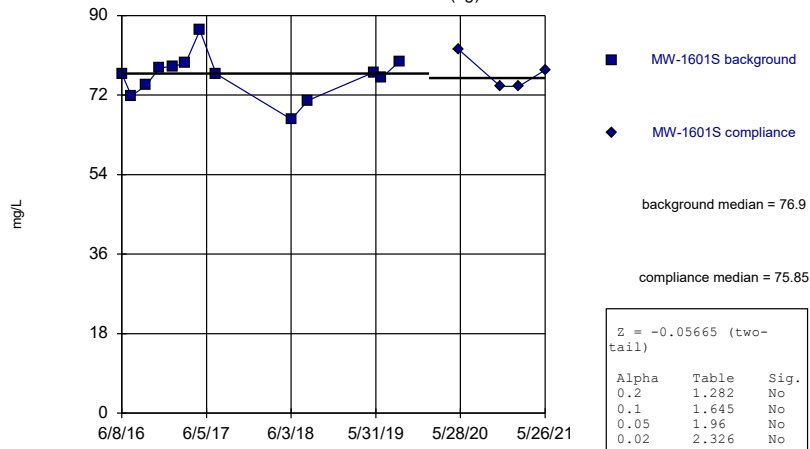
Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-16011 (bg)



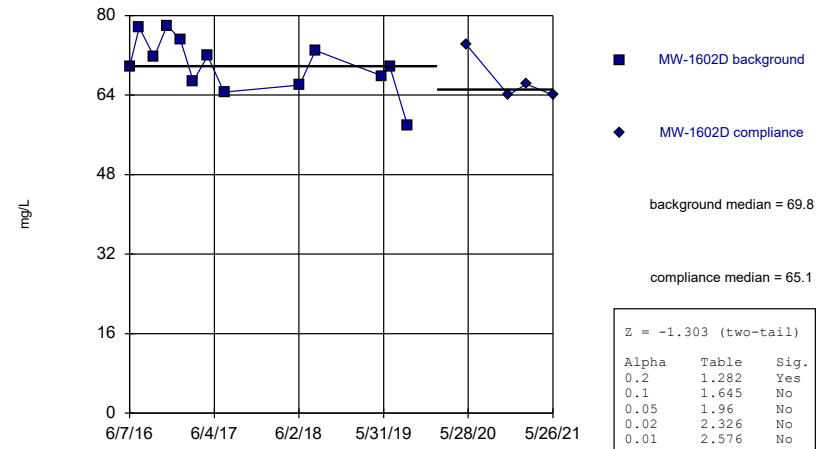
Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1601S (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1602D

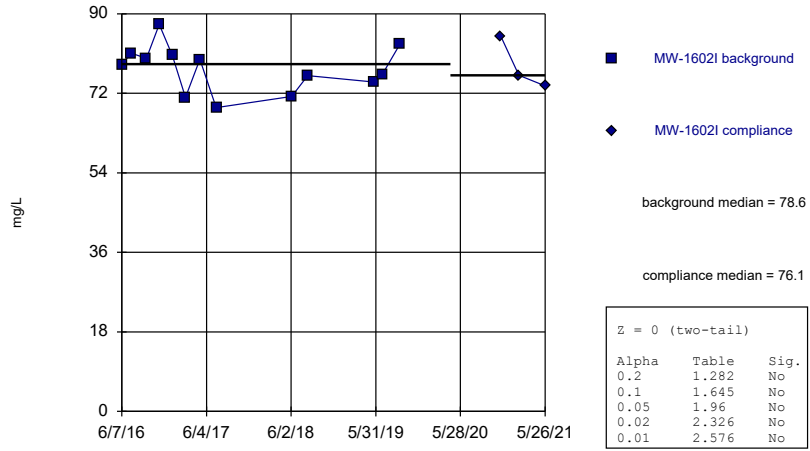


Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



Mann-Whitney (Wilcoxon Rank Sum)

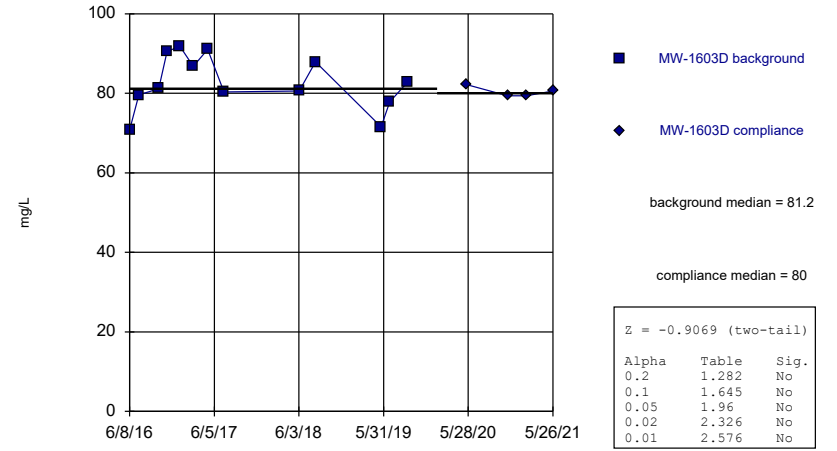
MW-1602I



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

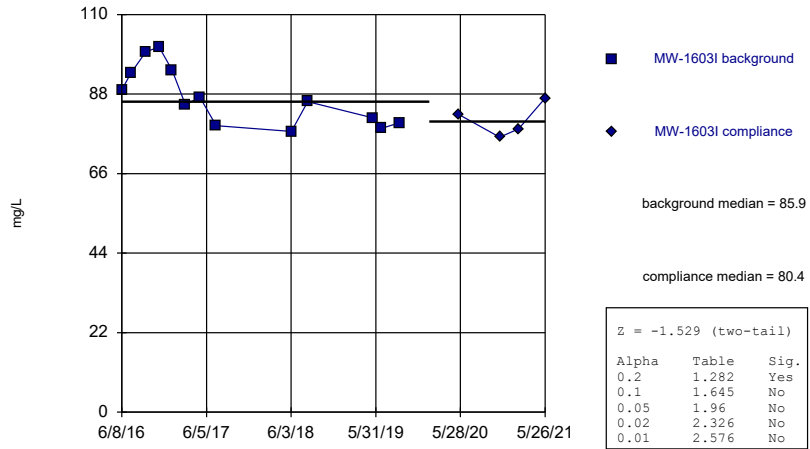
MW-1603D



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

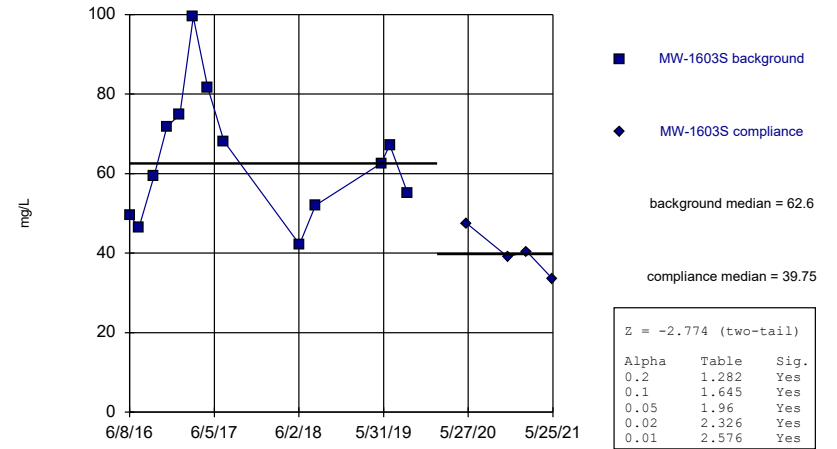
MW-1603I



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

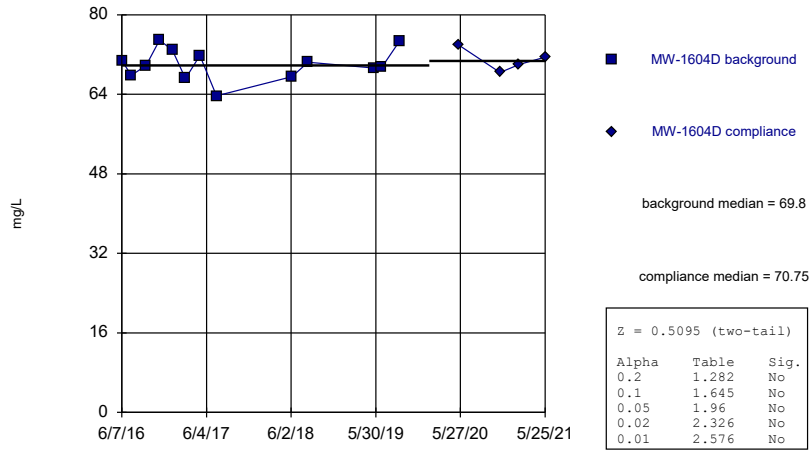
MW-1603S



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

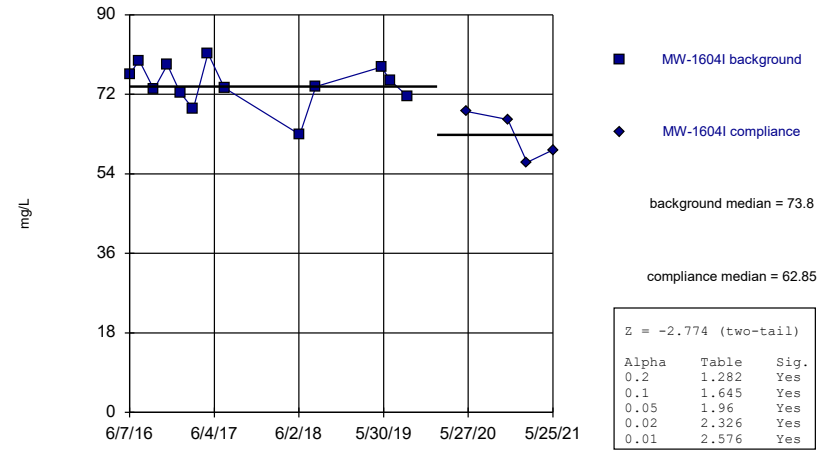
MW-1604D



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

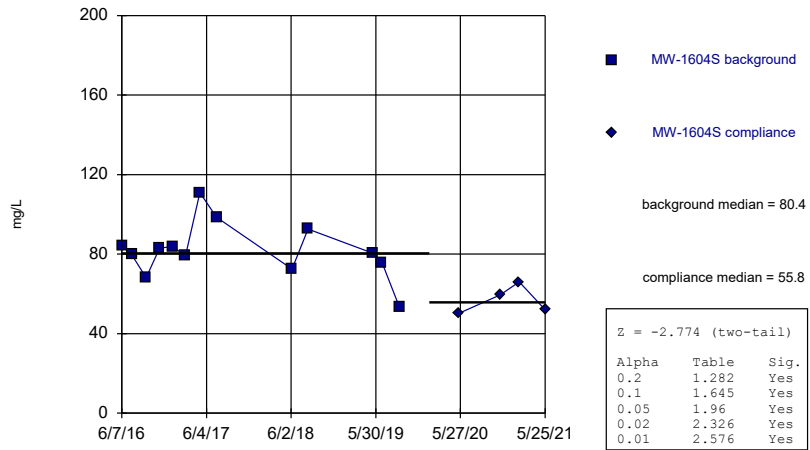
MW-1604I



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

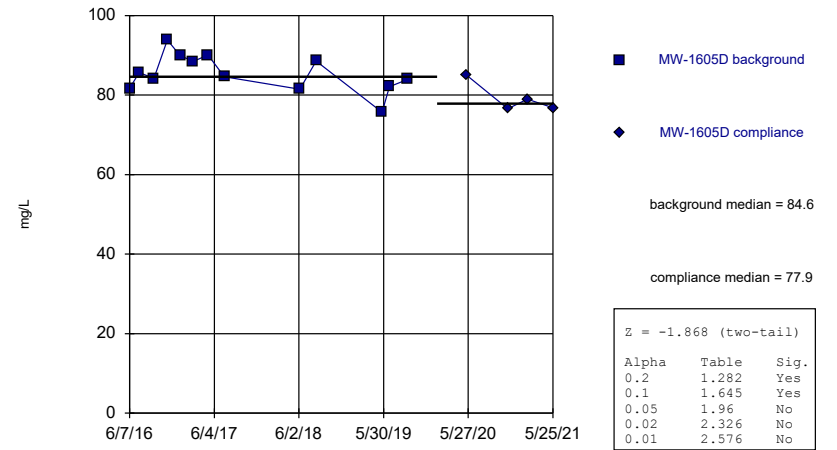
MW-1604S



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

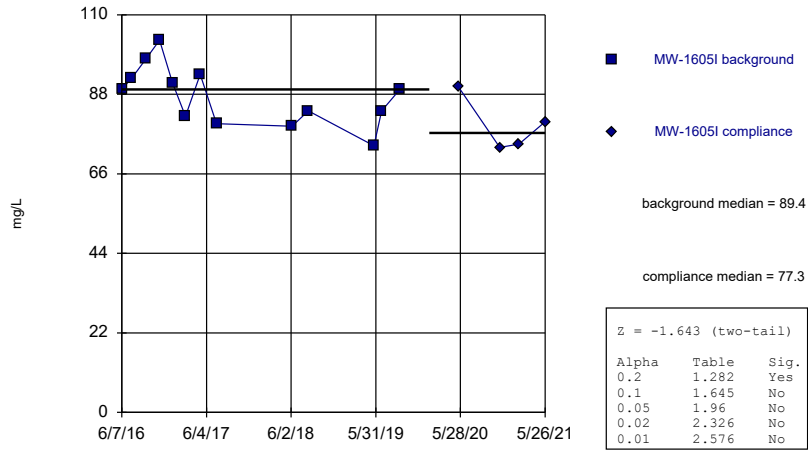
MW-1605D



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

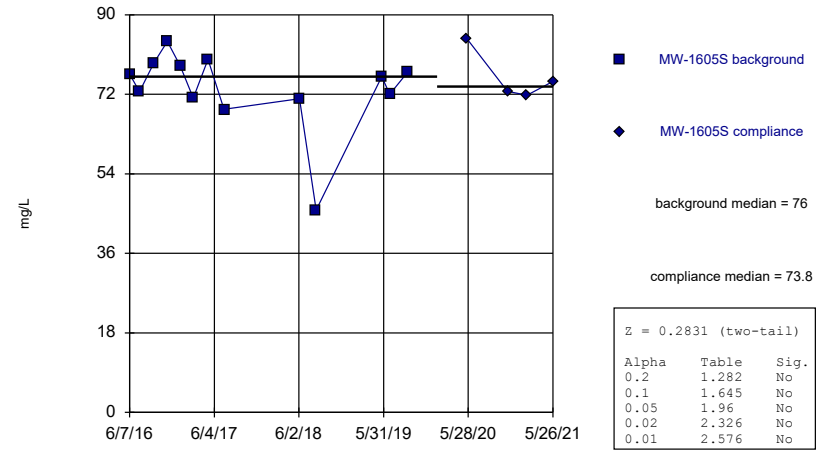
MW-1605I



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

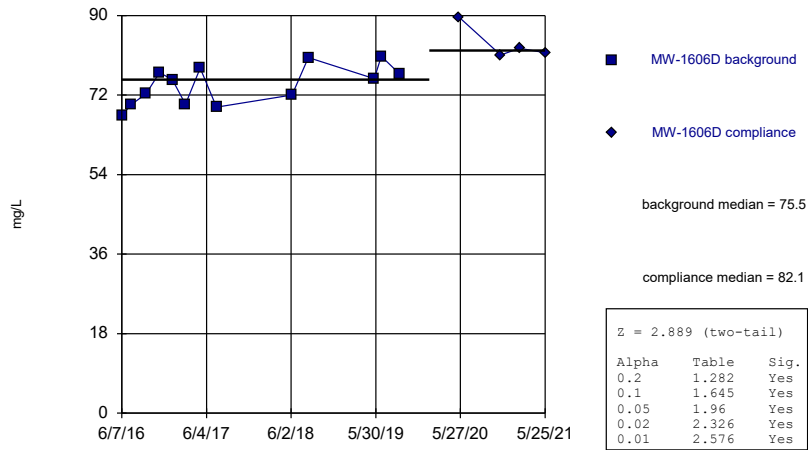
MW-1605S



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

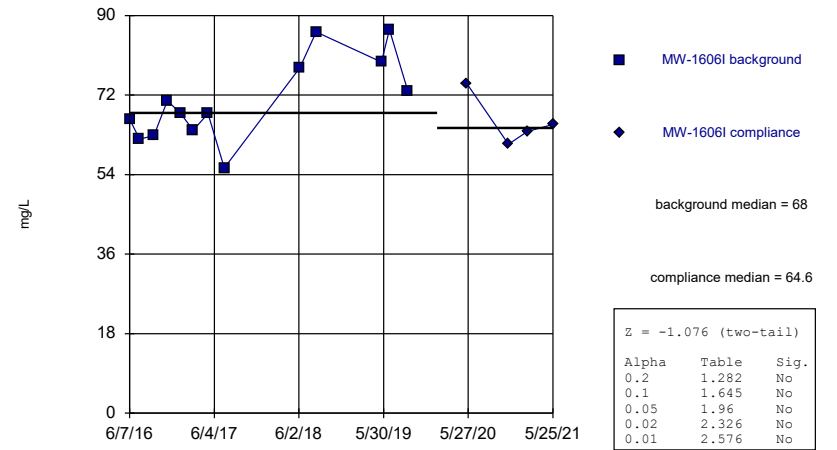
MW-1606D



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

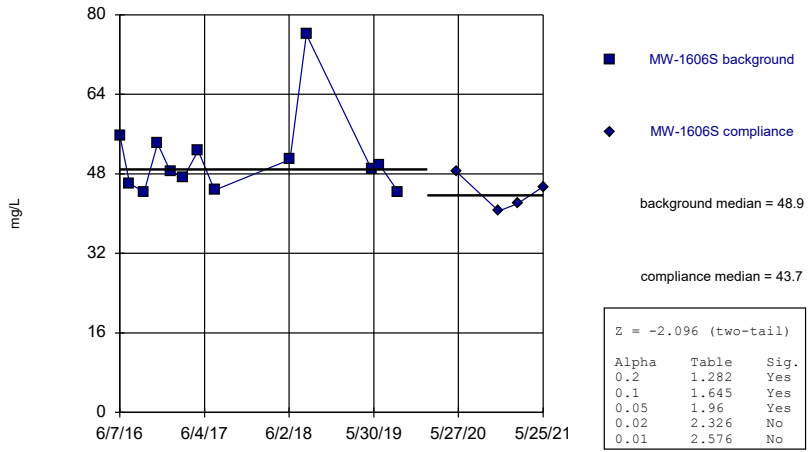
Mann-Whitney (Wilcoxon Rank Sum)

MW-1606I



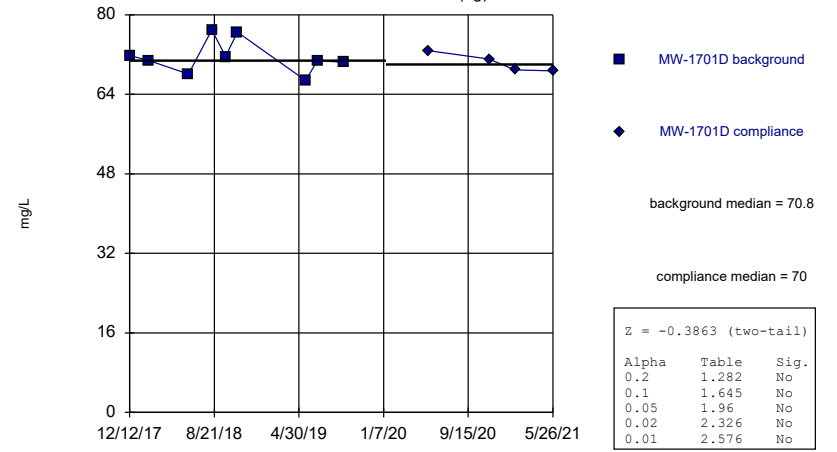
Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1606S



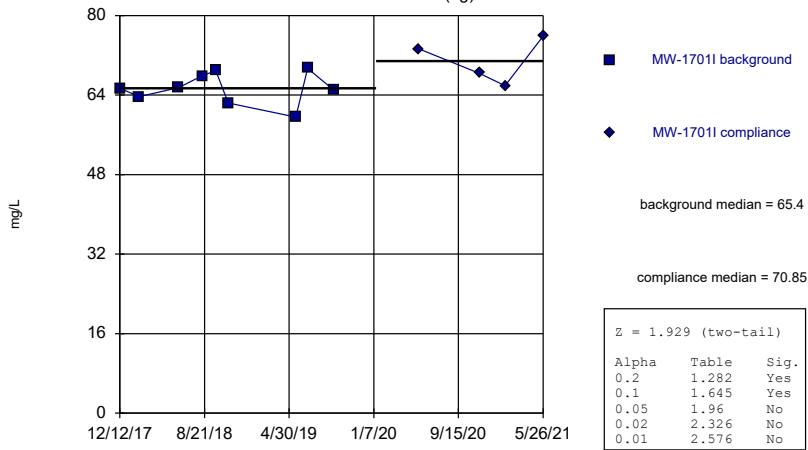
Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1701D (bg)



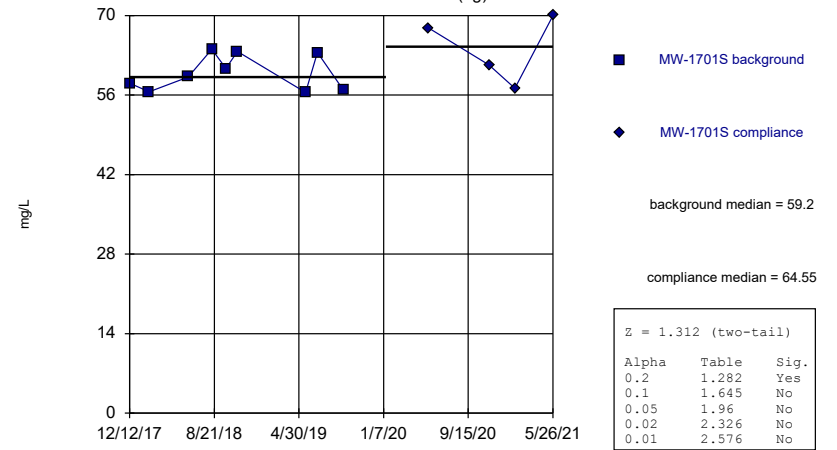
Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1701I (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

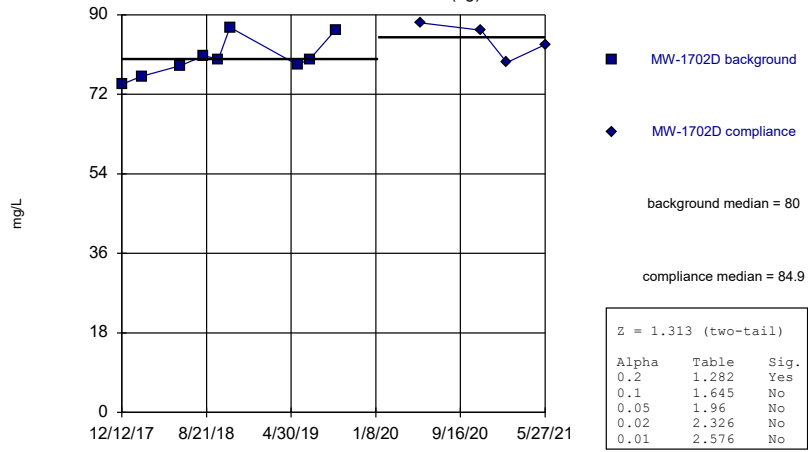
Mann-Whitney (Wilcoxon Rank Sum)  
MW-1701S (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

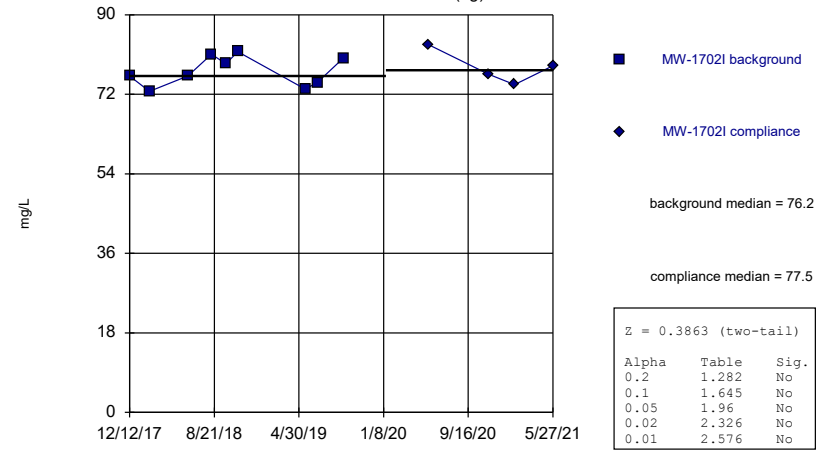
MW-1702D (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

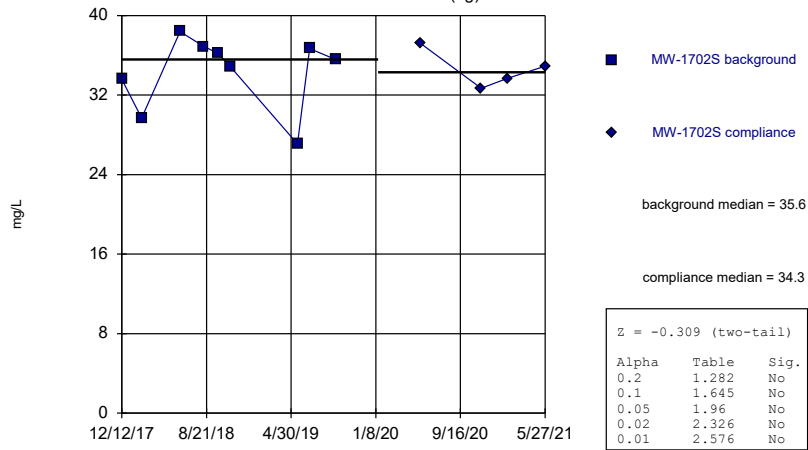
MW-1702I (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

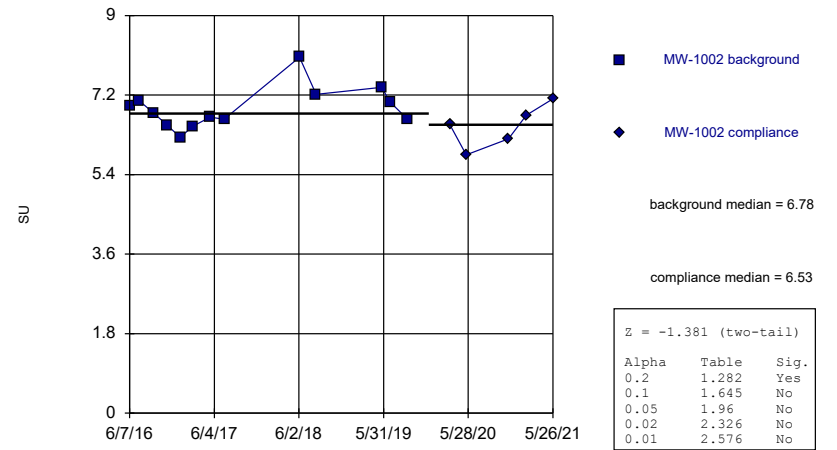
MW-1702S (bg)



Constituent: Calcium, total Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

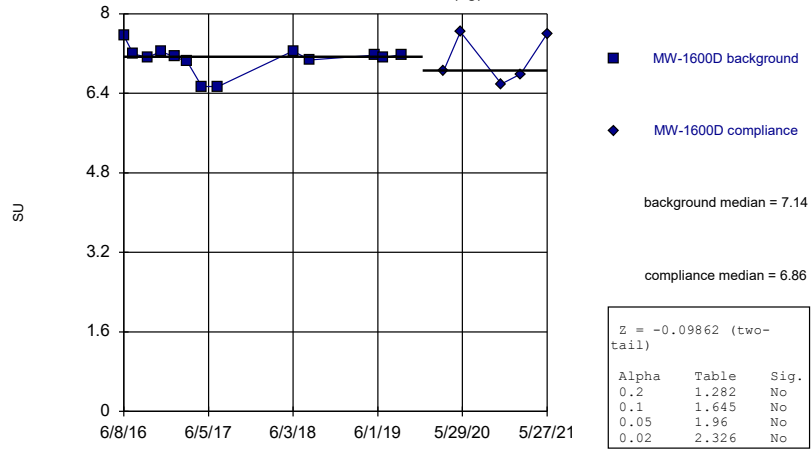
Mann-Whitney (Wilcoxon Rank Sum)

MW-1002



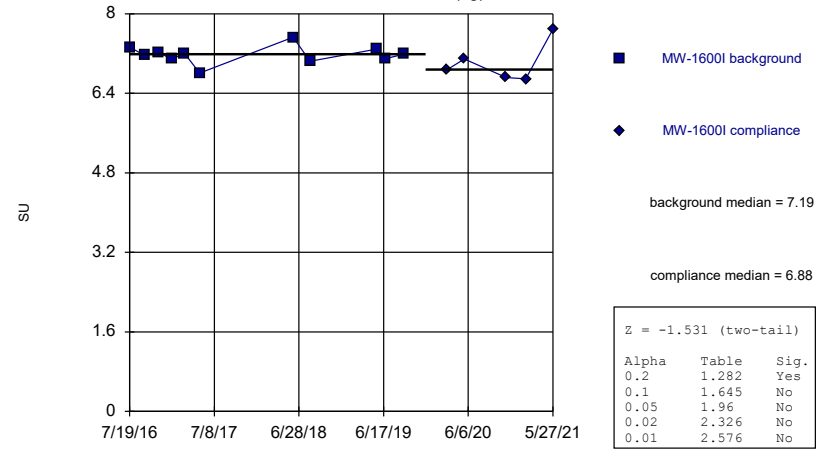
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1600D (bg)



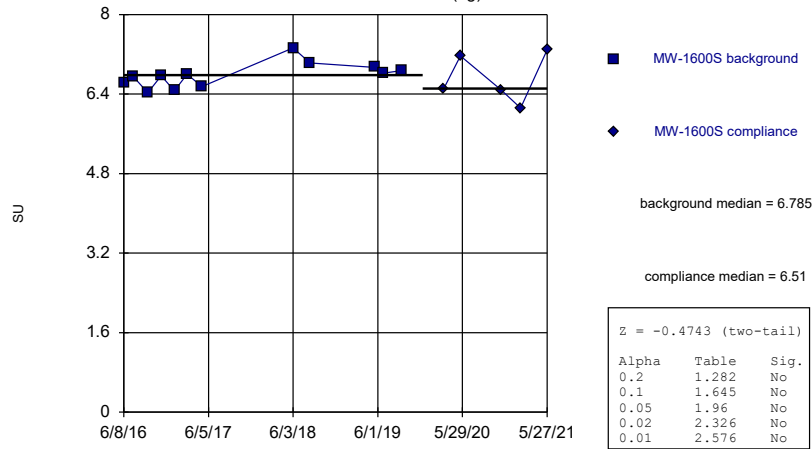
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1600I (bg)



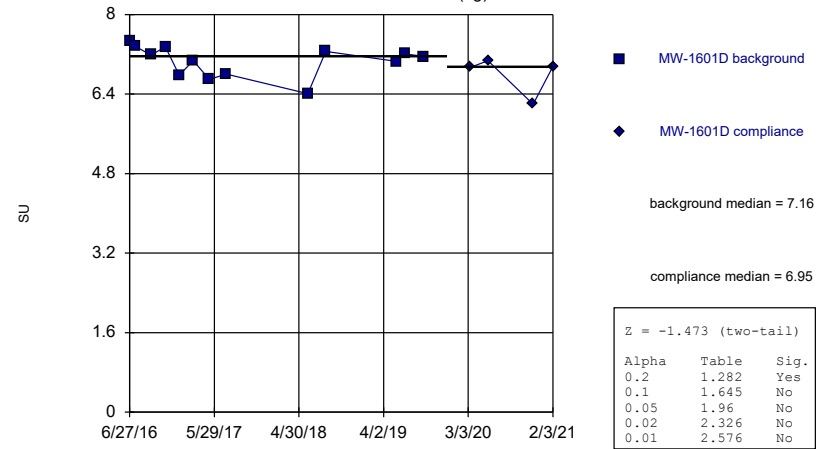
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1600S (bg)



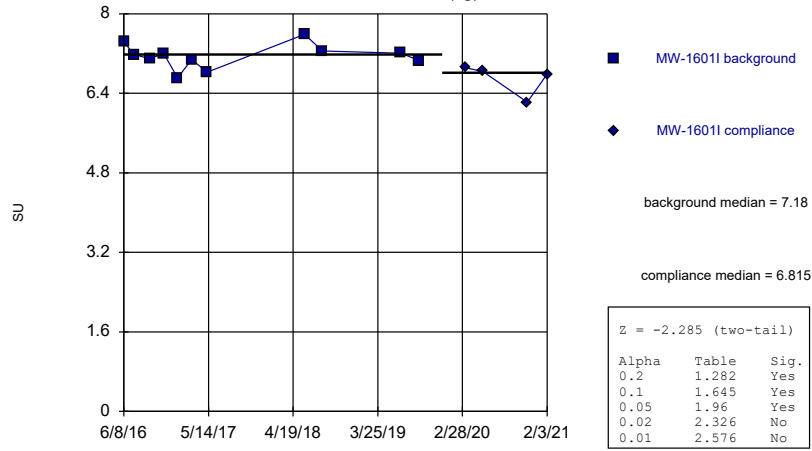
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1601D (bg)



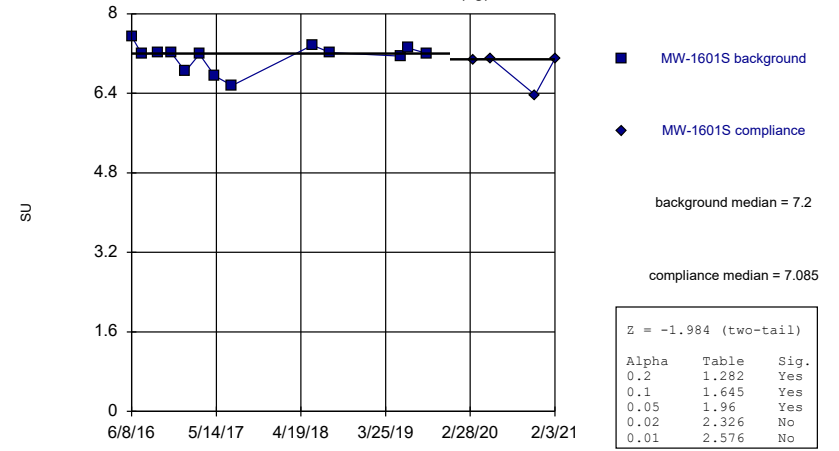
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1601I (bg)



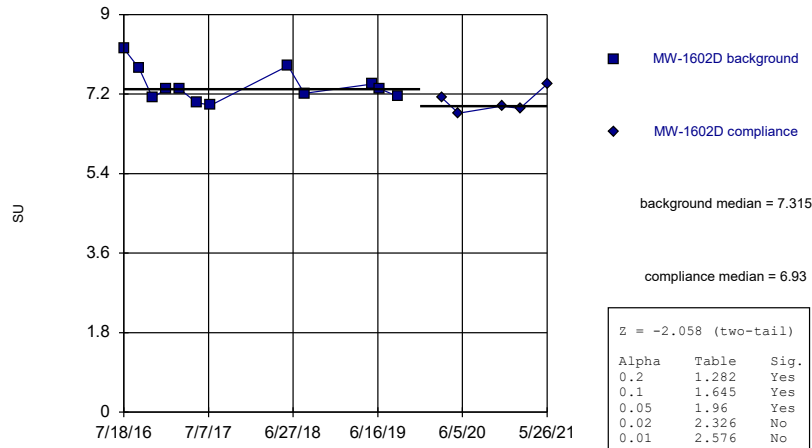
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1601S (bg)



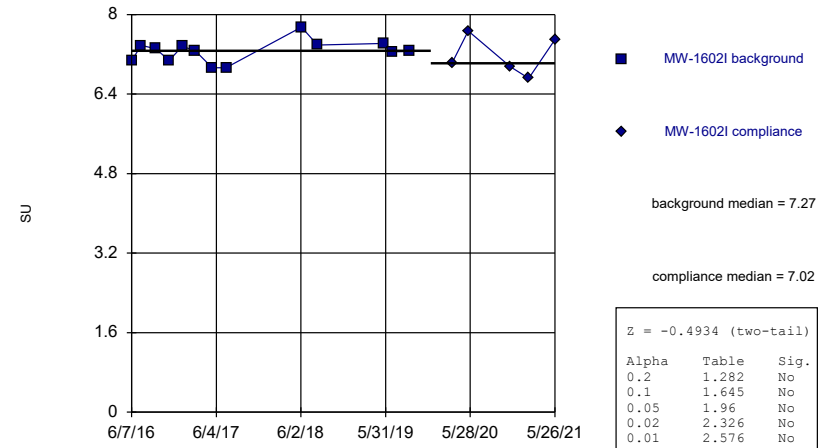
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1602D



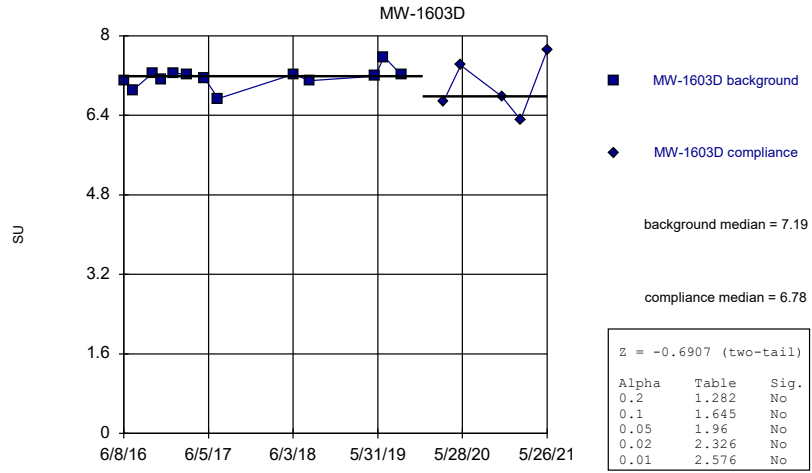
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1602I



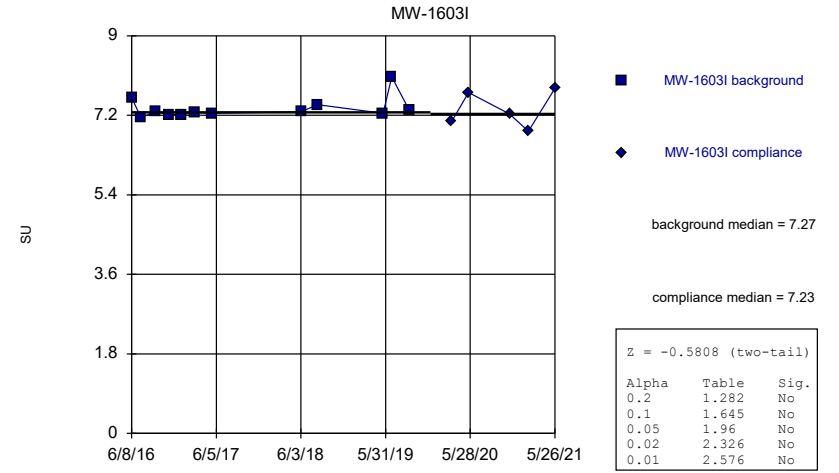
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)



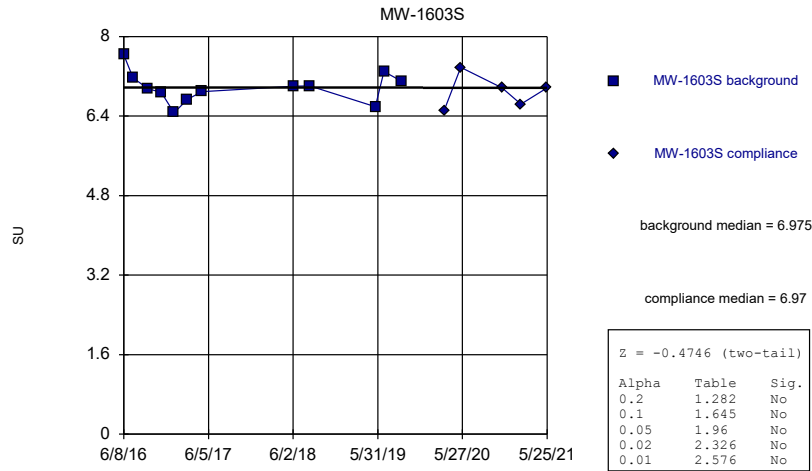
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)



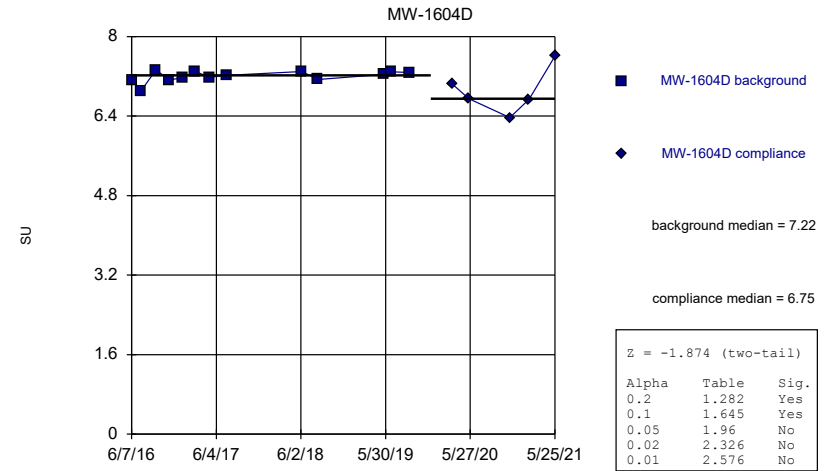
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

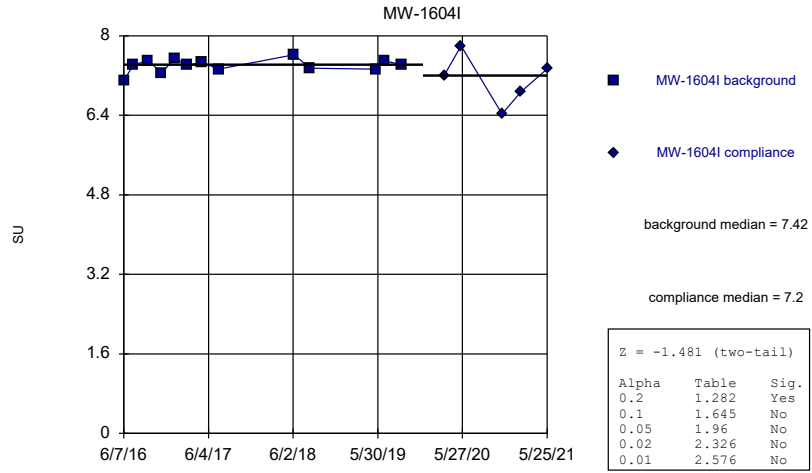
Mann-Whitney (Wilcoxon Rank Sum)



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
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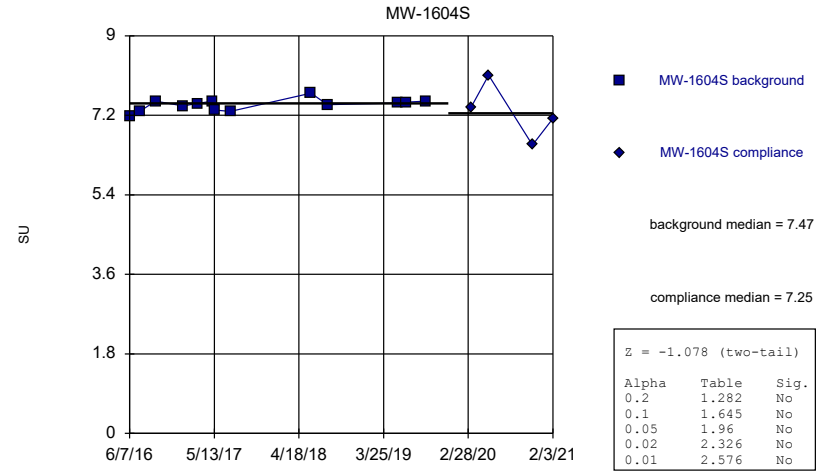


Mann-Whitney (Wilcoxon Rank Sum)



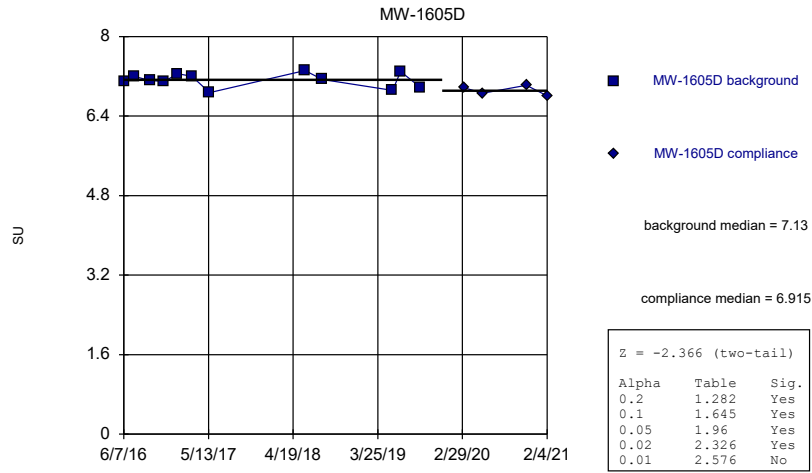
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)



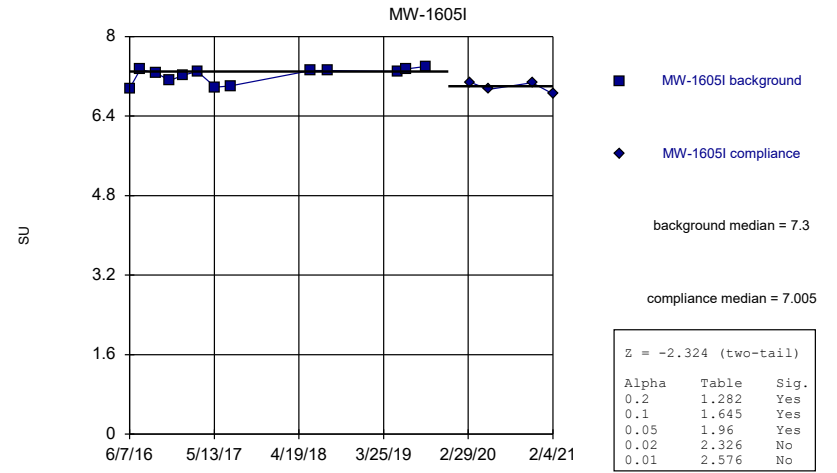
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

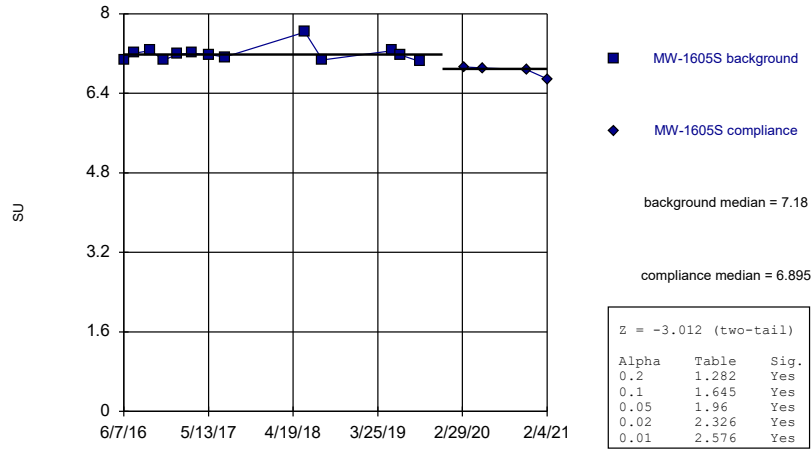
Mann-Whitney (Wilcoxon Rank Sum)



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

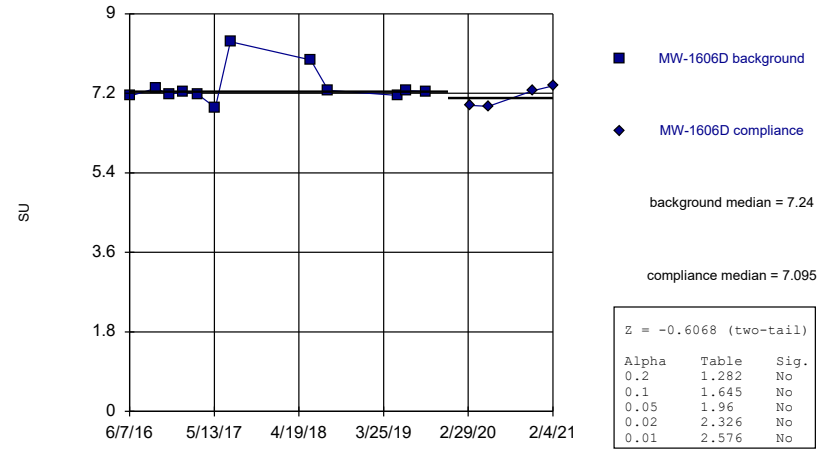
MW-1605S



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

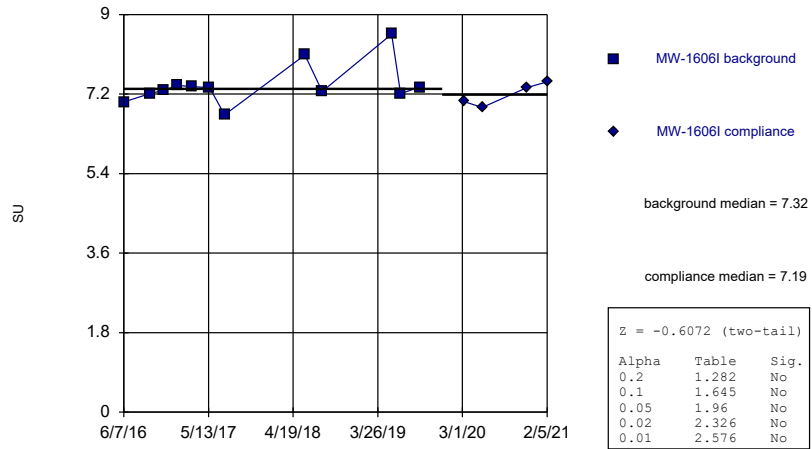
MW-1606D



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)

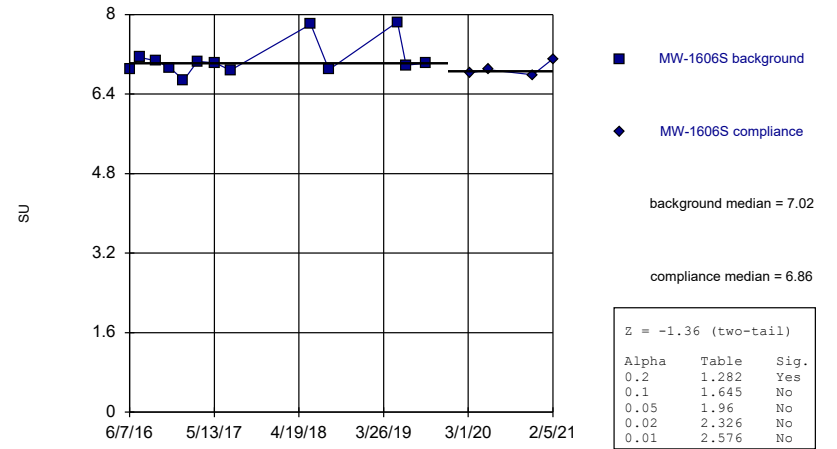
MW-1606I



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

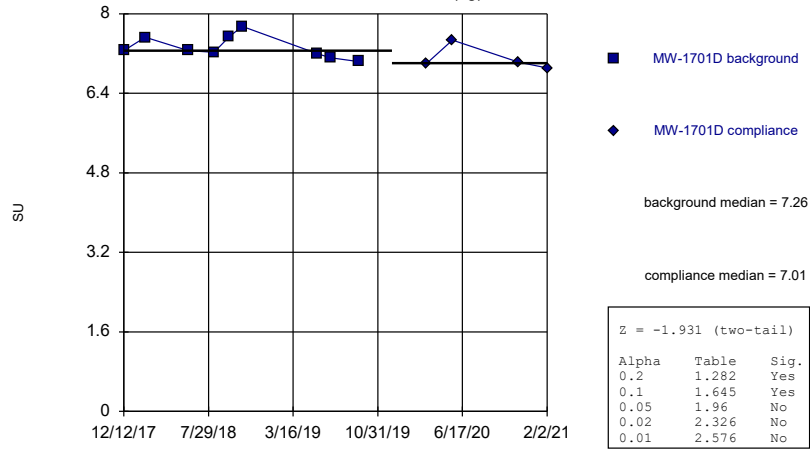
Mann-Whitney (Wilcoxon Rank Sum)

MW-1606S



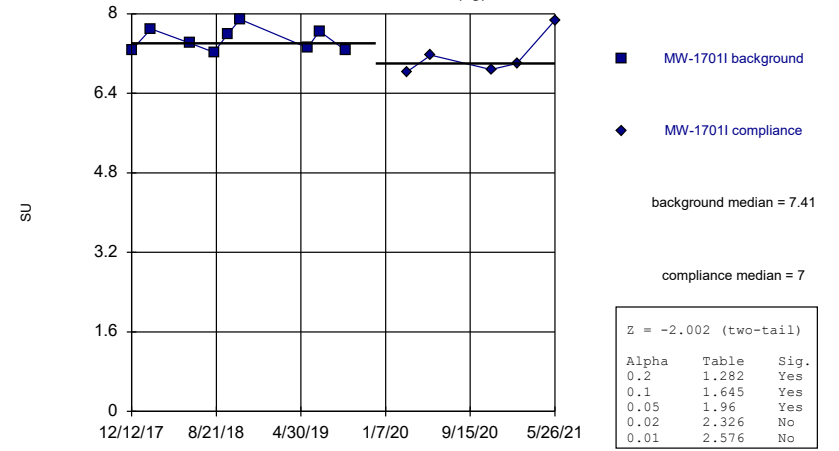
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1701D (bg)



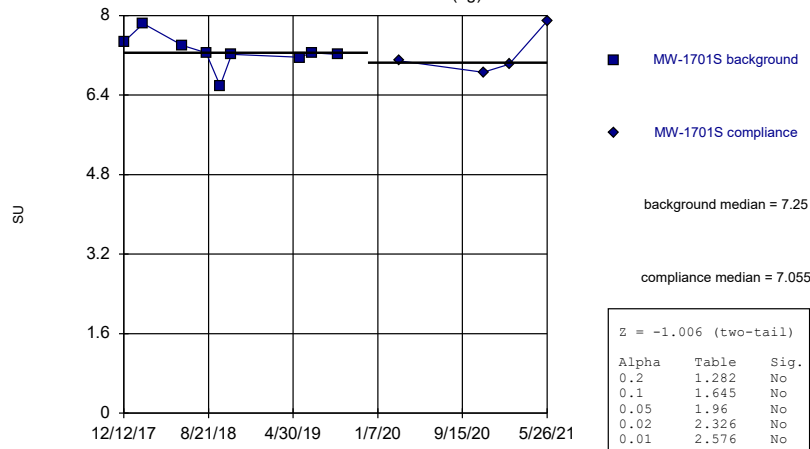
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-17011 (bg)



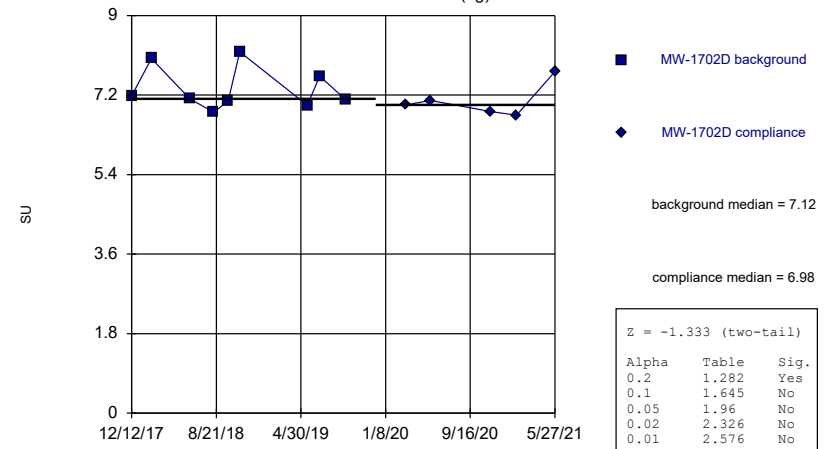
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1701S (bg)



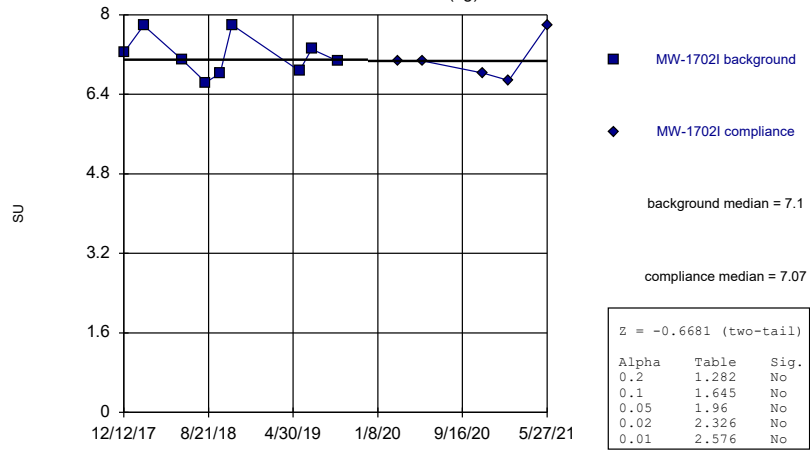
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1702D (bg)



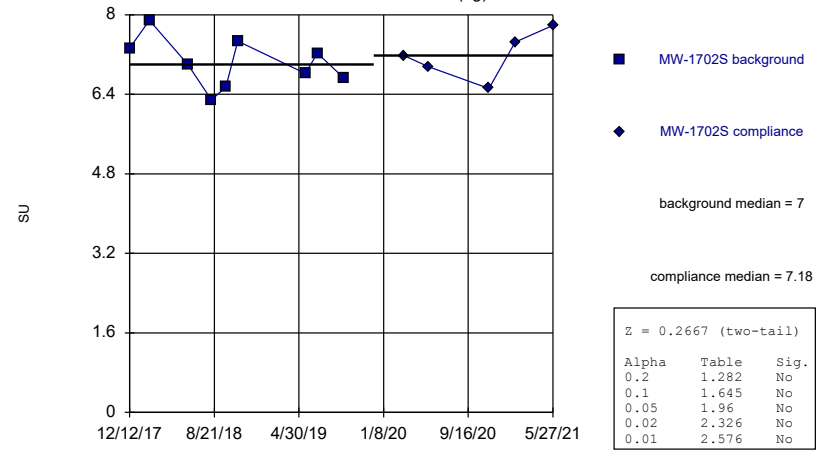
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1702I (bg)



Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Mann-Whitney (Wilcoxon Rank Sum)  
MW-1702S (bg)



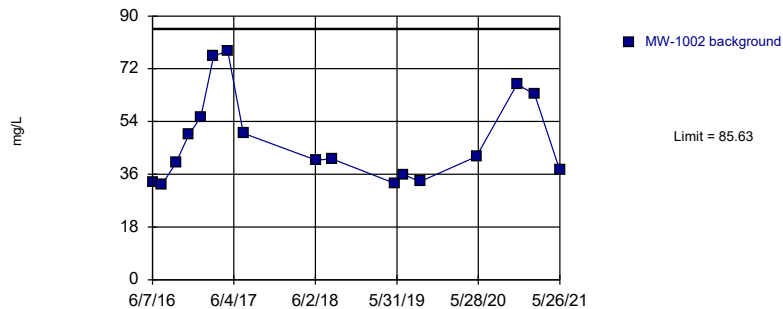
Constituent: pH, field Analysis Run 1/13/2022 12:15 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

# Intrawell Prediction Limits - All Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 12:39 PM

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-1002	85.63	n/a	n/a	1 future	n/a	17	47.58	15.22	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1600D	98.03	n/a	n/a	1 future	n/a	17	84.01	5.611	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1600I	84.68	n/a	n/a	1 future	n/a	17	76.08	3.443	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1600S	74.09	n/a	n/a	1 future	n/a	17	64.02	4.025	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1601D	95.56	n/a	n/a	1 future	n/a	17	86.54	3.609	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1601I	97.79	n/a	n/a	1 future	n/a	16	87.09	4.225	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1601S	87.95	n/a	n/a	1 future	n/a	17	76.49	4.585	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1602D	82.88	n/a	n/a	1 future	n/a	17	69.32	5.422	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1602I	90.9	n/a	n/a	1 future	n/a	16	77.71	5.21	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1603D	97.2	n/a	n/a	1 future	n/a	17	82.04	6.064	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1603I	105.1	n/a	n/a	1 future	n/a	17	85.74	7.743	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1603S	84.98	n/a	n/a	1 future	n/a	9	48.83	11.32	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1604D	77.55	n/a	n/a	1 future	n/a	17	70.25	2.921	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1604I	89.2	n/a	n/a	1 future	n/a	17	71.52	7.072	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1604S	117.6	n/a	n/a	1 future	n/a	17	75.89	16.67	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1605D	96.97	n/a	n/a	1 future	n/a	17	83.99	5.192	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1605I	107.3	n/a	n/a	1 future	n/a	17	85.69	8.627	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1605S	91.37	n/a	n/a	1 future	n/a	17	5531	1127	0	None	x^2	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1606D	91.22	n/a	n/a	1 future	n/a	17	76.49	5.893	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1606I	91.93	n/a	n/a	1 future	n/a	17	69.76	8.869	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1606S	76.1	n/a	n/a	1 future	n/a	17	n/a	n/a	0	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Calcium, total (mg/L)	MW-1701D	79.25	n/a	n/a	1 future	n/a	13	71.18	2.974	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1701I	78.84	n/a	n/a	1 future	n/a	13	67.03	4.354	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1701S	73.12	n/a	n/a	1 future	n/a	13	61.21	4.394	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1702D	93.61	n/a	n/a	1 future	n/a	13	81.48	4.471	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1702I	86.72	n/a	n/a	1 future	n/a	13	77.49	3.405	0	None	No	0.0005016	Param Intra 1 of 2
Calcium, total (mg/L)	MW-1702S	43	n/a	n/a	1 future	n/a	13	34.43	3.162	0	None	No	0.0005016	Param Intra 1 of 2
pH, field (SU)	MW-1002	8.02	5.563	n/a	1 future	n/a	18	6.791	0.4977	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1600D	7.909	6.275	n/a	1 future	n/a	18	7.092	0.3309	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1600I	7.813	6.444	n/a	1 future	n/a	16	7.129	0.2704	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1600S	7.577	5.946	n/a	1 future	n/a	17	6.762	0.3263	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1601D	7.845	6.154	n/a	1 future	n/a	17	6.999	0.3383	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1601I	7.884	6.172	n/a	1 future	n/a	15	7.028	0.3302	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1601S	7.822	6.344	n/a	1 future	n/a	17	7.083	0.2958	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1602D	8.234	6.332	n/a	1 future	n/a	17	7.283	0.3804	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1602I	7.908	6.564	n/a	1 future	n/a	18	7.236	0.2723	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1603D	7.926	6.293	n/a	1 future	n/a	18	7.109	0.3306	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1603I	8.096	6.61	n/a	1 future	n/a	17	7.353	0.2973	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1603S	7.731	6.175	n/a	1 future	n/a	17	6.953	0.3112	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1604D	7.808	6.429	n/a	1 future	n/a	18	7.118	0.2794	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1604I	8.07	6.583	n/a	1 future	n/a	18	7.327	0.3013	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1604S	8.181	6.619	n/a	1 future	n/a	17	7.4	0.3126	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1605D	7.477	6.666	n/a	1 future	n/a	16	7.072	0.1602	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1605I	7.604	6.73	n/a	1 future	n/a	17	7.167	0.1747	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1605S	7.62	6.603	n/a	1 future	n/a	17	7.112	0.2034	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1606D	8.37	6.88	n/a	1 future	n/a	16	n/a	n/a	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2
pH, field (SU)	MW-1606I	8.473	6.297	n/a	1 future	n/a	16	2.71	0.07931	0	None	sqrt(x)	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1606S	7.85	6.68	n/a	1 future	n/a	17	n/a	n/a	0	n/a	n/a	0.01183	NP Intra (normality) 1 of 2
pH, field (SU)	MW-1701D	7.937	6.576	n/a	1 future	n/a	13	7.256	0.251	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1701I	8.266	6.46	n/a	1 future	n/a	14	7.363	0.3406	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1701S	8.211	6.291	n/a	1 future	n/a	13	7.251	0.3541	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1702D	8.461	6.033	n/a	1 future	n/a	14	7.247	0.4578	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1702I	8.206	6.092	n/a	1 future	n/a	14	7.149	0.3987	0	None	No	0.0002508	Param Intra 1 of 2
pH, field (SU)	MW-1702S	8.354	5.821	n/a	1 future	n/a	14	7.087	0.4777	0	None	No	0.0002508	Param Intra 1 of 2

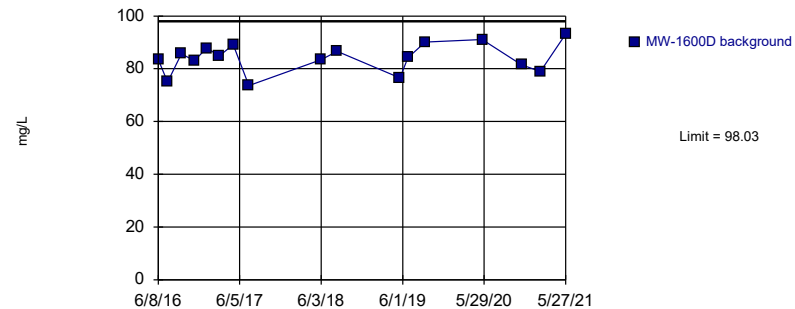
Prediction Limit  
Intrawell Parametric, MW-1002



Background Data Summary: Mean=47.58, Std. Dev.=15.22, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8609, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:37 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

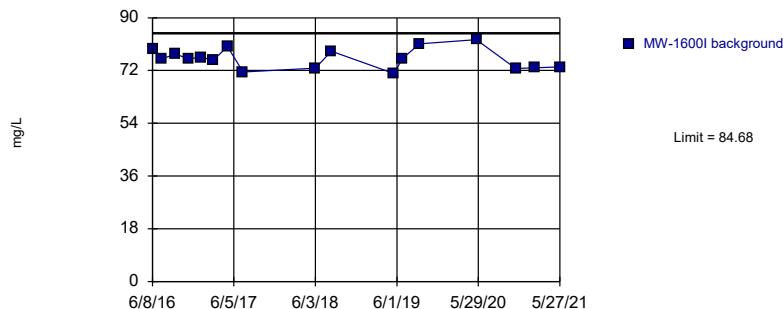
Prediction Limit  
Intrawell Parametric, MW-1600D (bg)



Background Data Summary: Mean=84.01, Std. Dev.=5.611, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9673, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:37 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

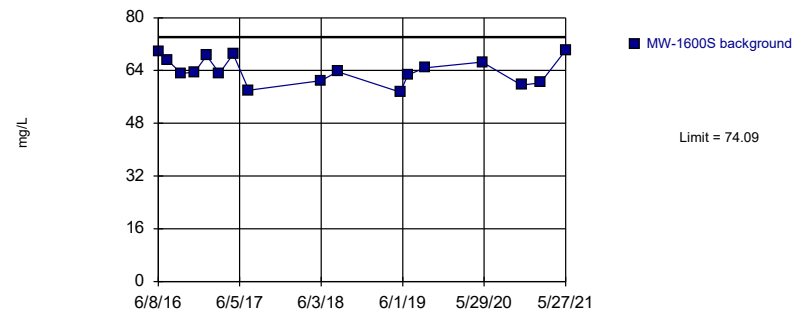
Prediction Limit  
Intrawell Parametric, MW-1600I (bg)



Background Data Summary: Mean=76.08, Std. Dev.=3.443, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9553, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:37 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

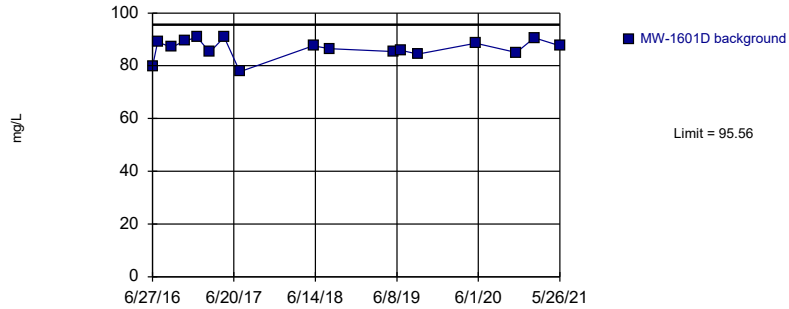
Prediction Limit  
Intrawell Parametric, MW-1600S (bg)



Background Data Summary: Mean=64.02, Std. Dev.=4.025, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.955, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:37 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

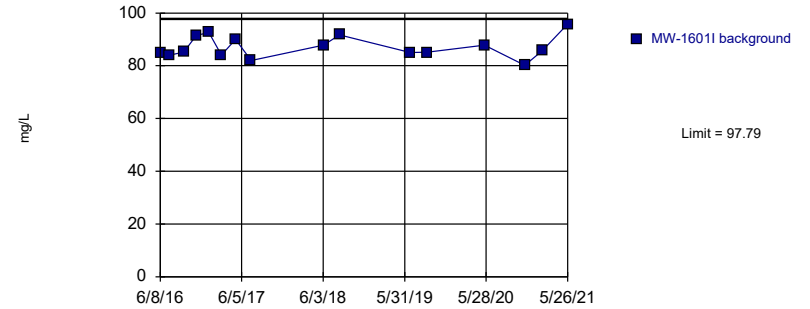
Prediction Limit  
Intrawell Parametric, MW-1601D (bg)



Background Data Summary: Mean=86.54, Std. Dev.=3.609, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8957, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:37 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

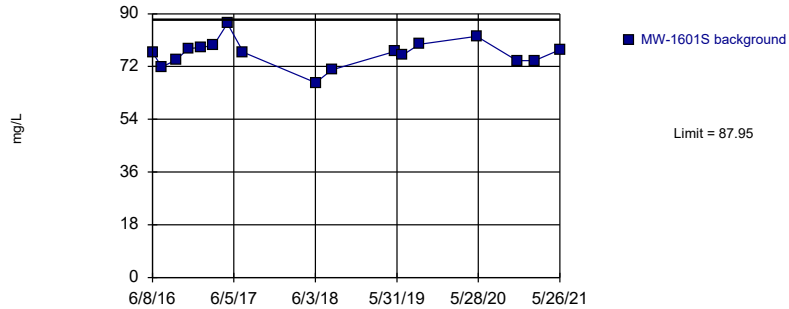
Prediction Limit  
Intrawell Parametric, MW-1601I (bg)



Background Data Summary: Mean=87.09, Std. Dev.=4.225, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9511, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

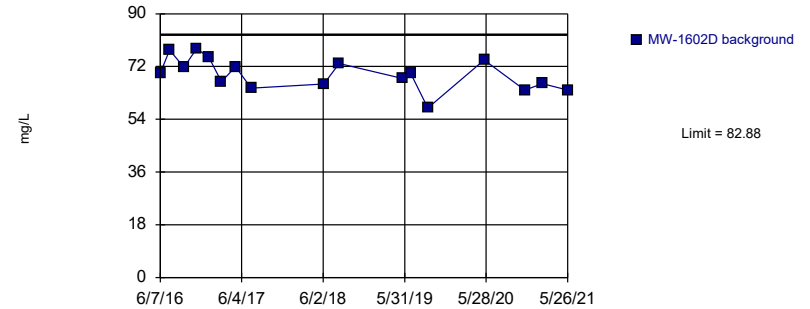
Prediction Limit  
Intrawell Parametric, MW-1601S (bg)



Background Data Summary: Mean=76.49, Std. Dev.=4.585, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9727, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

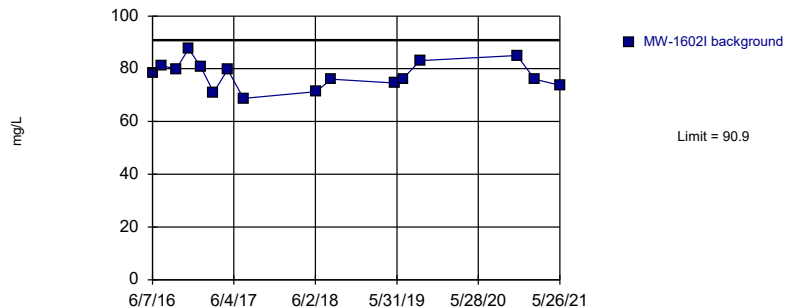
Prediction Limit  
Intrawell Parametric, MW-1602D



Background Data Summary: Mean=69.32, Std. Dev.=5.422, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9724, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

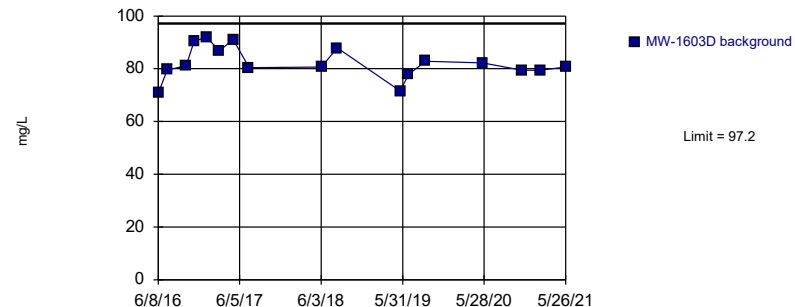
### Prediction Limit Intrawell Parametric, MW-1602I



Background Data Summary: Mean=77.71, Std. Dev.=5.21, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9834, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

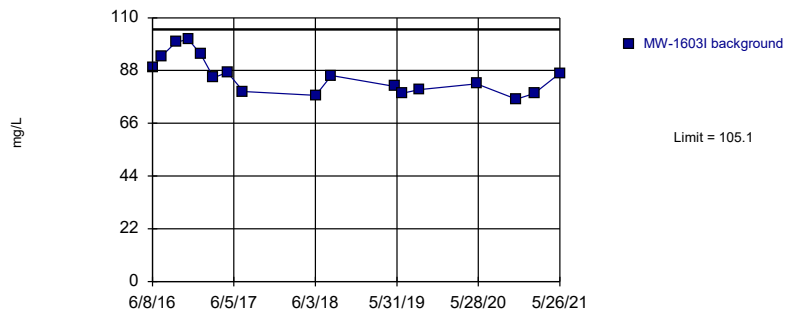
### Prediction Limit Intrawell Parametric, MW-1603D



Background Data Summary: Mean=82.04, Std. Dev.=6.064, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9298, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

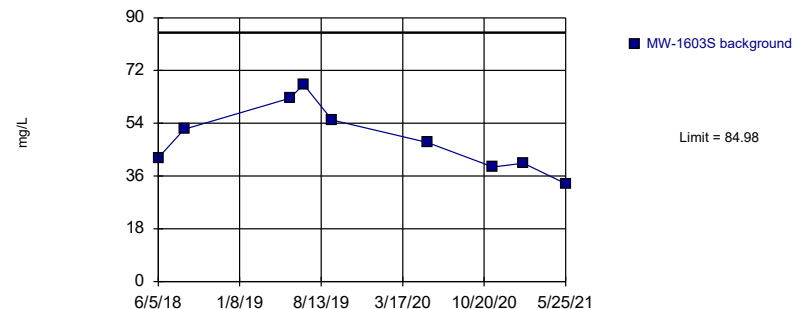
### Prediction Limit Intrawell Parametric, MW-1603I



Background Data Summary: Mean=85.74, Std. Dev.=7.743, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9139, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Prediction Limit Intrawell Parametric, MW-1603S

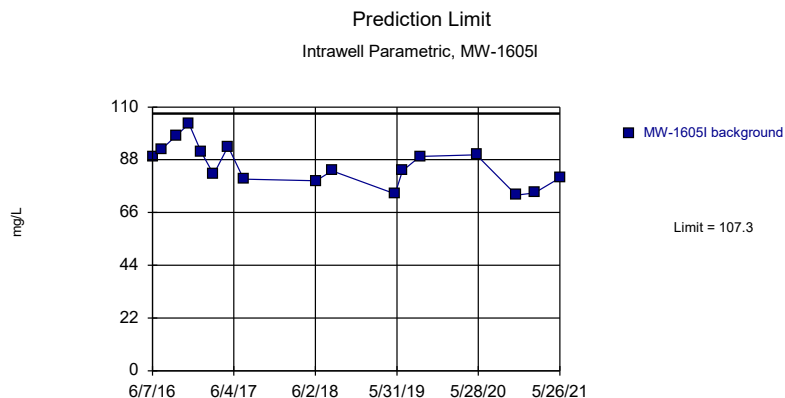


Background Data Summary: Mean=48.83, Std. Dev.=11.32, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.764. Kappa = 3.192 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

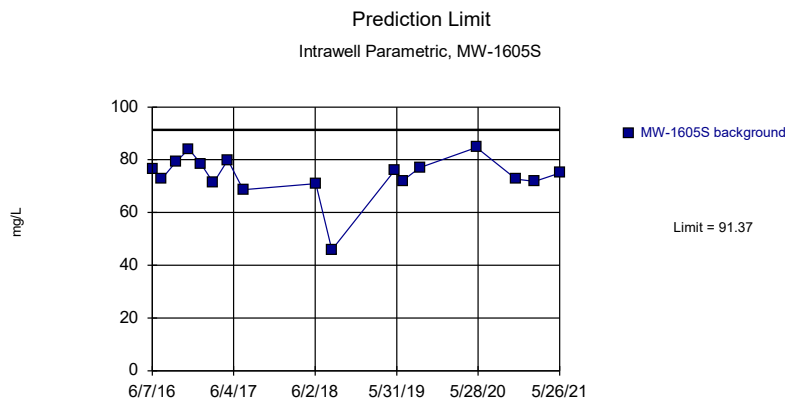






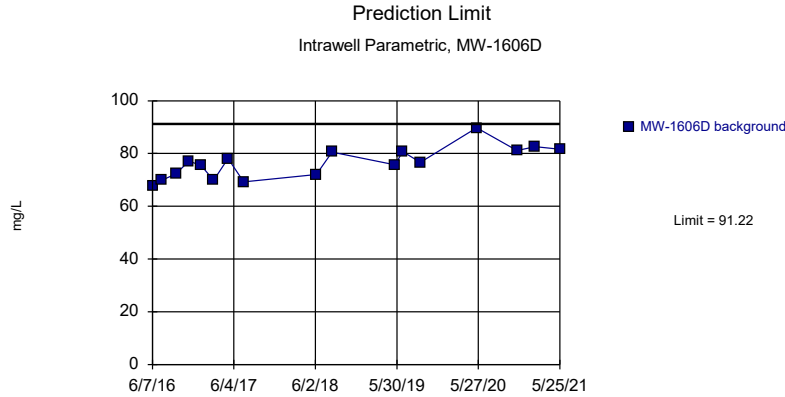
Background Data Summary: Mean=85.69, Std. Dev.=8.627, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



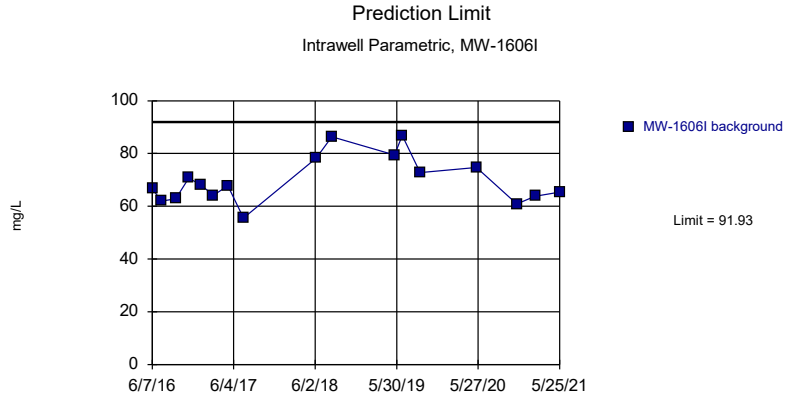
Background Data Summary (based on square transformation): Mean=5531, Std. Dev.=1127, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8535, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



Background Data Summary: Mean=76.49, Std. Dev.=5.893, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

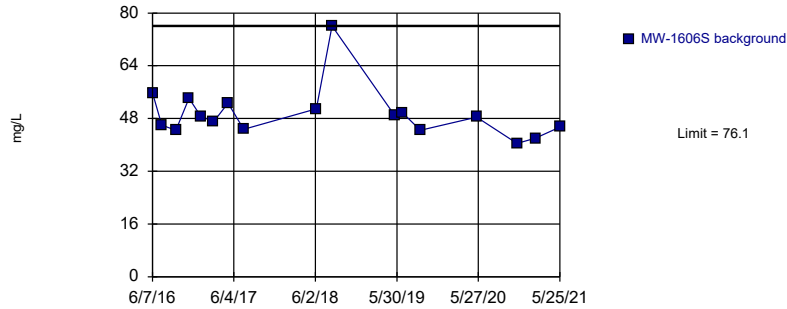
Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



Background Data Summary: Mean=69.76, Std. Dev.=8.869, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9419, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

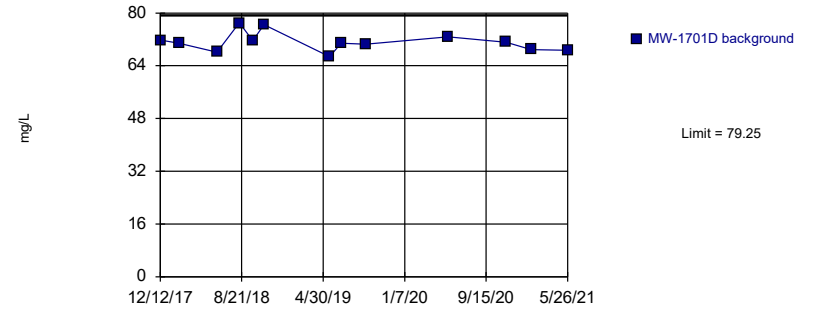
### Prediction Limit Intrawell Non-parametric, MW-1606S



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2). Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

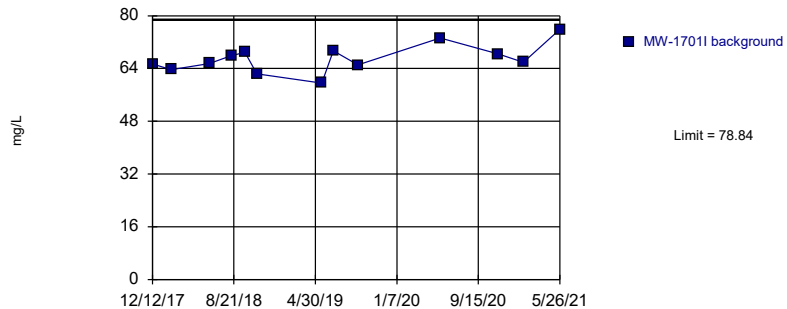
### Prediction Limit Intrawell Parametric, MW-1701D (bg)



Background Data Summary: Mean=71.18, Std. Dev.=2.974, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9197, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

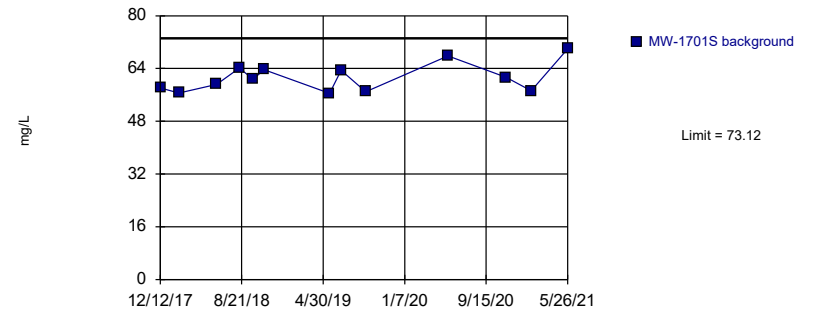
### Prediction Limit Intrawell Parametric, MW-1701I (bg)



Background Data Summary: Mean=67.03, Std. Dev.=4.354, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9684, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

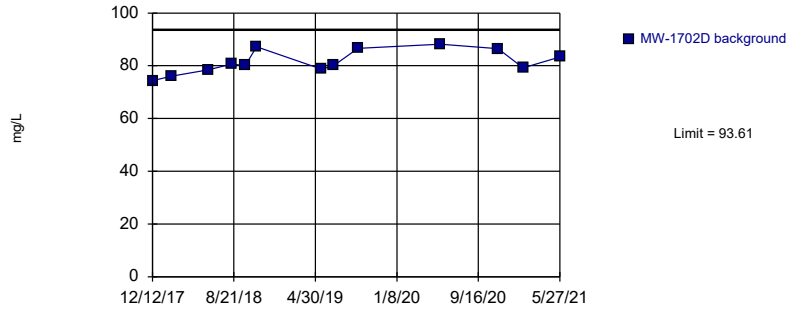
### Prediction Limit Intrawell Parametric, MW-1701S (bg)



Background Data Summary: Mean=61.21, Std. Dev.=4.394, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9058, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

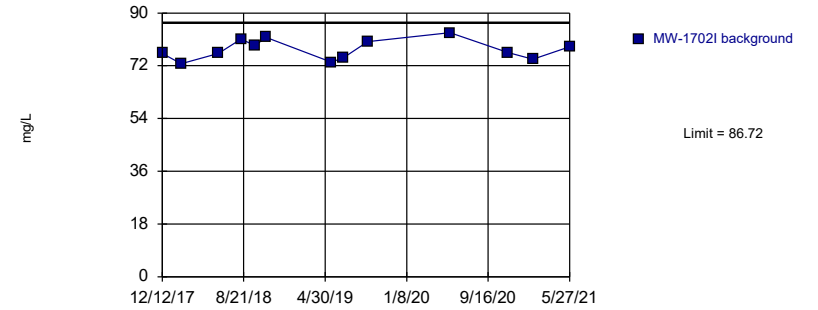
Prediction Limit  
Intrawell Parametric, MW-1702D (bg)



Background Data Summary: Mean=81.48, Std. Dev.=4.471, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9271, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

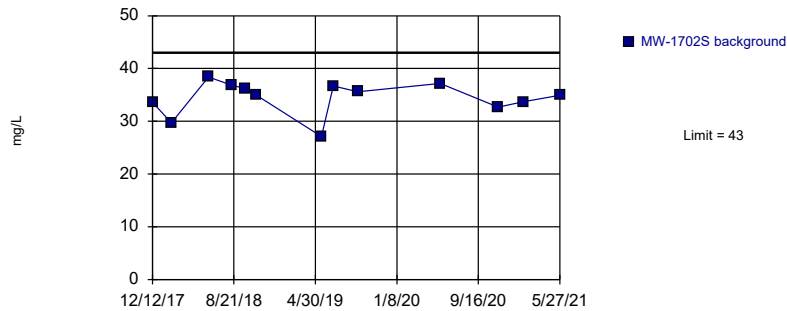
Prediction Limit  
Intrawell Parametric, MW-1702I (bg)



Background Data Summary: Mean=77.49, Std. Dev.=3.405, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

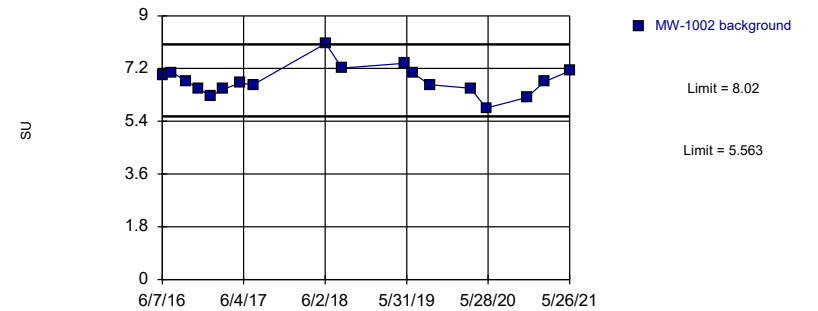
Prediction Limit  
Intrawell Parametric, MW-1702S (bg)



Background Data Summary: Mean=34.43, Std. Dev.=3.162, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9024, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: Calcium, total Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

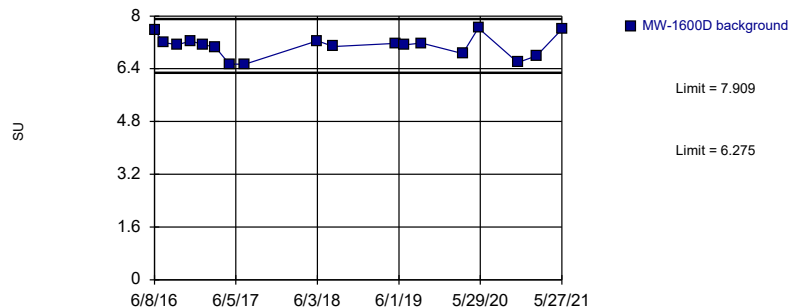
Prediction Limit  
Intrawell Parametric, MW-1002



Background Data Summary: Mean=6.791, Std. Dev.=0.4977, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

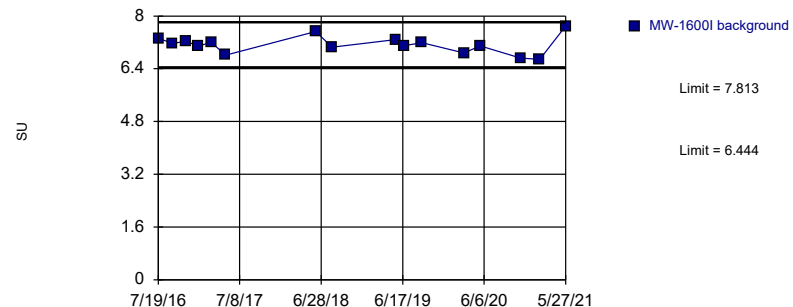
Prediction Limit  
Intrawell Parametric, MW-1600D (bg)



Background Data Summary: Mean=7.092, Std. Dev.=0.3309, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9263, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

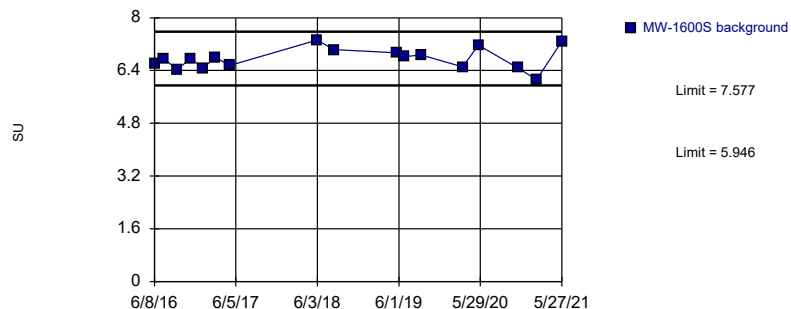
Prediction Limit  
Intrawell Parametric, MW-1600I (bg)



Background Data Summary: Mean=7.129, Std. Dev.=0.2704, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9622, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

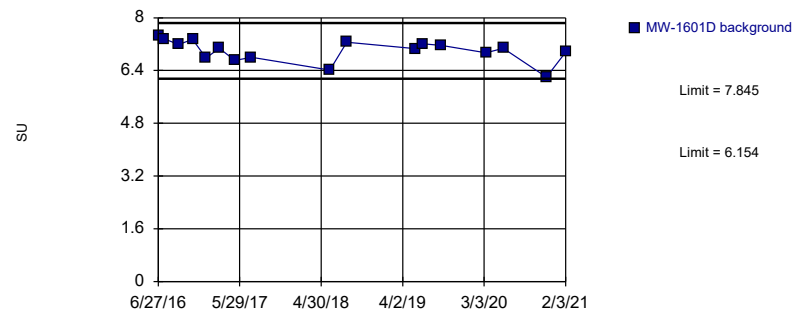
Prediction Limit  
Intrawell Parametric, MW-1600S (bg)



Background Data Summary: Mean=6.762, Std. Dev.=0.3263, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

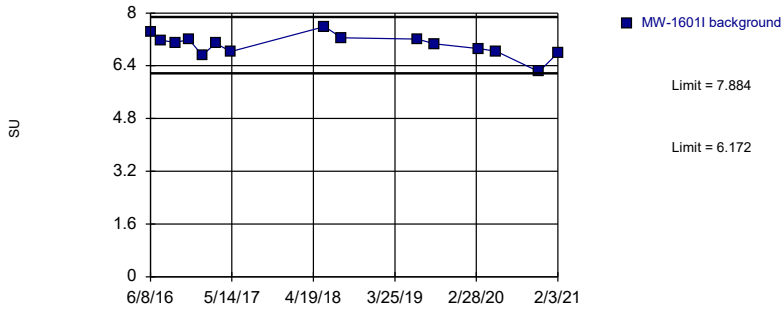
Prediction Limit  
Intrawell Parametric, MW-1601D (bg)



Background Data Summary: Mean=6.999, Std. Dev.=0.3383, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9334, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

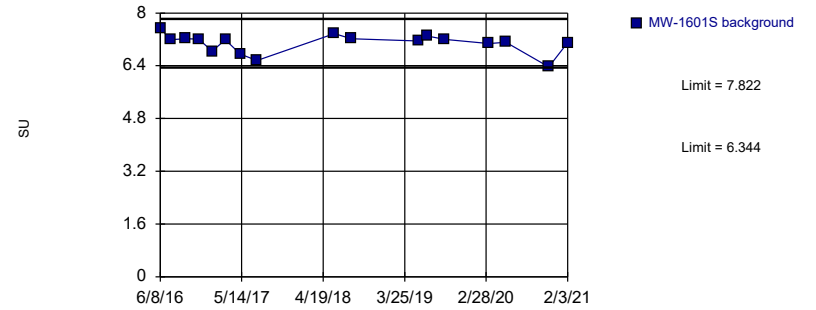
Prediction Limit  
 Intrawell Parametric, MW-16011 (bg)



Background Data Summary: Mean=7.028, Std. Dev.=0.3302, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9534, critical = 0.835. Kappa = 2.591 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

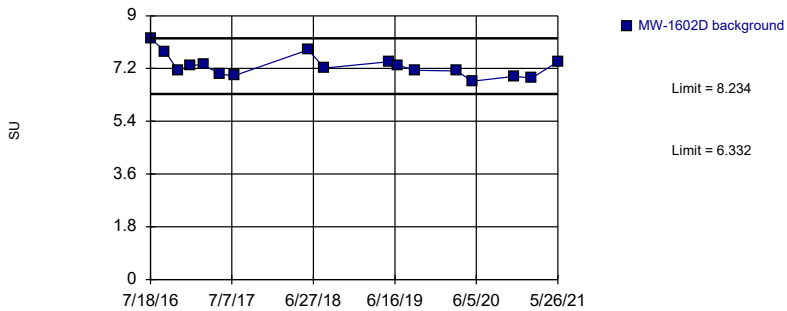
Prediction Limit  
 Intrawell Parametric, MW-1601S (bg)



Background Data Summary: Mean=7.083, Std. Dev.=0.2958, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8836, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

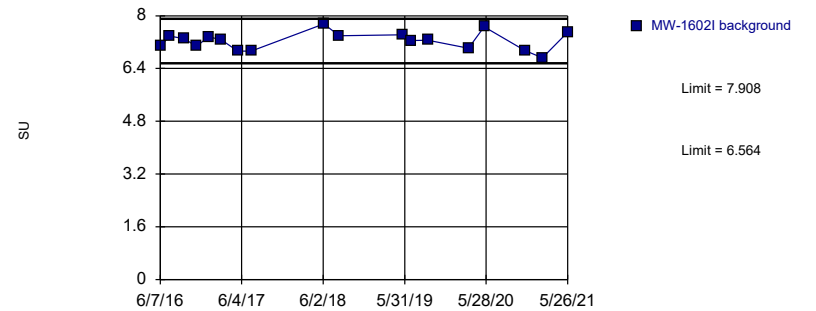
Prediction Limit  
 Intrawell Parametric, MW-1602D



Background Data Summary: Mean=7.283, Std. Dev.=0.3804, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

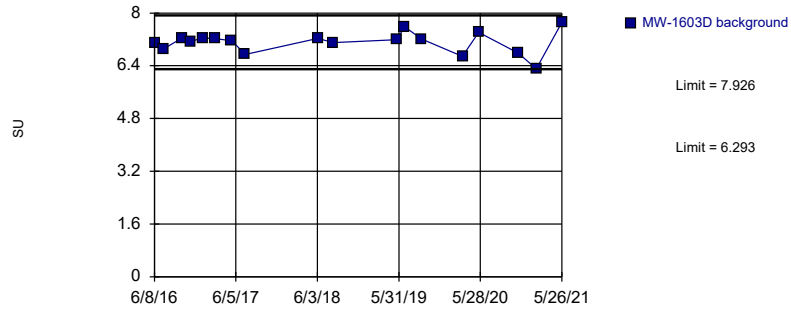
Prediction Limit  
 Intrawell Parametric, MW-1602I



Background Data Summary: Mean=7.236, Std. Dev.=0.2723, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.974, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

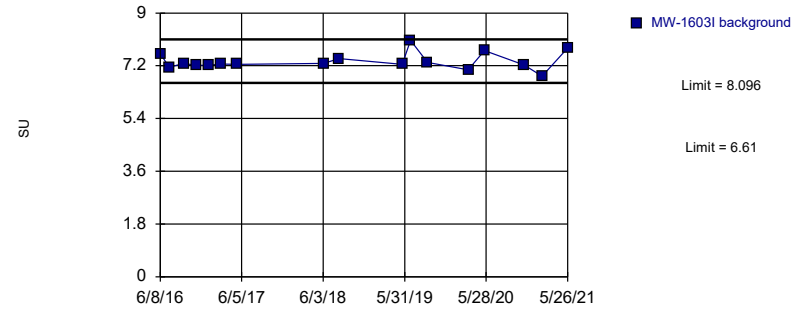
### Prediction Limit Intrawell Parametric, MW-1603D



Background Data Summary: Mean=7.109, Std. Dev.=0.3306, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

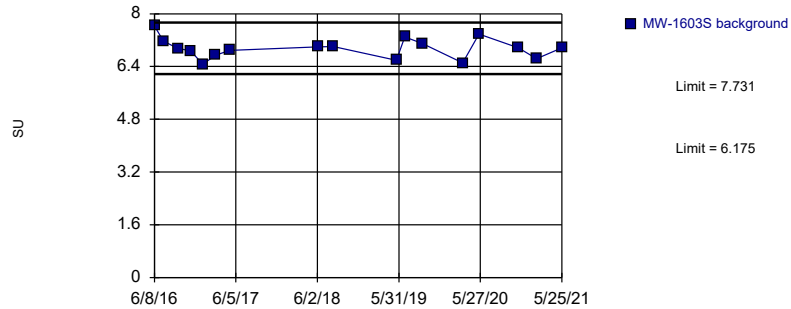
### Prediction Limit Intrawell Parametric, MW-1603I



Background Data Summary: Mean=7.353, Std. Dev.=0.2973, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8941, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

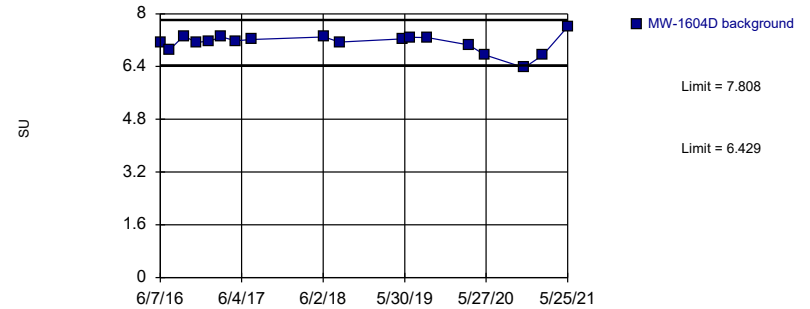
### Prediction Limit Intrawell Parametric, MW-1603S



Background Data Summary: Mean=6.953, Std. Dev.=0.3112, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9679, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

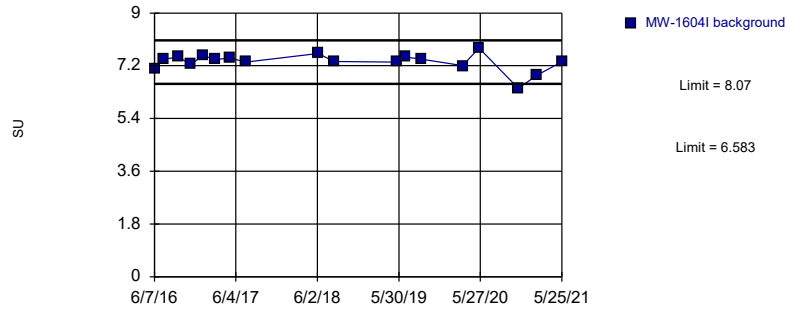
### Prediction Limit Intrawell Parametric, MW-1604D



Background Data Summary: Mean=7.118, Std. Dev.=0.2794, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8916, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

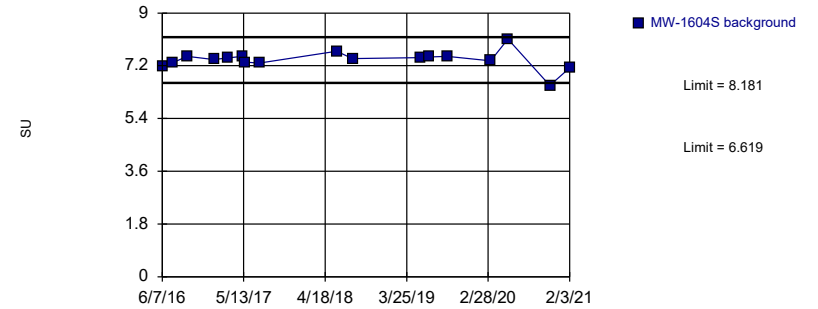
Prediction Limit  
Intrawell Parametric, MW-1604I



Background Data Summary: Mean=7.327, Std. Dev.=0.3013, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8642, critical = 0.858. Kappa = 2.468 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

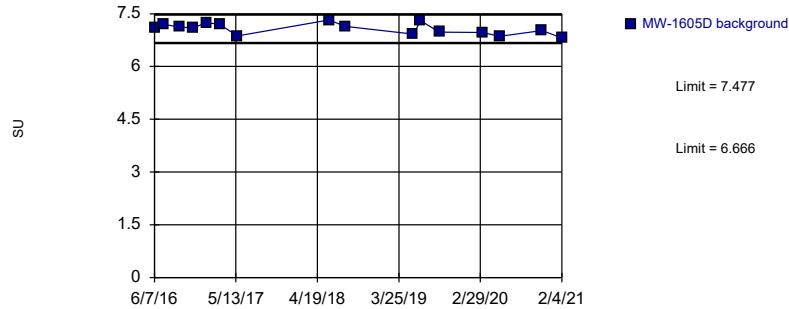
Prediction Limit  
Intrawell Parametric, MW-1604S



Background Data Summary: Mean=7.4, Std. Dev.=0.3126, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8675, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

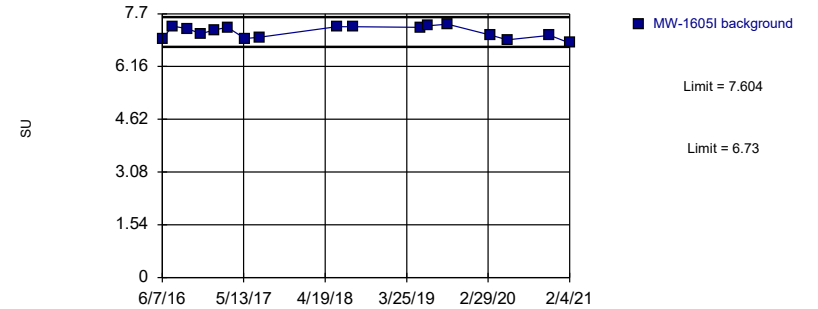
Prediction Limit  
Intrawell Parametric, MW-1605D



Background Data Summary: Mean=7.072, Std. Dev.=0.1602, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9607, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Prediction Limit  
Intrawell Parametric, MW-1605I

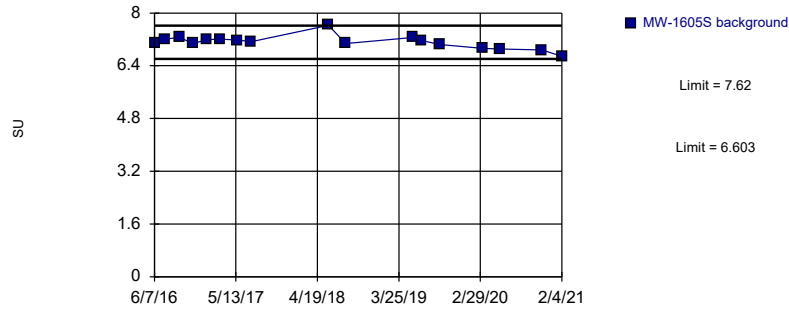


Background Data Summary: Mean=7.167, Std. Dev.=0.1747, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9076, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



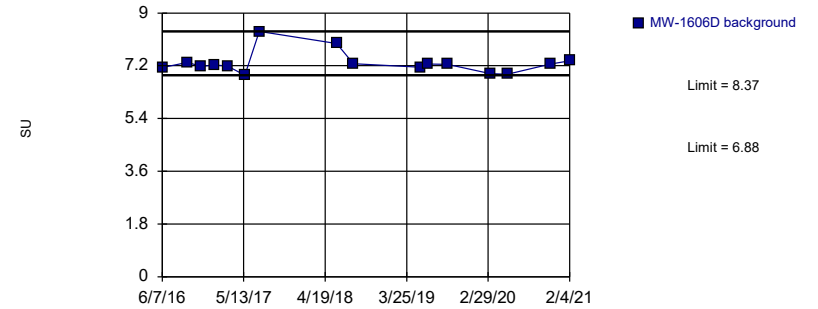
Prediction Limit  
Intrawell Parametric, MW-1605S



Background Data Summary: Mean=7.112, Std. Dev.=0.2034, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9348, critical = 0.851. Kappa = 2.5 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

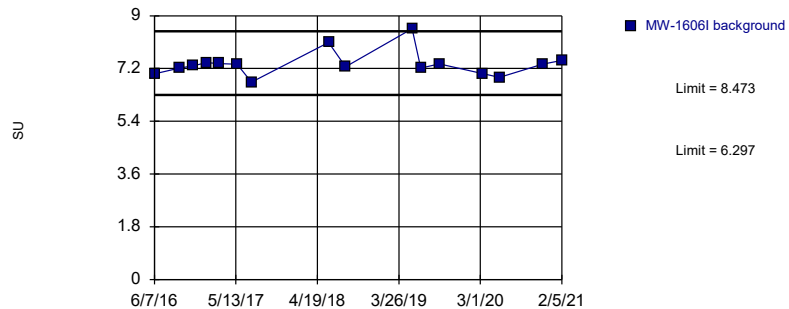
Prediction Limit  
Intrawell Non-parametric, MW-1606D



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 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2). Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

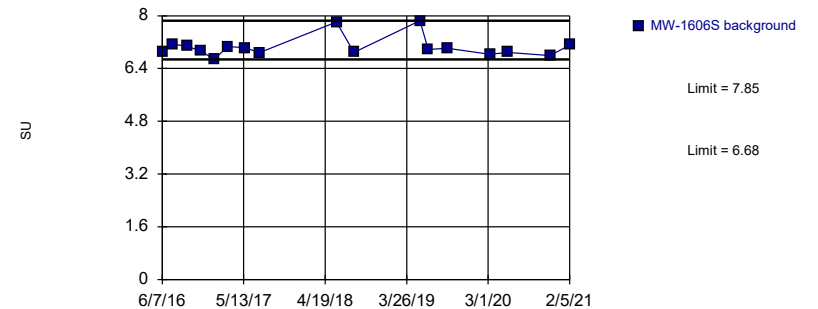
Prediction Limit  
Intrawell Parametric, MW-1606I



Background Data Summary (based on square root transformation): Mean=2.71, Std. Dev.=0.07931, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8451, critical = 0.844. Kappa = 2.531 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

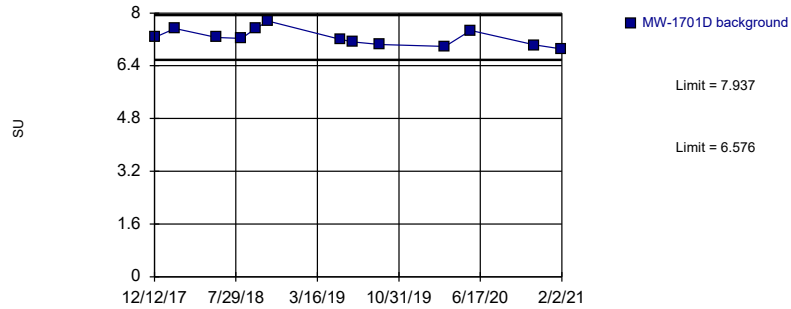
Prediction Limit  
Intrawell Non-parametric, MW-1606S



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 17 background values. Well-constituent pair annual alpha = 0.02359. Individual comparison alpha = 0.01183 (1 of 2). Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

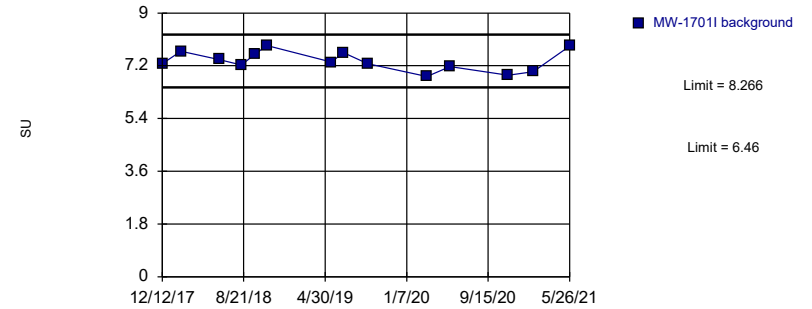
Prediction Limit  
Intrawell Parametric, MW-1701D (bg)



Background Data Summary: Mean=7.256, Std. Dev.=0.251, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

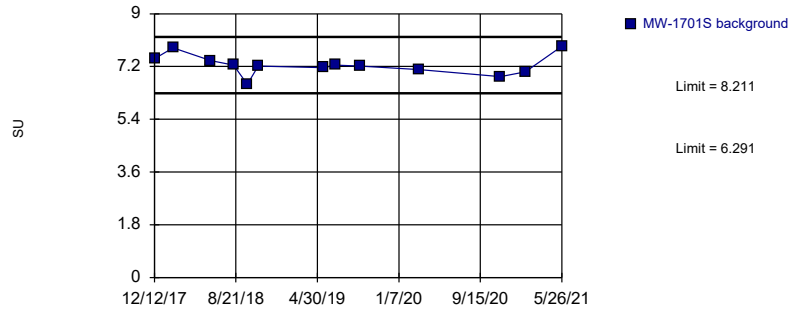
Prediction Limit  
Intrawell Parametric, MW-17011 (bg)



Background Data Summary: Mean=7.363, Std. Dev.=0.3406, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

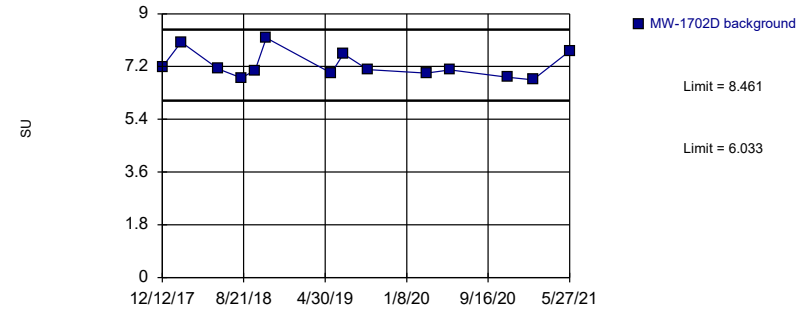
Prediction Limit  
Intrawell Parametric, MW-1701S (bg)



Background Data Summary: Mean=7.251, Std. Dev.=0.3541, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9498, critical = 0.814. Kappa = 2.711 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

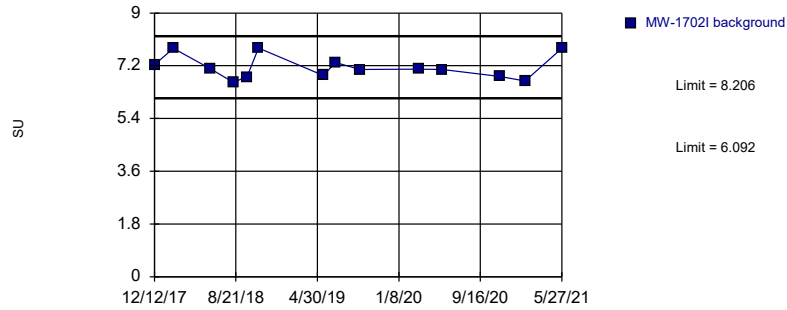
Prediction Limit  
Intrawell Parametric, MW-1702D (bg)



Background Data Summary: Mean=7.247, Std. Dev.=0.4578, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8534, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

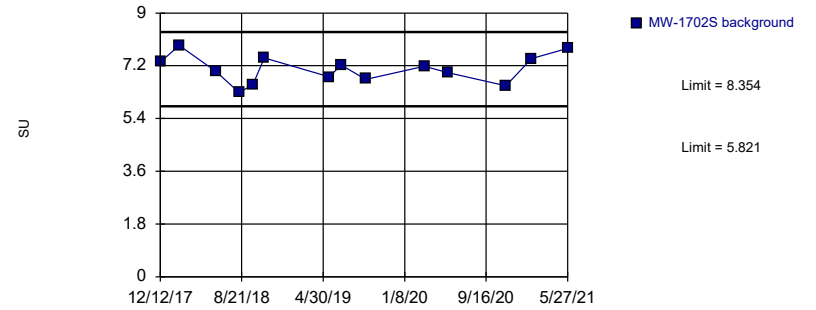
Prediction Limit  
Intrawell Parametric, MW-1702I (bg)



Background Data Summary: Mean=7.149, Std. Dev.=0.3987, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8831, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Prediction Limit  
Intrawell Parametric, MW-1702S (bg)



Background Data Summary: Mean=7.087, Std. Dev.=0.4777, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9778, critical = 0.825. Kappa = 2.651 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005016. Assumes 1 future value.

Constituent: pH, field Analysis Run 1/13/2022 12:38 PM View: Intrawell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

# Trend Tests - Upgradient Wells - Significant Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/14/2022, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-1701I (bg)	-0.01227	-57	-48	Yes	14	21.43	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1702S (bg)	-0.005623	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1600D (bg)	-0.3497	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1601I (bg)	-0.5096	-68	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1601S (bg)	-1.395	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1701S (bg)	0.5207	50	48	Yes	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1600D (bg)	0.00908	88	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1600I (bg)	0.009472	83	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1601I (bg)	0.0102	71	68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1701I (bg)	0.01952	59	53	Yes	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1701S (bg)	0.01448	61	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1601S (bg)	4.414	87	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1701S (bg)	-1.426	-71	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1600S (bg)	-9.307	-78	-68	Yes	18	0	n/a	n/a	0.01	NP

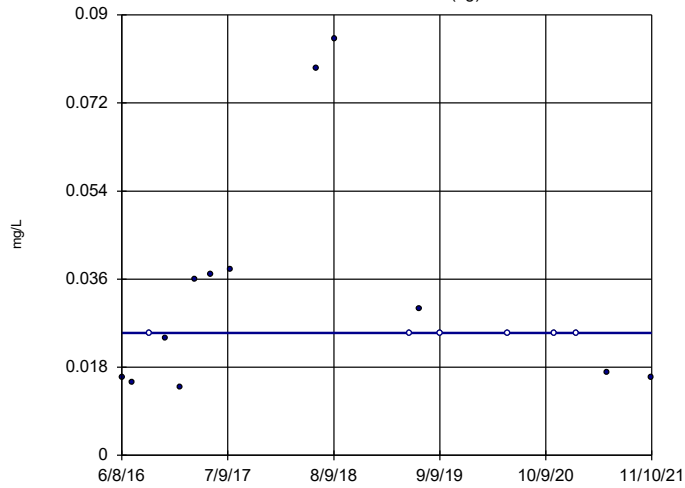
# Trend Tests - Upgradient Wells - All Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/14/2022, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-1600D (bg)	0	3	68	No	18	33.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1600I (bg)	0.000307	13	68	No	18	11.11	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1600S (bg)	-0.001099	-19	-68	No	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1601D (bg)	-0.001236	-32	-68	No	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1601I (bg)	-0.0007368	-17	-63	No	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1601S (bg)	-0.002617	-17	-68	No	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1701D (bg)	-0.009552	-31	-48	No	14	0	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MW-1701I (bg)</b>	<b>-0.01227</b>	<b>-57</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>21.43</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	MW-1701S (bg)	-0.00553	-44	-48	No	14	35.71	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1702D (bg)	-0.01074	-46	-48	No	14	28.57	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1702I (bg)	-0.009406	-43	-48	No	14	28.57	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>MW-1702S (bg)</b>	<b>-0.005623</b>	<b>-53</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, total (mg/L)</b>	<b>MW-1600D (bg)</b>	<b>-0.3497</b>	<b>-69</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, total (mg/L)	MW-1600I (bg)	0	5	68	No	18	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1600S (bg)	0.8738	25	68	No	18	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1601D (bg)	-0.3911	-36	-68	No	18	0	n/a	n/a	0.01	NP
<b>Chloride, total (mg/L)</b>	<b>MW-1601I (bg)</b>	<b>-0.5096</b>	<b>-68</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, total (mg/L)</b>	<b>MW-1601S (bg)</b>	<b>-1.395</b>	<b>-90</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, total (mg/L)	MW-1701D (bg)	-0.1308	-7	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1701I (bg)	-0.2048	-14	-48	No	14	0	n/a	n/a	0.01	NP
<b>Chloride, total (mg/L)</b>	<b>MW-1701S (bg)</b>	<b>0.5207</b>	<b>50</b>	<b>48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, total (mg/L)	MW-1702D (bg)	-0.0421	-8	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1702I (bg)	0.1221	12	48	No	14	0	n/a	n/a	0.01	NP
Chloride, total (mg/L)	MW-1702S (bg)	-0.05091	-10	-48	No	14	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>MW-1600D (bg)</b>	<b>0.00908</b>	<b>88</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MW-1600I (bg)</b>	<b>0.009472</b>	<b>83</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	MW-1600S (bg)	0.02713	72	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1601D (bg)	0	16	74	No	19	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>MW-1601I (bg)</b>	<b>0.0102</b>	<b>71</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	MW-1601S (bg)	0.01817	67	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1701D (bg)	0.01022	39	53	No	15	0	n/a	n/a	0.01	NP
<b>Fluoride, total (mg/L)</b>	<b>MW-1701I (bg)</b>	<b>0.01952</b>	<b>59</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride, total (mg/L)</b>	<b>MW-1701S (bg)</b>	<b>0.01448</b>	<b>61</b>	<b>53</b>	<b>Yes</b>	<b>15</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride, total (mg/L)	MW-1702D (bg)	0.002556	22	53	No	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1702I (bg)	0.008838	44	53	No	15	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1702S (bg)	0.02848	47	53	No	15	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1600D (bg)	0.2122	9	68	No	18	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1600I (bg)	0.2035	15	68	No	18	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1600S (bg)	-3.474	-63	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1601D (bg)	-0.3115	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1601I (bg)	0.07247	5	63	No	17	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>MW-1601S (bg)</b>	<b>4.414</b>	<b>87</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	MW-1701D (bg)	-0.4155	-22	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1701I (bg)	-1.282	-32	-48	No	14	0	n/a	n/a	0.01	NP
<b>Sulfate, total (mg/L)</b>	<b>MW-1701S (bg)</b>	<b>-1.426</b>	<b>-71</b>	<b>-48</b>	<b>Yes</b>	<b>14</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate, total (mg/L)	MW-1702D (bg)	-0.8965	-48	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1702I (bg)	-0.9896	-37	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate, total (mg/L)	MW-1702S (bg)	-1.444	-43	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1600D (bg)	-2.336	-26	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1600I (bg)	-2.891	-40	-68	No	18	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>MW-1600S (bg)</b>	<b>-9.307</b>	<b>-78</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	MW-1601D (bg)	-1.992	-38	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1601I (bg)	-1.618	-33	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1601S (bg)	0	0	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1701D (bg)	-4.768	-29	-43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1701I (bg)	0.5739	2	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1701S (bg)	-5.023	-19	-48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1702D (bg)	5.239	38	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1702I (bg)	0.3999	7	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1702S (bg)	-0.9892	-7	-48	No	14	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

MW-1600D (bg)

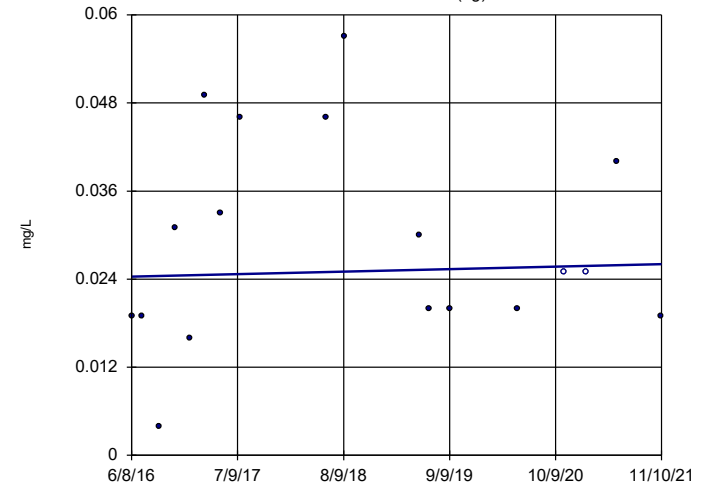


n = 18  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 3  
critical = 68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1600I (bg)

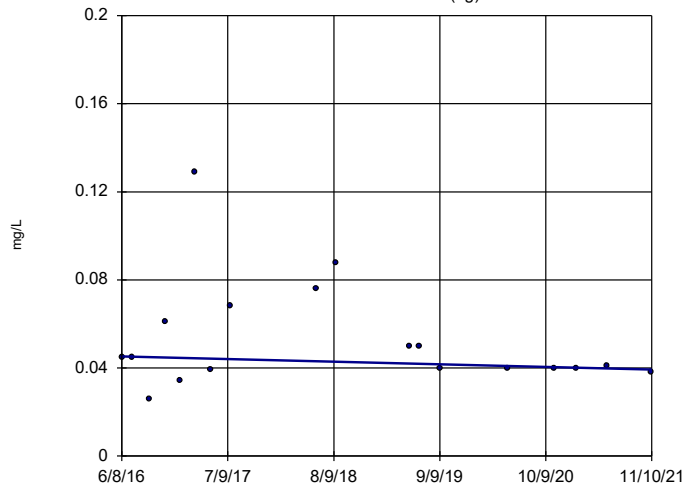


n = 18  
Slope = 0.000307  
units per year.  
Mann-Kendall  
statistic = 13  
critical = 68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1600S (bg)

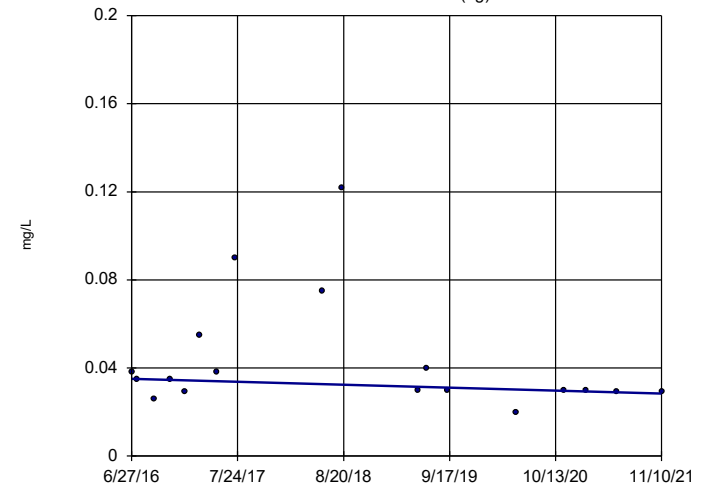


n = 18  
Slope = -0.001099  
units per year.  
Mann-Kendall  
statistic = -19  
critical = -68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1601D (bg)

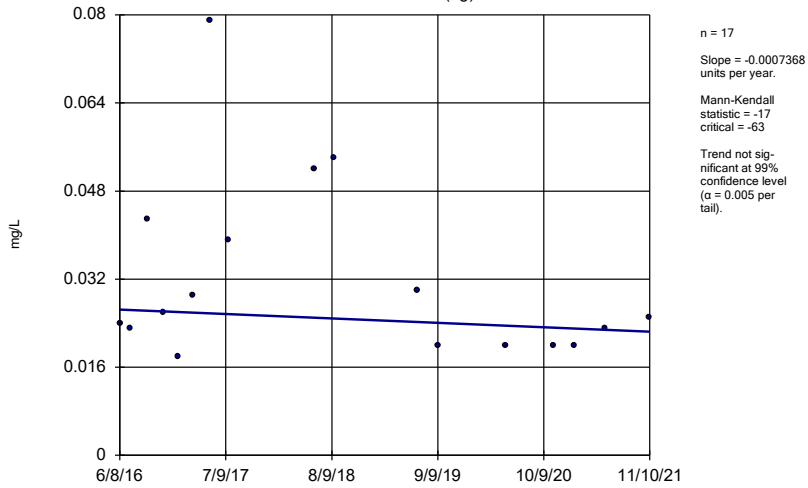


n = 18  
Slope = -0.001236  
units per year.  
Mann-Kendall  
statistic = -32  
critical = -68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

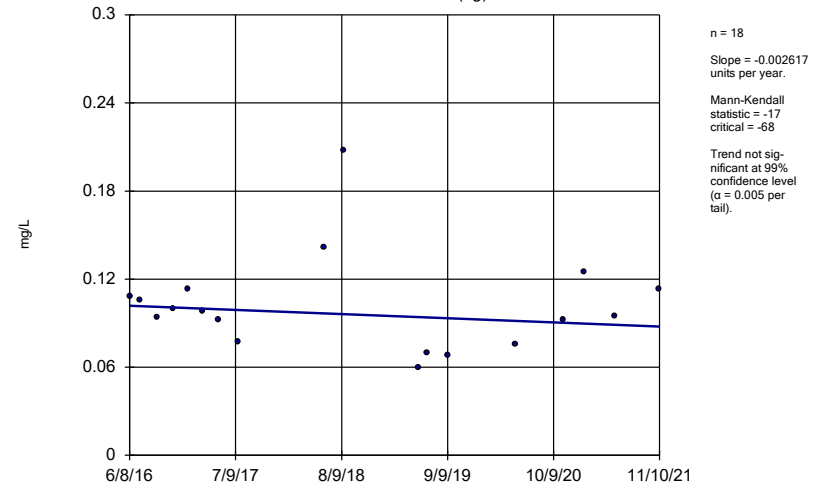
MW-16011 (bg)



Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

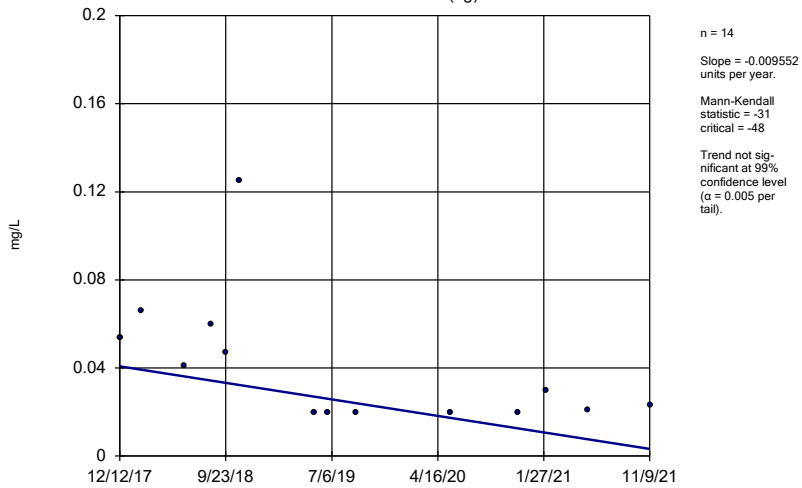
MW-1601S (bg)



Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

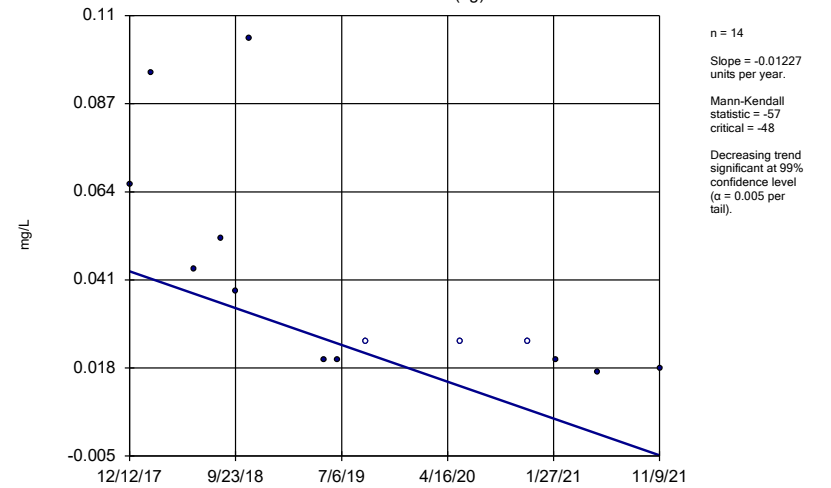
MW-1701D (bg)



Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

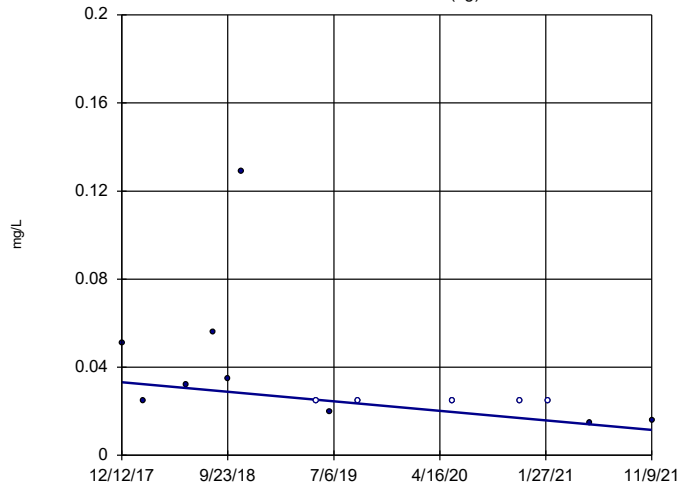
MW-17011 (bg)



Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

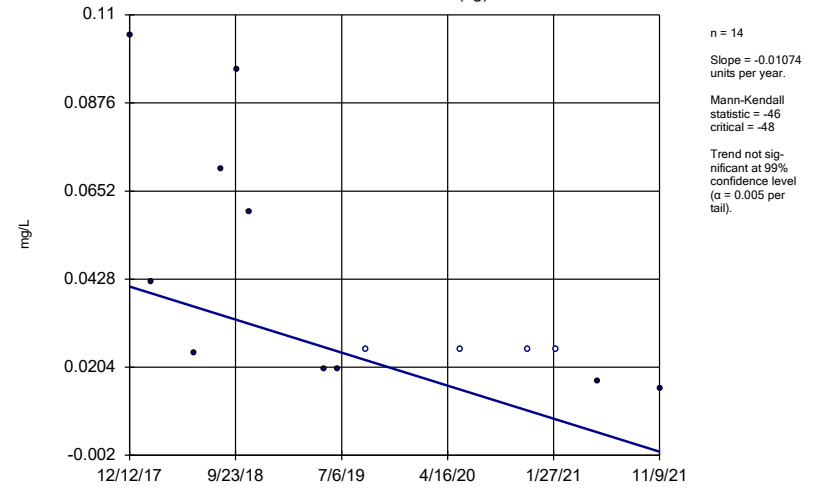
MW-1701S (bg)



Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

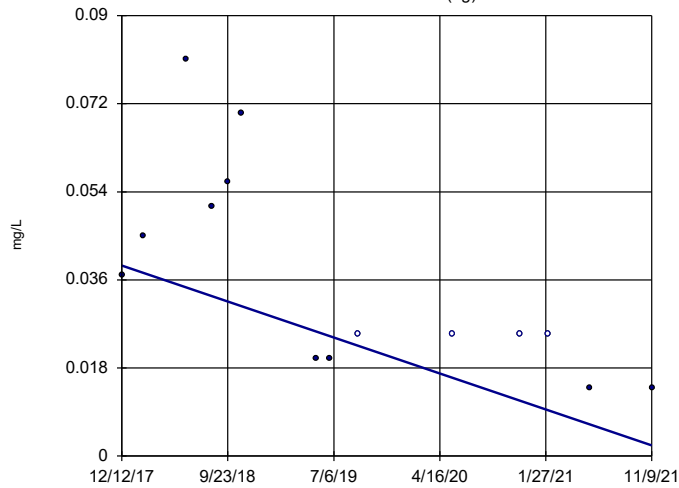
MW-1702D (bg)



Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

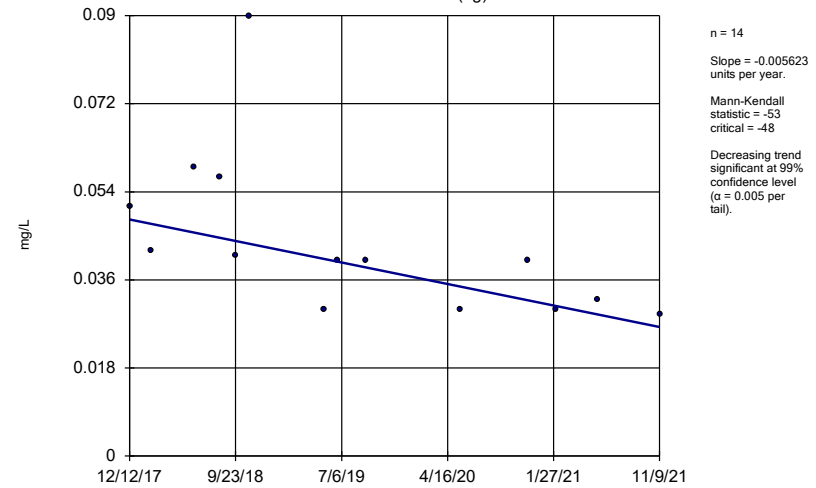
MW-1702I (bg)



Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702S (bg)

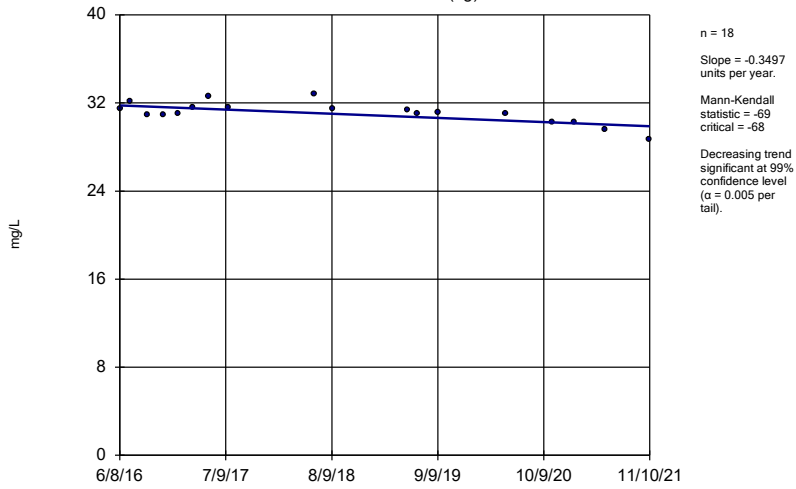


Constituent: Boron, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



### Sen's Slope Estimator

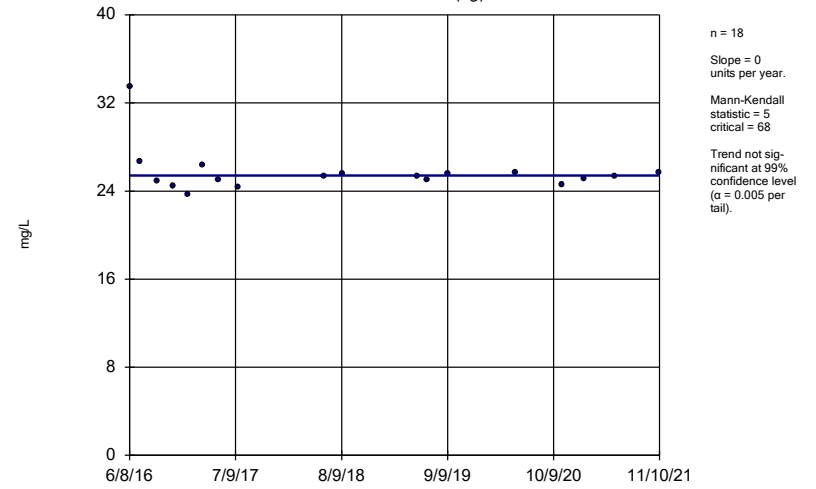
MW-1600D (bg)



Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

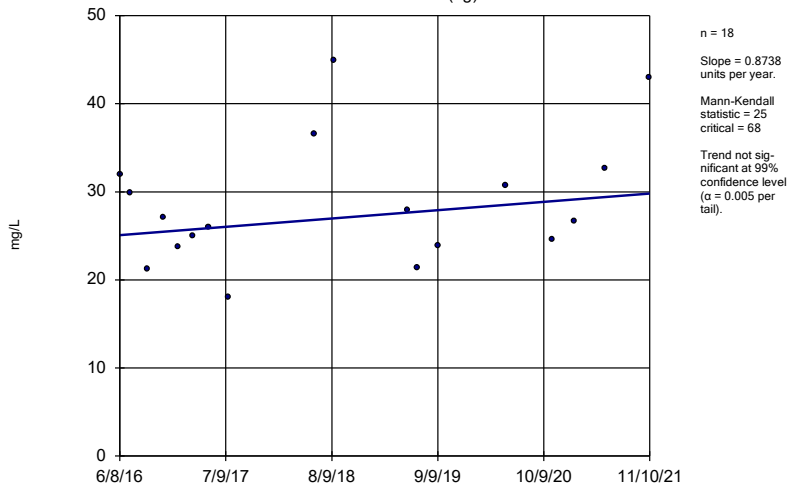
MW-1600I (bg)



Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

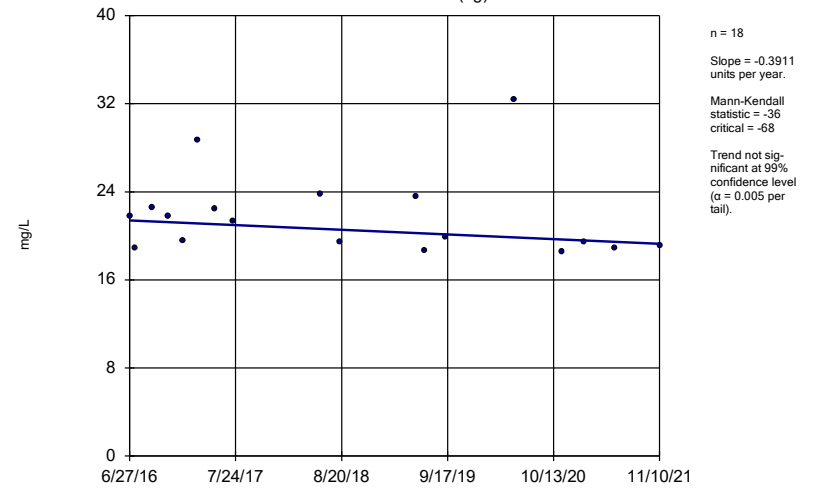
MW-1600S (bg)



Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

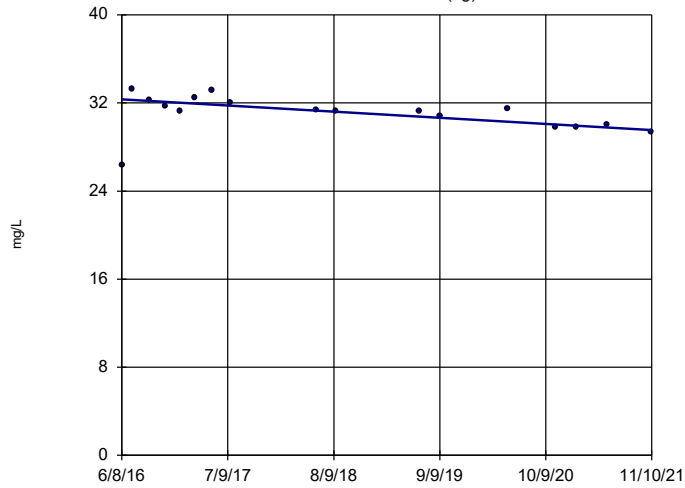
MW-1601D (bg)



Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-16011 (bg)

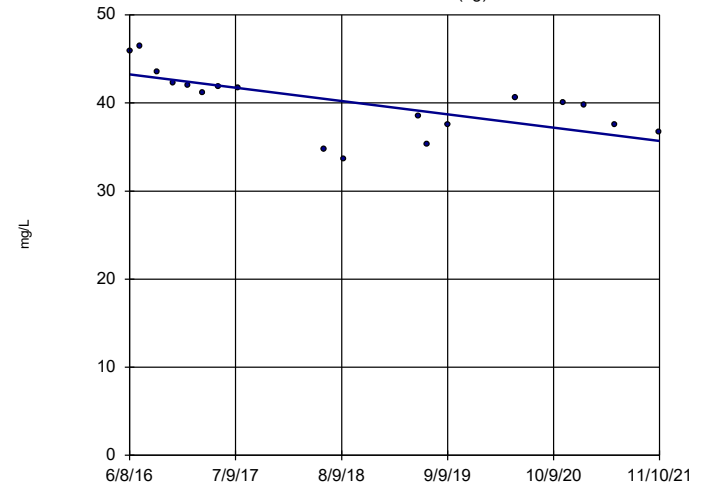


n = 17  
 Slope = -0.5096  
 units per year.  
 Mann-Kendall  
 statistic = -68  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1601S (bg)

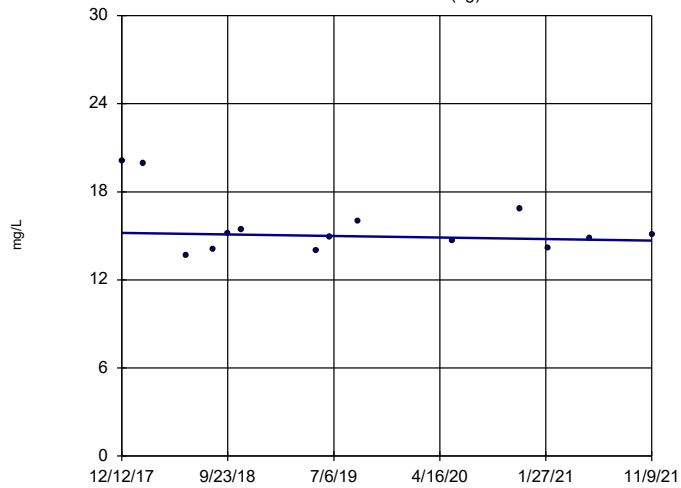


n = 18  
 Slope = -1.395  
 units per year.  
 Mann-Kendall  
 statistic = -90  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1701D (bg)

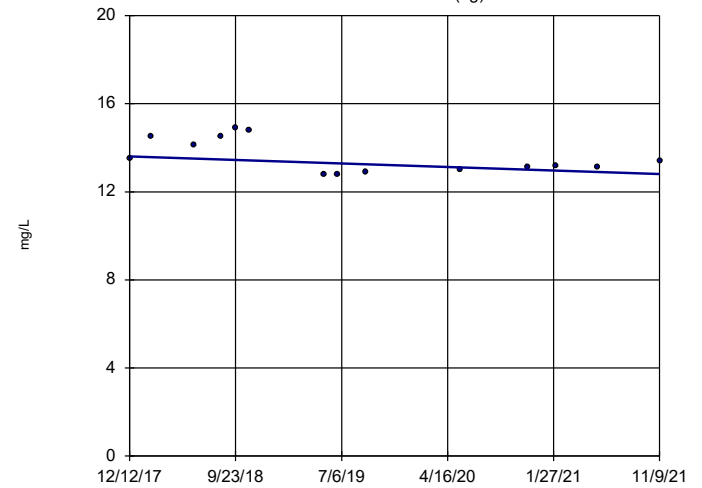


n = 14  
 Slope = -0.1308  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-17011 (bg)

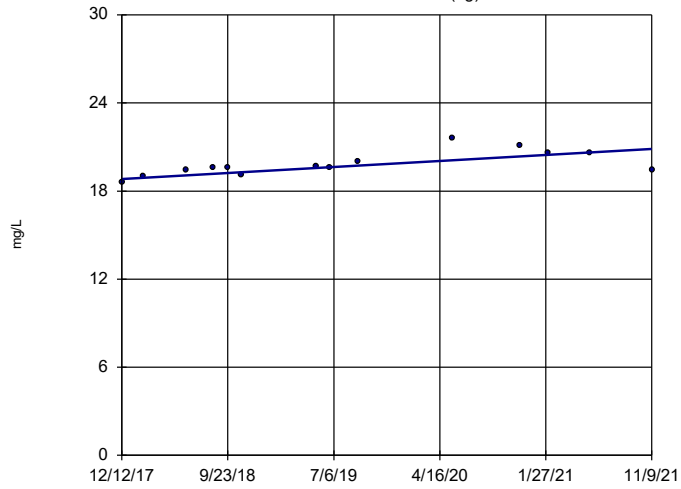


n = 14  
 Slope = -0.2048  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1701S (bg)

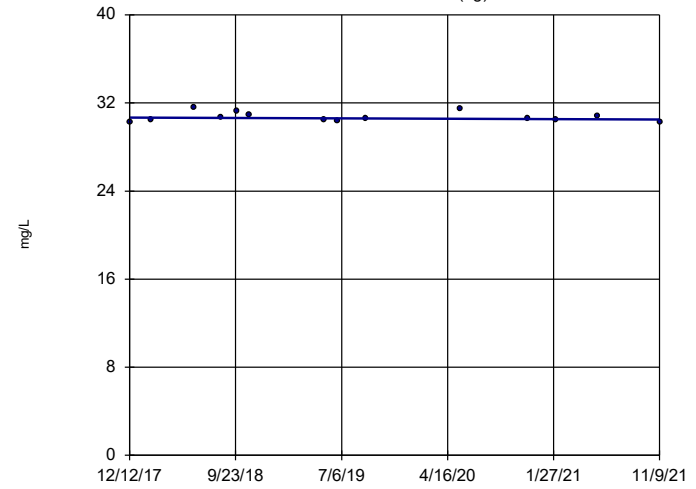


n = 14  
 Slope = 0.5207  
 units per year.  
 Mann-Kendall  
 statistic = 50  
 critical = 48  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702D (bg)

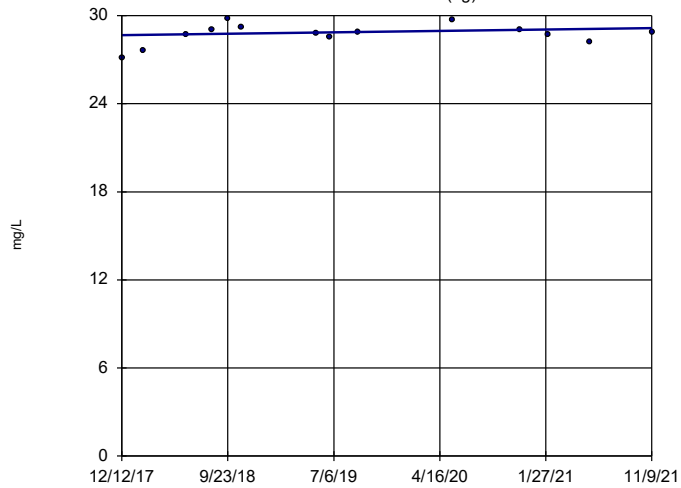


n = 14  
 Slope = -0.0421  
 units per year.  
 Mann-Kendall  
 statistic = -8  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702I (bg)

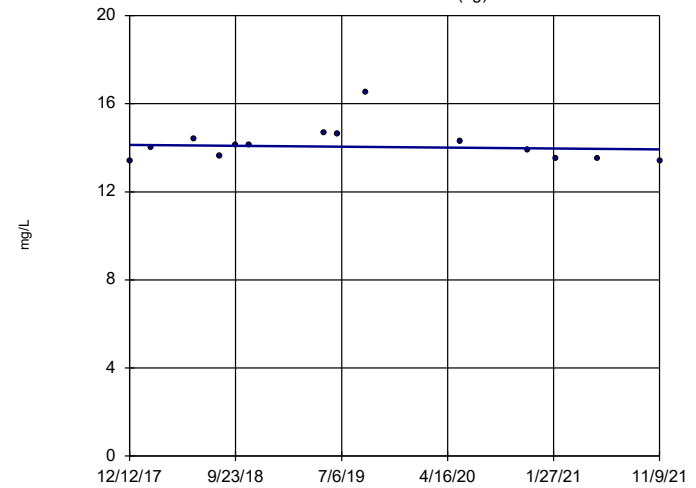


n = 14  
 Slope = 0.1221  
 units per year.  
 Mann-Kendall  
 statistic = 12  
 critical = 48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702S (bg)

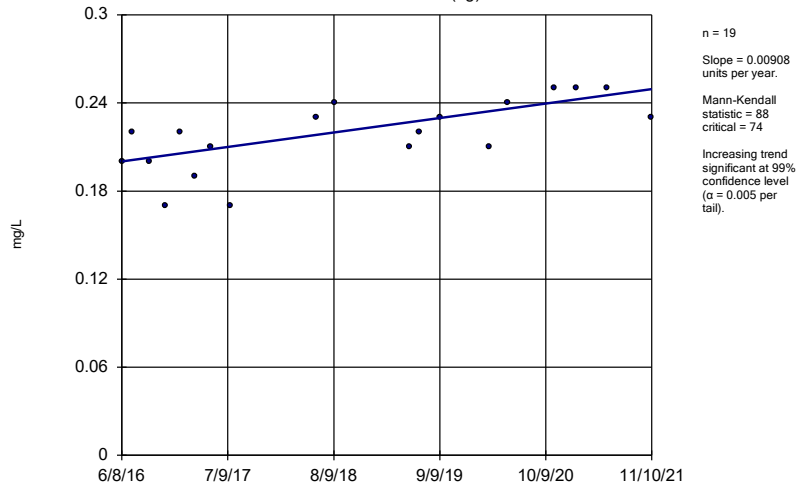


n = 14  
 Slope = -0.05091  
 units per year.  
 Mann-Kendall  
 statistic = -10  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

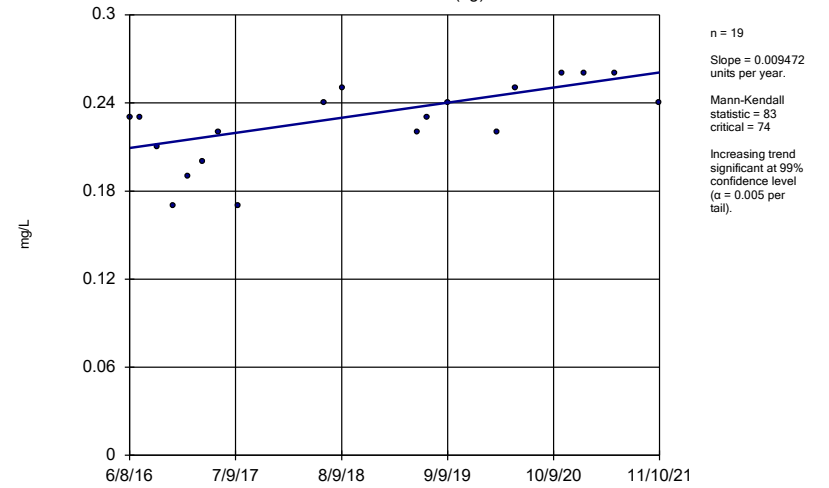
MW-1600D (bg)



Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

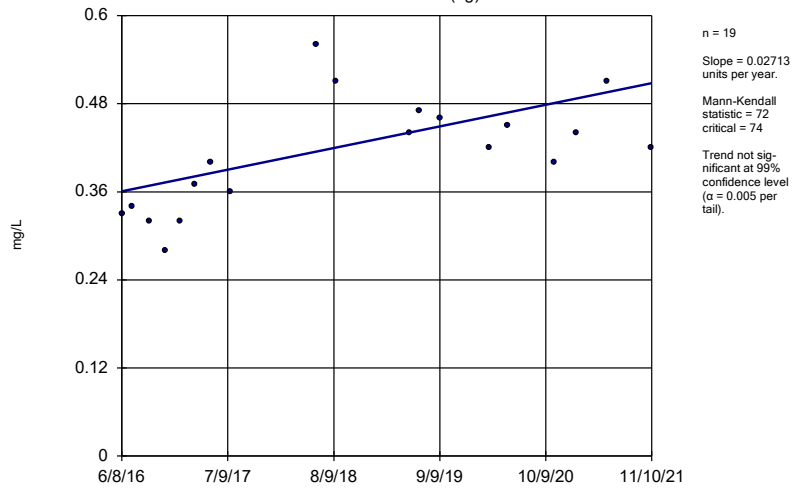
MW-1600I (bg)



Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

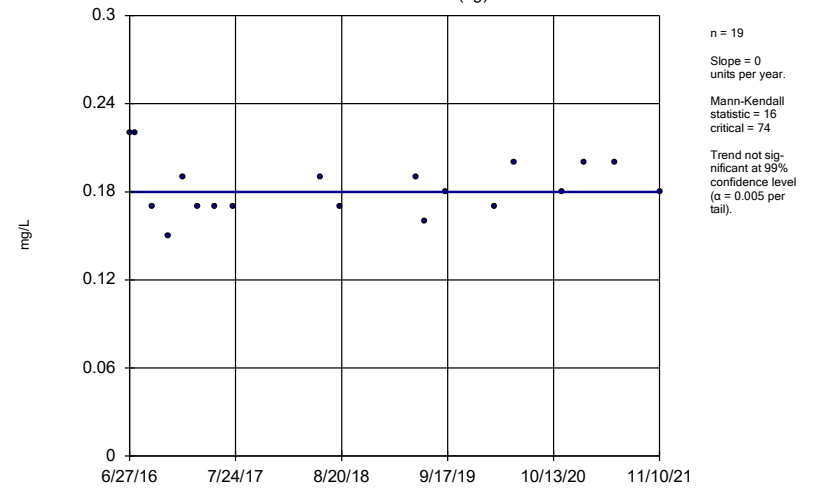
MW-1600S (bg)



Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

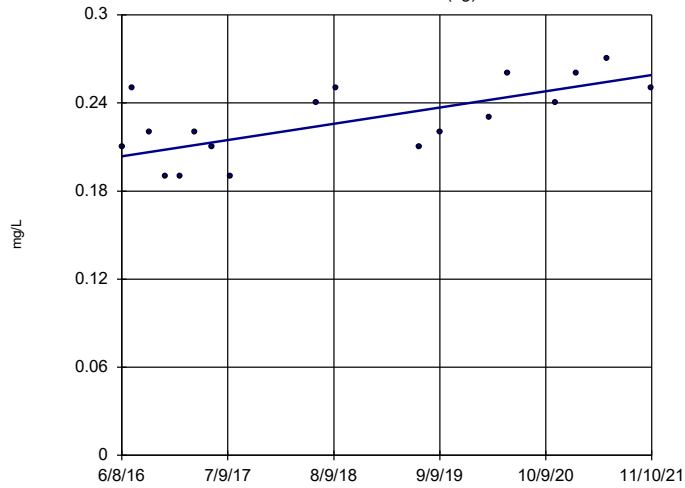
MW-1601D (bg)



Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-16011 (bg)

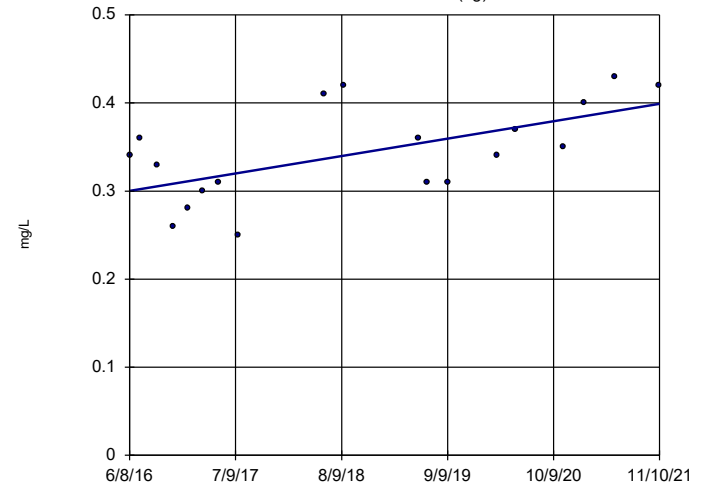


n = 18  
 Slope = 0.0102 units per year.  
 Mann-Kendall statistic = 71  
 critical = 68  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1601S (bg)

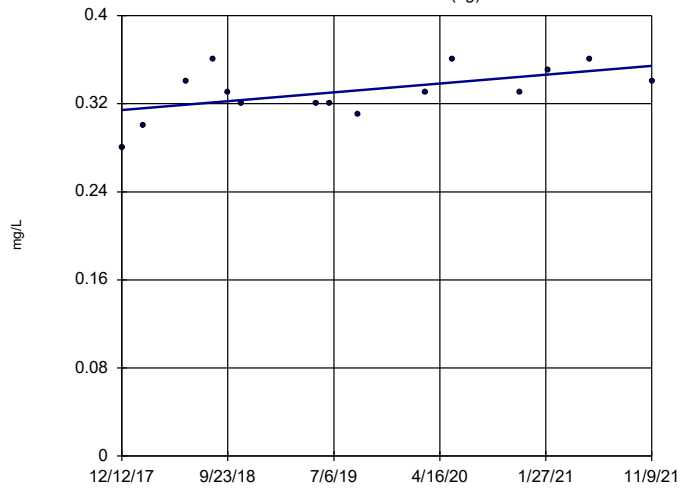


n = 19  
 Slope = 0.01817 units per year.  
 Mann-Kendall statistic = 67  
 critical = 74  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1701D (bg)

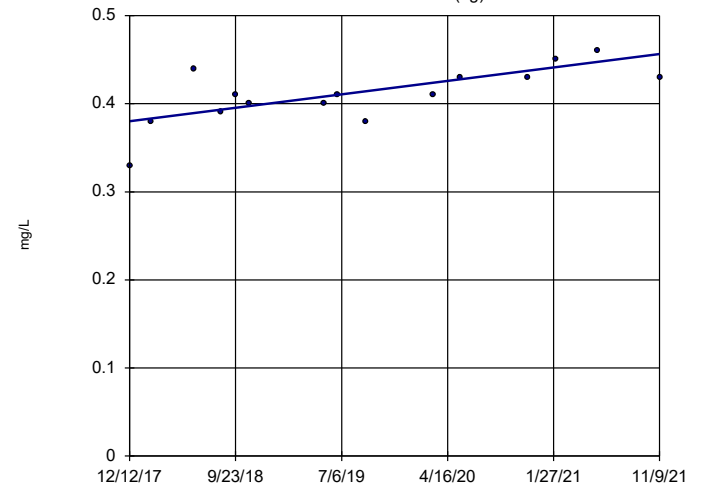


n = 15  
 Slope = 0.01022 units per year.  
 Mann-Kendall statistic = 39  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-17011 (bg)

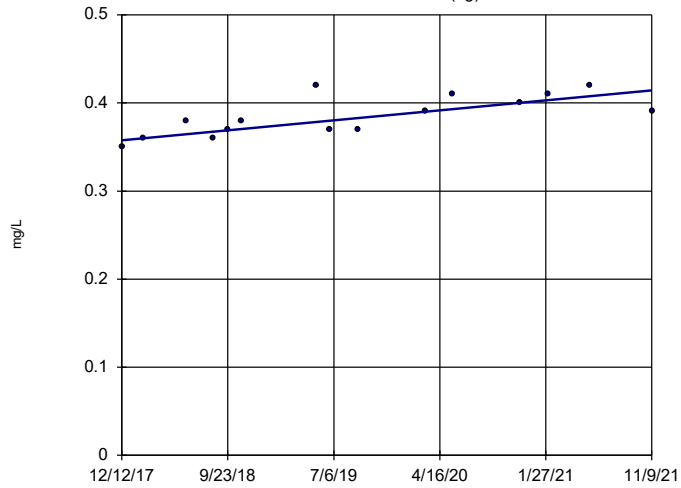


n = 15  
 Slope = 0.01952 units per year.  
 Mann-Kendall statistic = 59  
 critical = 53  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1701S (bg)

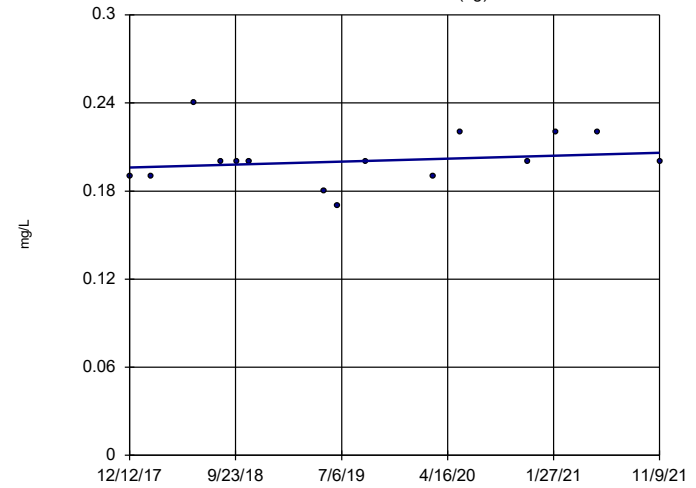


n = 15  
 Slope = 0.01448 units per year.  
 Mann-Kendall statistic = 61  
 critical = 53  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702D (bg)

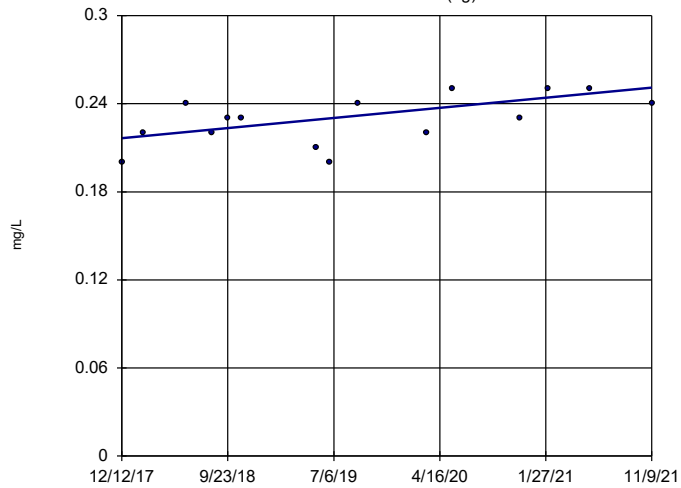


n = 15  
 Slope = 0.002556 units per year.  
 Mann-Kendall statistic = 22  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702I (bg)

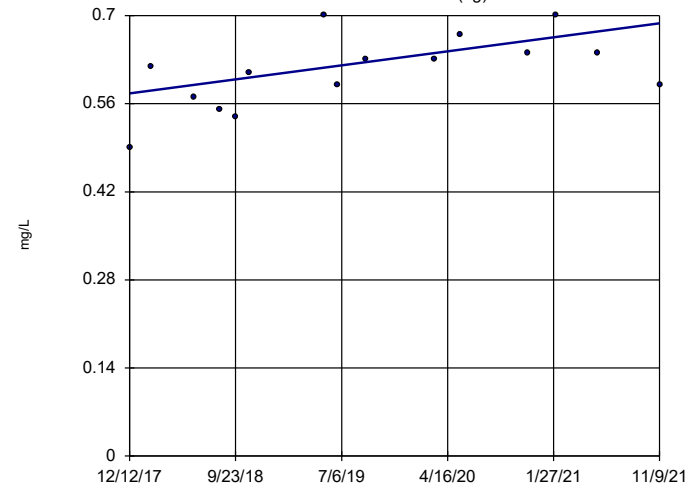


n = 15  
 Slope = 0.008838 units per year.  
 Mann-Kendall statistic = 44  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702S (bg)

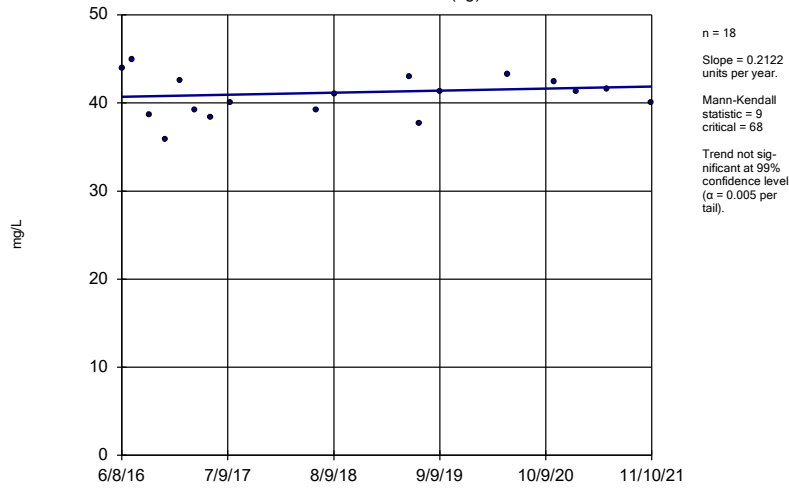


n = 15  
 Slope = 0.02848 units per year.  
 Mann-Kendall statistic = 47  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

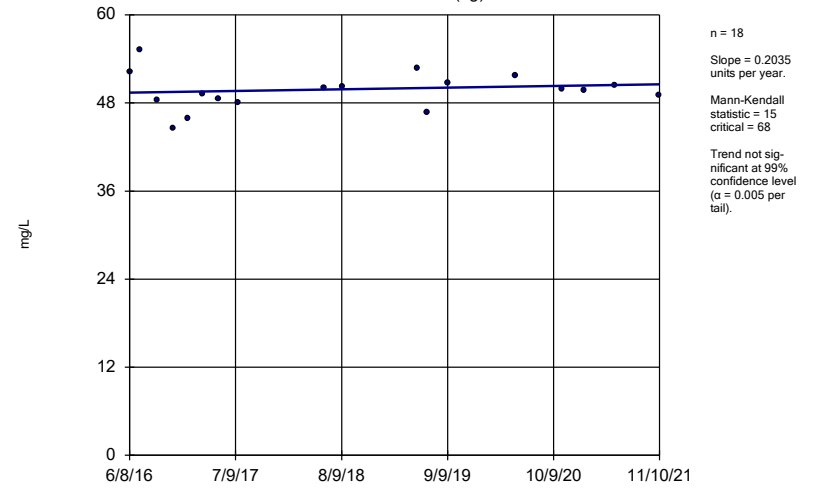
MW-1600D (bg)



Constituent: Sulfate, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

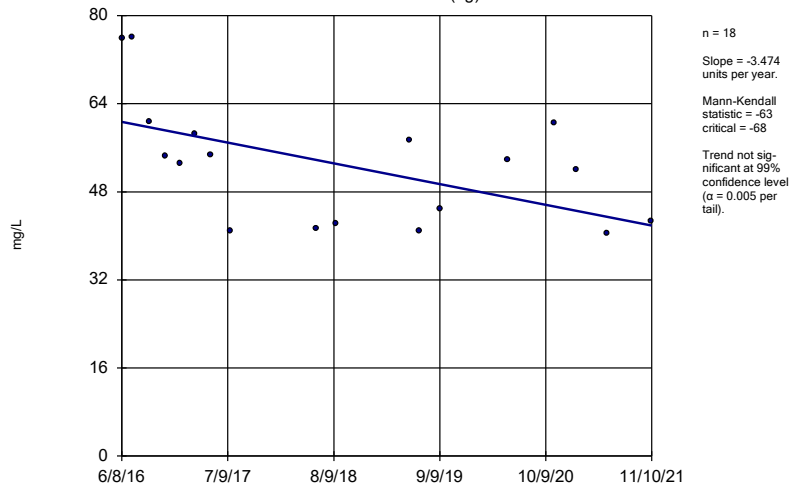
MW-1600I (bg)



Constituent: Sulfate, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

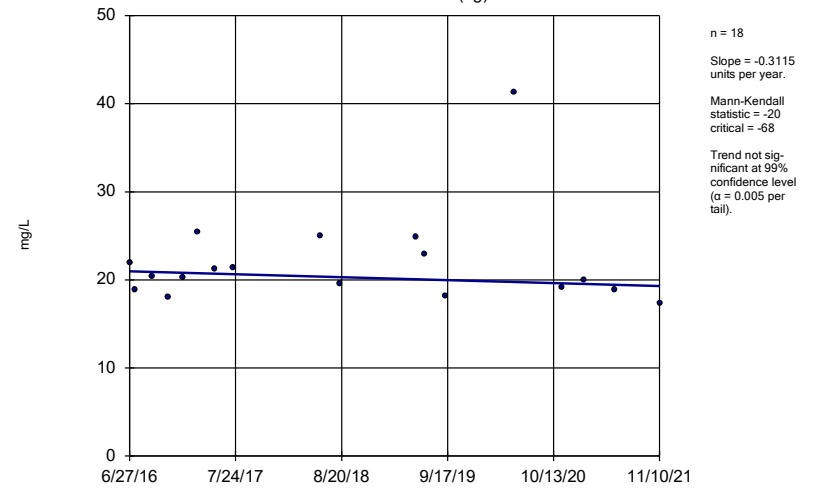
MW-1600S (bg)



Constituent: Sulfate, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

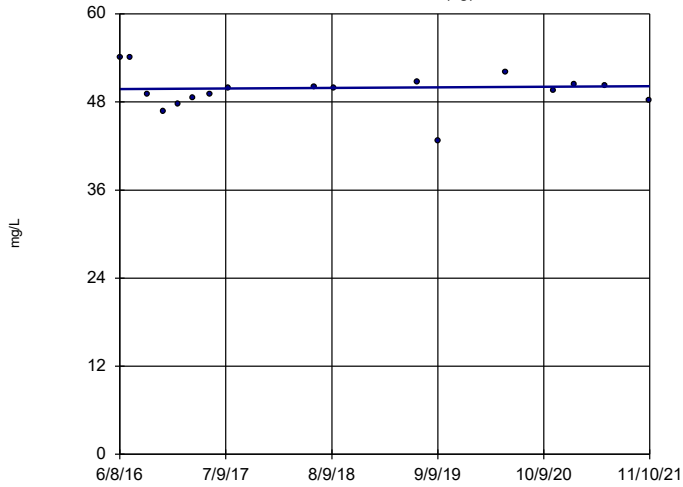
MW-1601D (bg)



Constituent: Sulfate, total Analysis Run 1/14/2022 2:55 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-16011 (bg)

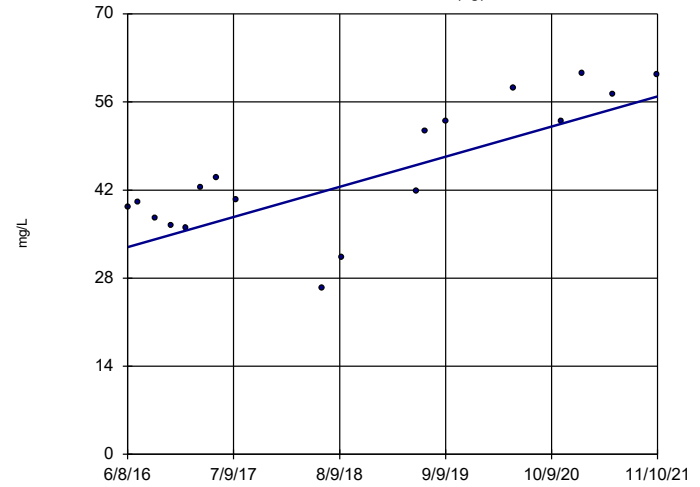


n = 17  
 Slope = 0.07247  
 units per year.  
 Mann-Kendall  
 statistic = 5  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1601S (bg)

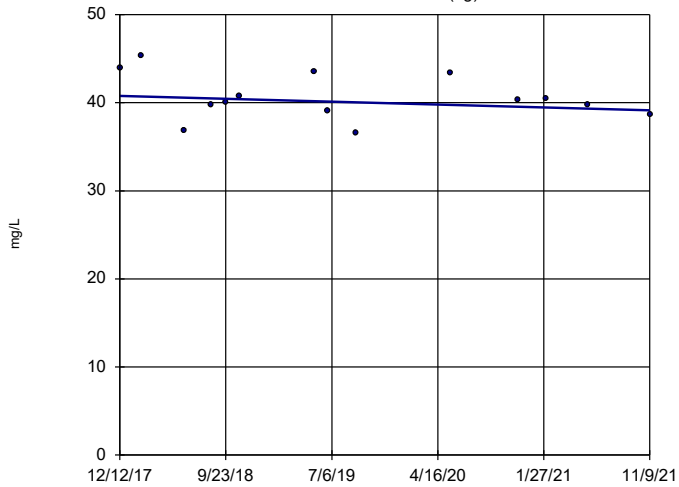


n = 18  
 Slope = 4.414  
 units per year.  
 Mann-Kendall  
 statistic = 87  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1701D (bg)

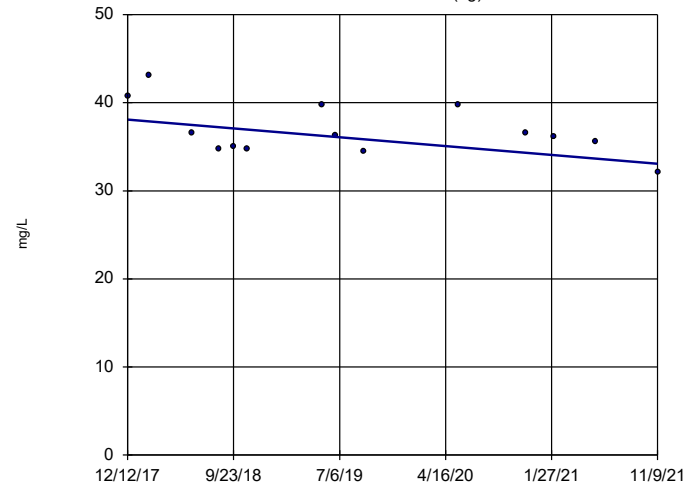


n = 14  
 Slope = -0.4155  
 units per year.  
 Mann-Kendall  
 statistic = -22  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-17011 (bg)



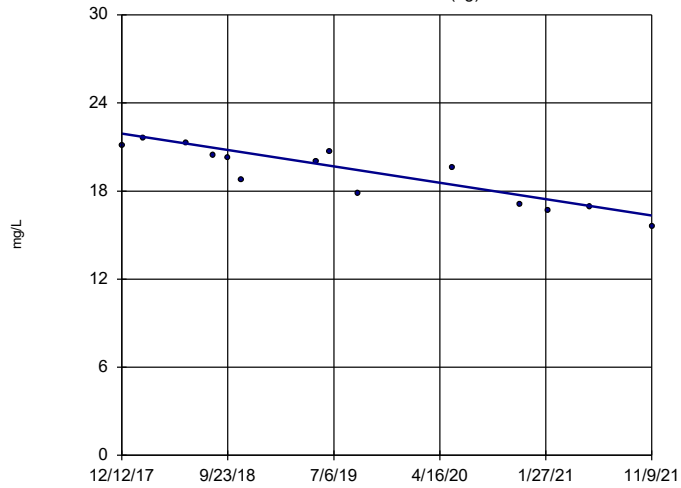
n = 14  
 Slope = -1.282  
 units per year.  
 Mann-Kendall  
 statistic = -32  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP



### Sen's Slope Estimator

MW-1701S (bg)

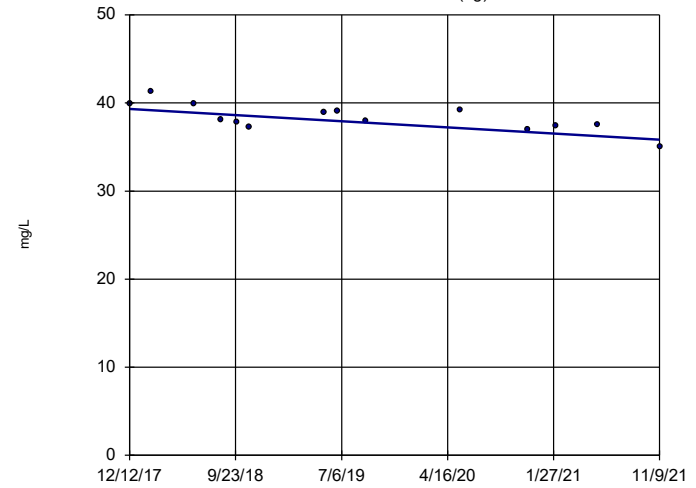


n = 14  
 Slope = -1.426  
 units per year.  
 Mann-Kendall  
 statistic = -71  
 critical = -48  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702D (bg)

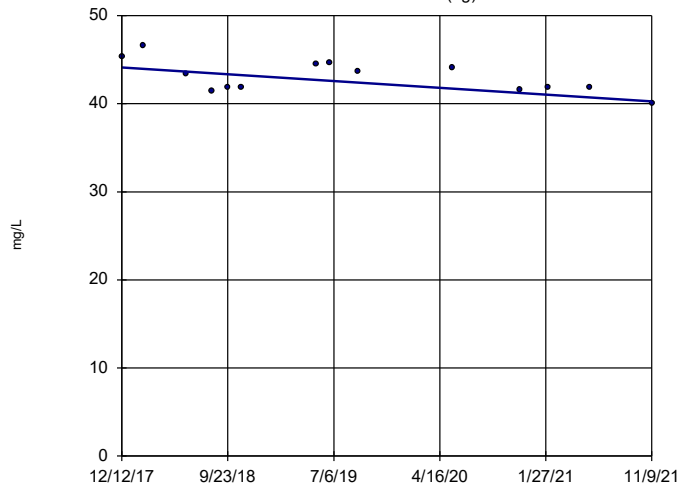


n = 14  
 Slope = -0.8965  
 units per year.  
 Mann-Kendall  
 statistic = -48  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702I (bg)

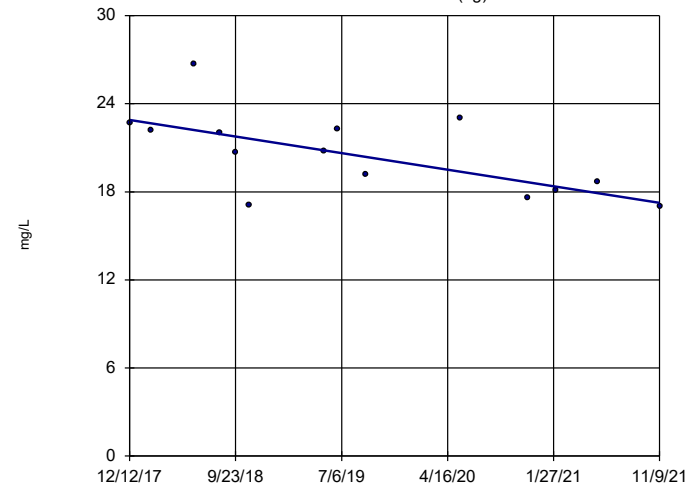


n = 14  
 Slope = -0.9896  
 units per year.  
 Mann-Kendall  
 statistic = -37  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702S (bg)

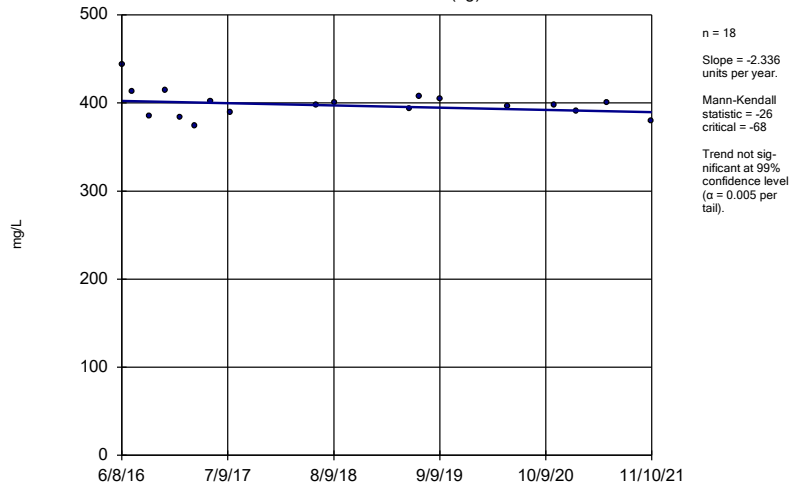


n = 14  
 Slope = -1.444  
 units per year.  
 Mann-Kendall  
 statistic = -43  
 critical = -48  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate, total Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

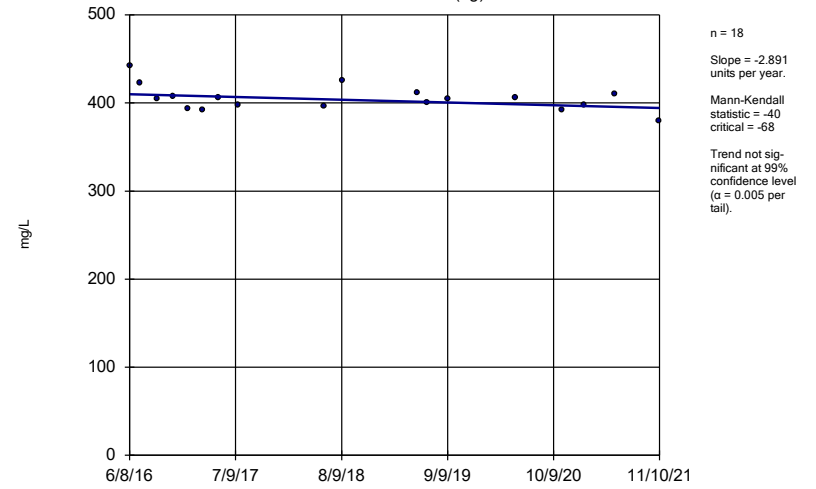
MW-1600D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

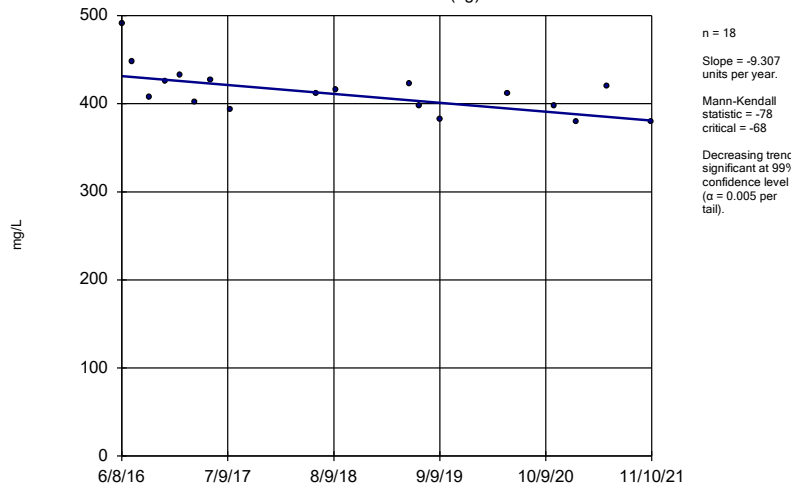
MW-1600I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

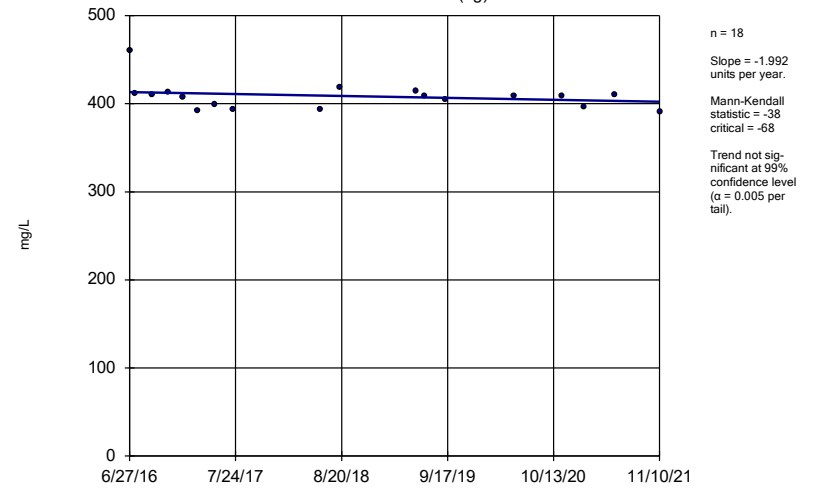
MW-1600S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

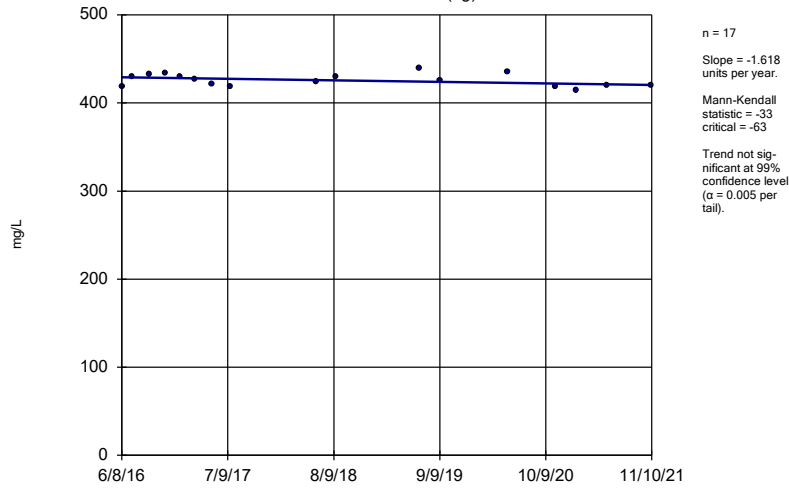
MW-1601D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

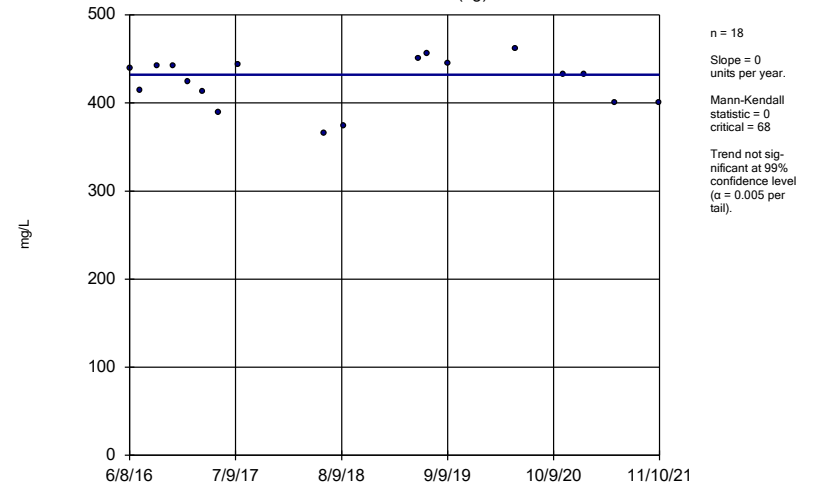
MW-16011 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

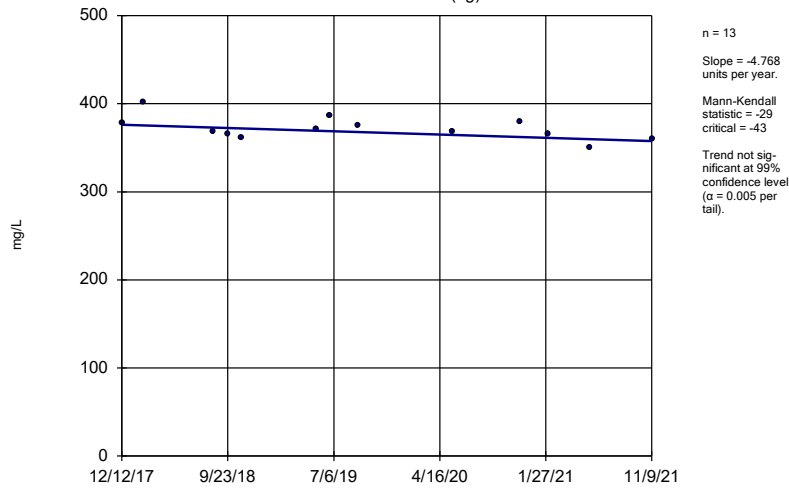
MW-1601S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

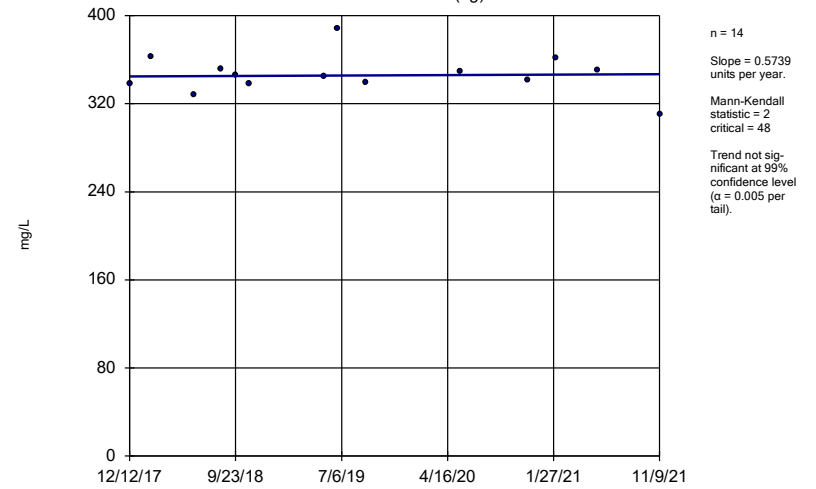
MW-1701D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

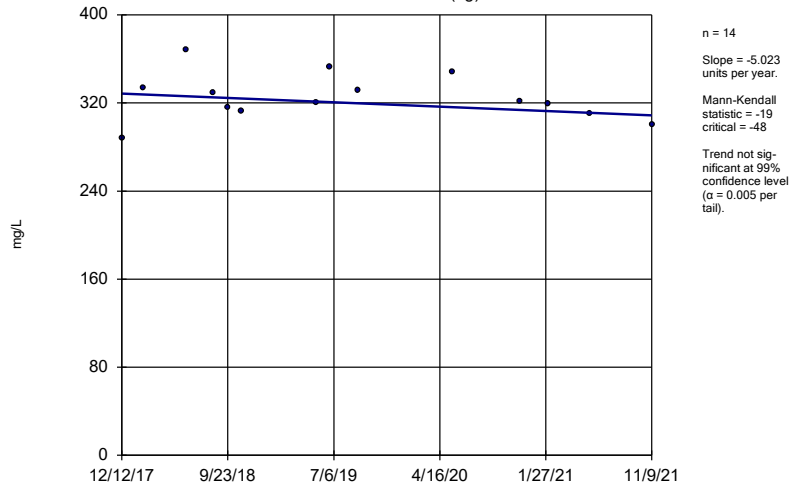
MW-17011 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

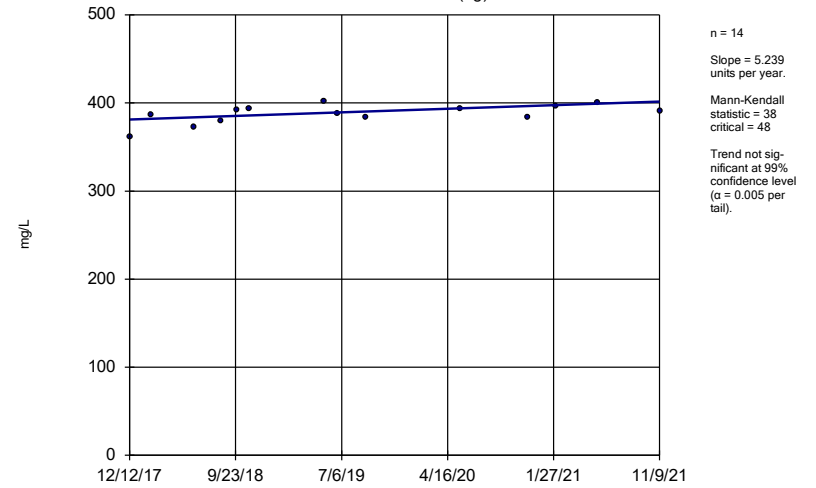
MW-1701S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

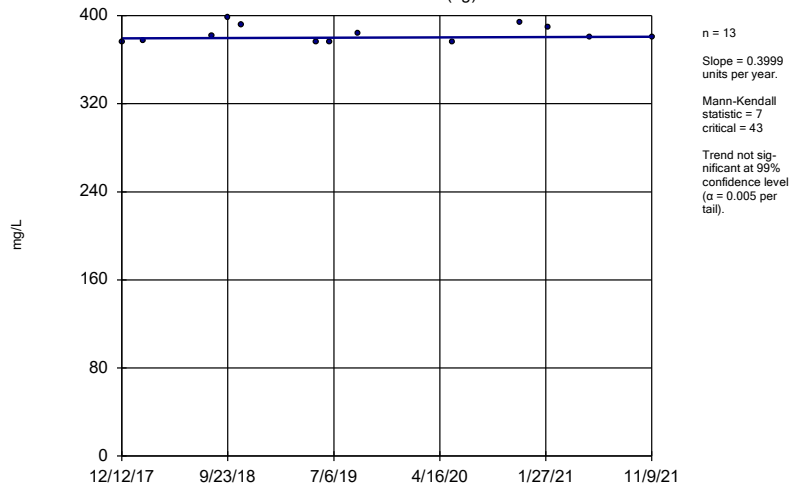
MW-1702D (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

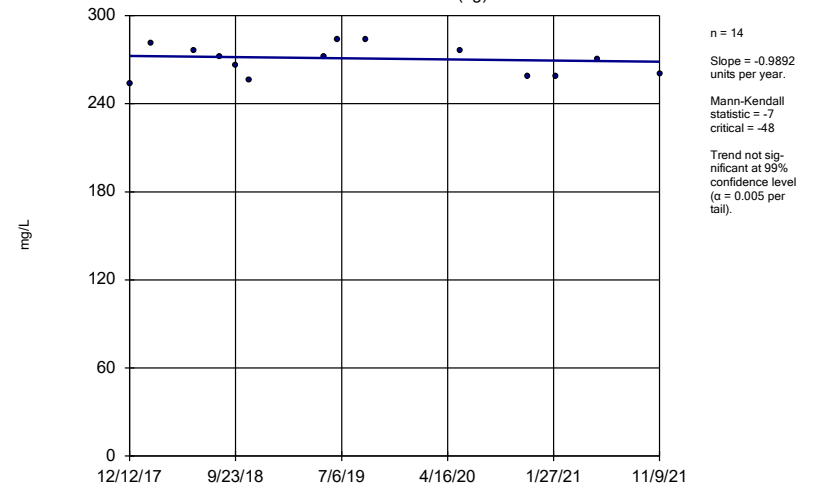
MW-1702I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Sen's Slope Estimator

MW-1702S (bg)



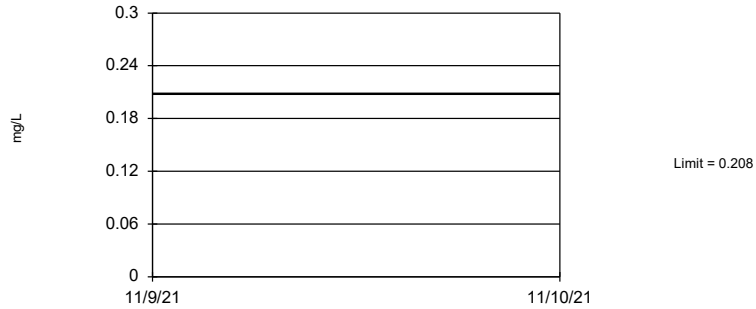
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 2:56 PM View: Interwell  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

# Interwell Prediction Limits - All Results

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/14/2022, 3:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	n/a	0.208	n/a	n/a	15 future	n/a	191	n/a	n/a	12.57	n/a	n/a	0.00005421	NP Inter (normality) 1 of 2
Chloride, total (mg/L)	n/a	46.4	n/a	n/a	15 future	n/a	191	n/a	n/a	0	n/a	n/a	0.00005421	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	n/a	0.7	n/a	n/a	15 future	n/a	203	n/a	n/a	0	n/a	n/a	0.0000491	NP Inter (normality) 1 of 2
Sulfate, total (mg/L)	n/a	76	n/a	n/a	15 future	n/a	191	n/a	n/a	0	n/a	n/a	0.00005421	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	n/a	454.2	n/a	n/a	15 future	n/a	189	2.3e10	9.4e9	0	None	x^4	0.0005016	Param Inter 1 of 2

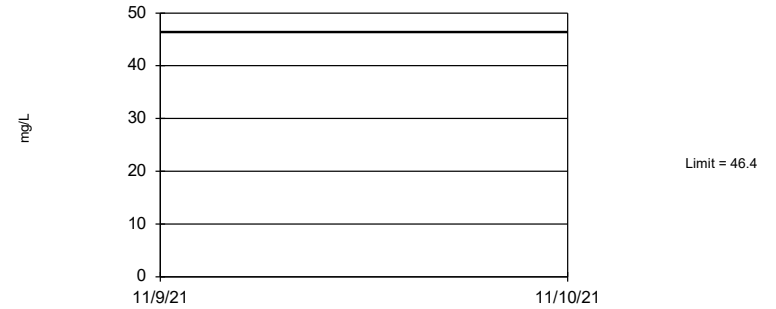
Prediction Limit  
Interwell Non-parametric



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 191 background values. 12.57% NDs. Annual per-constituent alpha = 0.001625. Individual comparison alpha = 0.00005421 (1 of 2). Assumes 15 future values.

Constituent: Boron, total Analysis Run 1/14/2022 3:26 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

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 191 background values. Annual per-constituent alpha = 0.001625. Individual comparison alpha = 0.00005421 (1 of 2). Assumes 15 future values.

Constituent: Chloride, total Analysis Run 1/14/2022 3:26 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

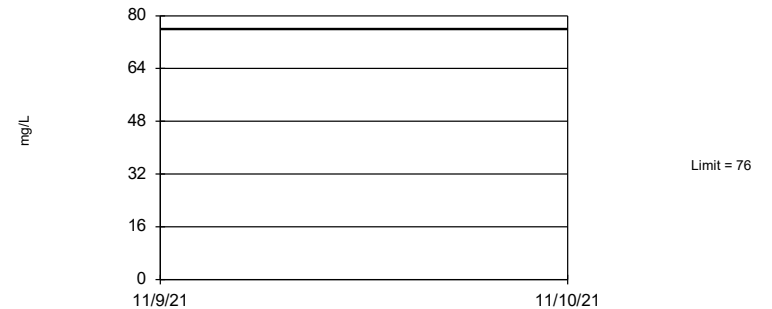
Prediction Limit  
Interwell Non-parametric



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 203 background values. Annual per-constituent alpha = 0.001472. Individual comparison alpha = 0.0000491 (1 of 2). Assumes 15 future values.

Constituent: Fluoride, total Analysis Run 1/14/2022 3:26 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

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 191 background values. Annual per-constituent alpha = 0.001625. Individual comparison alpha = 0.00005421 (1 of 2). Assumes 15 future values.

Constituent: Sulfate, total Analysis Run 1/14/2022 3:26 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Prediction Limit Interwell Parametric



Background Data Summary (based on  $x^4$  transformation): Mean= $2.3e10$ , Std. Dev.= $9.4e9$ ,  $n=189$ . Normality test: Chi Squared @ $\alpha = 0.01$ , calculated = 12.22, critical = 14.07. Kappa = 2.038 ( $c=7$ ,  $w=15$ , 1 of 2, event  $\alpha = 0.05132$ ). N exceeds UG tables; Kappa based on  $n=150$ . Report  $\alpha = 0.007498$ . Individual comparison  $\alpha = 0.0005016$ . Assumes 15 future values.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/14/2022 3:26 PM View: Interwell  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

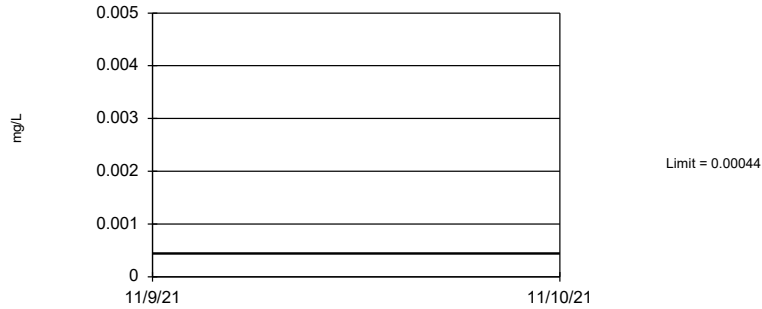
# Upper Tolerance Limits - Summary Table

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 4:21 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</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>
Antimony, total (mg/L)	n/a	0.00044	n/a	n/a	n/a	203	n/a	n/a	30.05	n/a	n/a	NaN	NP Inter(normality)
Arsenic, total (mg/L)	n/a	0.0727	n/a	n/a	n/a	203	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Barium, total (mg/L)	n/a	0.997	n/a	n/a	n/a	203	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium, total (mg/L)	n/a	0.000106	n/a	n/a	n/a	203	n/a	n/a	79.8	n/a	n/a	NaN	NP Inter(NDs)
Cadmium, total (mg/L)	n/a	0.00028	n/a	n/a	n/a	203	n/a	n/a	38.92	n/a	n/a	NaN	NP Inter(normality)
Chromium, total (mg/L)	n/a	0.00205	n/a	n/a	n/a	202	n/a	n/a	1.98	n/a	n/a	NaN	NP Inter(normality)
Cobalt, total (mg/L)	n/a	0.00334	n/a	n/a	n/a	202	n/a	n/a	0.9901	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.474	n/a	n/a	n/a	202	1.165	0.7133	0	None	No	0.05	Inter
Fluoride, total (mg/L)	n/a	0.7	n/a	n/a	n/a	203	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Lead, total (mg/L)	n/a	0.00497	n/a	n/a	n/a	203	n/a	n/a	28.57	n/a	n/a	NaN	NP Inter(normality)
Lithium, total (mg/L)	n/a	0.038	n/a	n/a	n/a	203	n/a	n/a	10.84	n/a	n/a	NaN	NP Inter(normality)
Mercury, total (mg/L)	n/a	0.000005	n/a	n/a	n/a	179	n/a	n/a	91.62	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum, total (mg/L)	n/a	0.00867	n/a	n/a	n/a	199	n/a	n/a	0.5025	n/a	n/a	NaN	NP Inter(normality)
Selenium, total (mg/L)	n/a	0.0038	n/a	n/a	n/a	202	n/a	n/a	39.6	n/a	n/a	NaN	NP Inter(normality)
Thallium, total (mg/L)	n/a	0.0002	n/a	n/a	n/a	197	n/a	n/a	64.97	n/a	n/a	NaN	NP Inter(NDs)



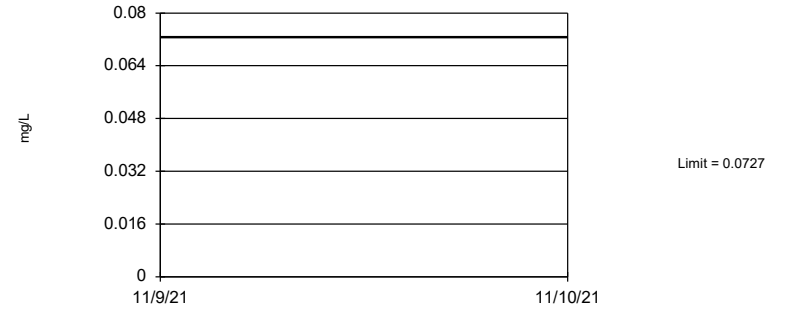
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 30.05% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

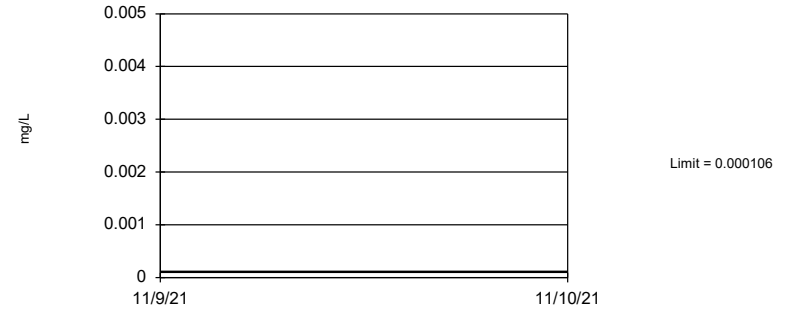
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

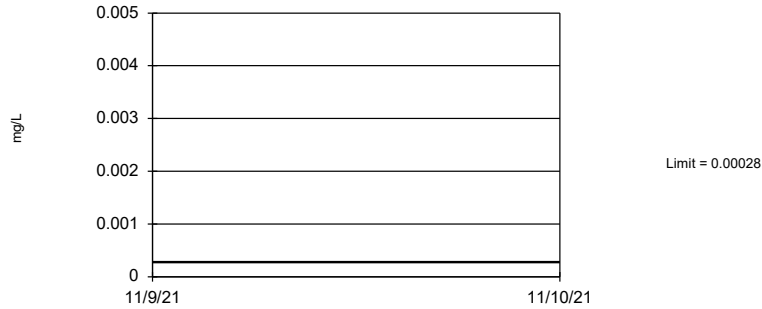
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 203 background values. 79.8% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

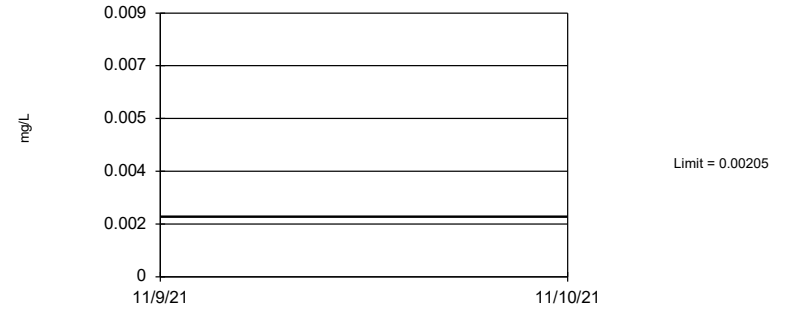
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 38.92% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

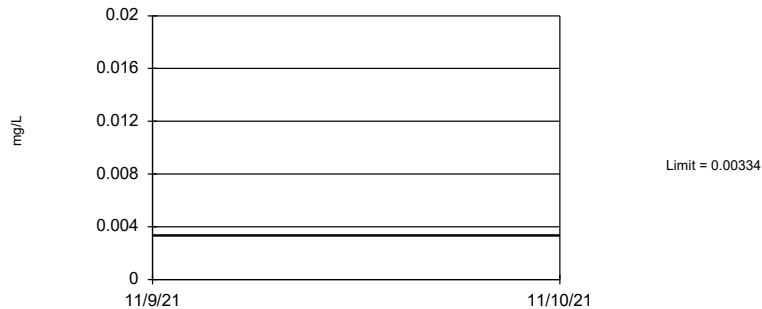
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 202 background values. 1.98% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 202 background values. 0.9901% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tolerance Limit  
Interwell Parametric



95% coverage. Background Data Summary: Mean=1.165, Std. Dev.=0.7133, n=202. Normality test: Chi Squared @alpha = 0.01, calculated = 10.38, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

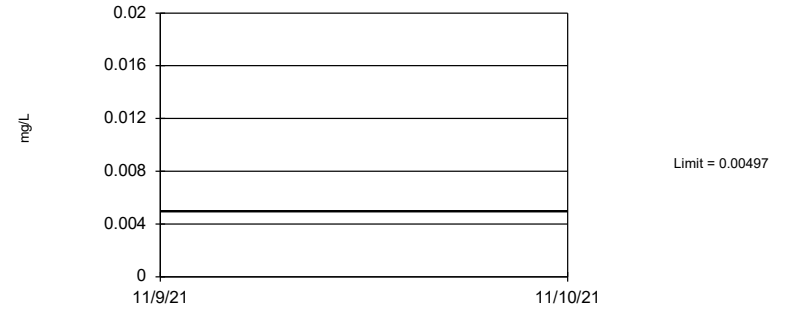
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

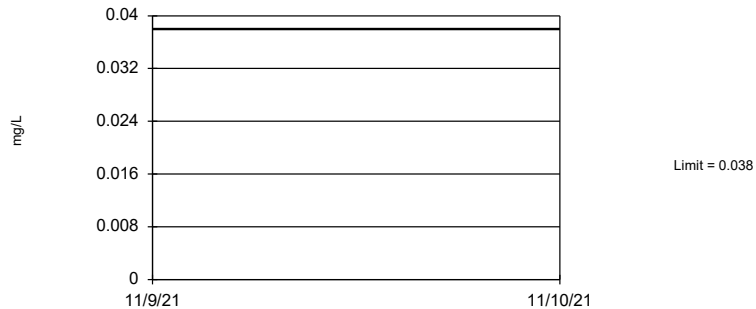
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 28.57% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 10.84% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

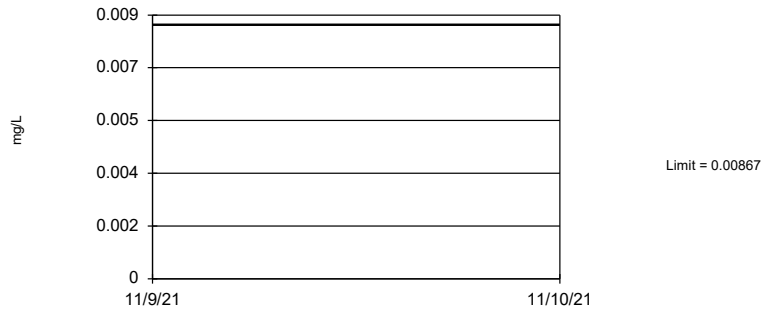
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 179 background values. 91.62% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Mercury, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

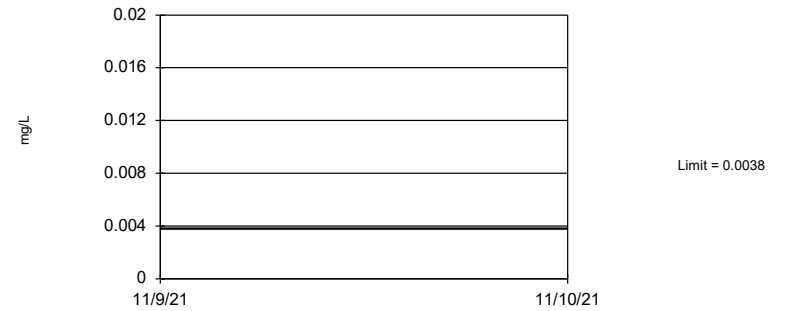
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 199 background values. 0.5025% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

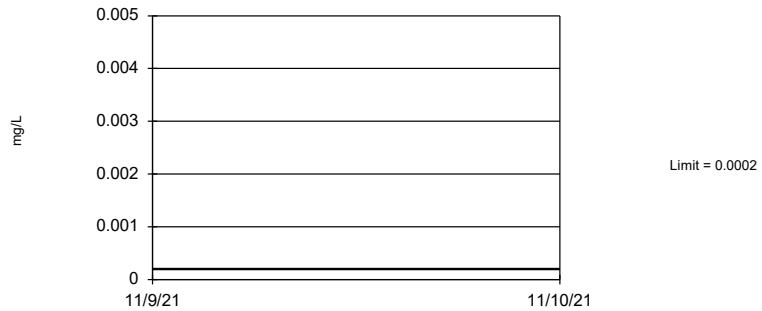
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 202 background values. 39.6% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 197 background values. 64.97% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

<b>ROCKPORT BAP GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.00044	0.006
Arsenic, Total (mg/L)	0.01		0.073	0.073
Barium, Total (mg/L)	2		0.1	2
Beryllium, Total (mg/L)	0.004		0.00011	0.004
Cadmium, Total (mg/L)	0.005		0.00028	0.005
Chromium, Total (mg/L)	0.1		0.0021	0.1
Cobalt, Total (mg/L)		0.006	0.0033	0.006
Combined Radium, Total (pCi/L)	5		2.47	5
Fluoride, Total (mg/L)	4		0.7	4
Lead, Total (mg/L)	0.015		0.005	0.015
Lithium, Total (mg/L)		0.04	0.038	0.04
Mercury, Total (mg/L)	0.002		0.000005	0.002
Molybdenum, Total (mg/L)		0.1	0.0087	0.1
Selenium, Total (mg/L)	0.05		0.0038	0.05
Thallium, Total (mg/L)	0.002		0.0002	0.002

*\*Grey cell indicates background is higher than MCL or CCR Rule Specified Level*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residual*

*\*GWPS = Groundwater Protection Standard*

# Confidence Intervals Summary Table - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 4:26 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	19	0.00005105	0.0000141	5.263	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602D	0.0001	0.00001	0.006	No	19	0.00005737	0.00004852	36.84	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602I	0.00006252	0.00002998	0.006	No	19	0.00005	0.00003333	5.263	None	x^(1/3)	0.01	Param.
Antimony, total (mg/L)	MW-1603D	0.0001	0.00002	0.006	No	19	0.00005842	0.00004045	42.11	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603I	0.0001	0.00003	0.006	No	19	0.00011	0.0002235	5.263	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603S	0.00006	0.00003	0.006	No	19	0.00004684	0.000016	5.263	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604D	0.0001	0.00002	0.006	No	19	0.00005947	0.00004062	47.37	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604I	0.00009	0.00002	0.006	No	19	0.00005263	0.0000598	5.263	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604S	0.00007	0.00005	0.006	No	19	0.00006211	0.00002097	0	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605D	0.0001	0.00001	0.006	No	19	0.00005105	0.00004026	36.84	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605I	0.00006306	0.00003366	0.006	No	19	0.00005368	0.00003515	10.53	None	ln(x)	0.01	Param.
Antimony, total (mg/L)	MW-1605S	0.00006	0.00003	0.006	No	19	0.00005421	0.0000315	0	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606D	0.0001	0.00002	0.006	No	19	0.00006421	0.0000399	52.63	None	No	0.01	NP (NDs)
Antimony, total (mg/L)	MW-1606I	0.0001	0.00002	0.006	No	19	0.00005737	0.00003798	42.11	None	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606S	0.00006616	0.00003852	0.006	No	19	0.00005632	0.00002985	10.53	None	ln(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1002	0.00028	0.00022	0.073	No	19	0.0002542	0.00005511	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1602D	0.009455	0.008519	0.073	No	19	0.008987	0.0007994	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1602I	0.02824	0.02113	0.073	No	19	0.02469	0.006071	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1603D	0.01323	0.01158	0.073	No	19	0.01241	0.001407	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1603I	0.0151	0.0124	0.073	No	19	0.02604	0.04786	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1603S	0.0002376	0.000165	0.073	No	19	0.0002042	0.00006602	0	None	sqrt(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1604D	0.0184	0.0167	0.073	No	19	0.01779	0.001454	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604I	0.0244	0.0187	0.073	No	19	0.02257	0.008714	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604S	0.00031	0.00018	0.073	No	19	0.0002689	0.0001441	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605D	0.02023	0.01812	0.073	No	19	0.01912	0.001888	0	None	x^2	0.01	Param.
Arsenic, total (mg/L)	MW-1605I	0.0257	0.0178	0.073	No	19	0.02237	0.008399	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605S	0.00061	0.00042	0.073	No	19	0.0007463	0.0007231	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1606D	0.0179	0.0137	0.073	No	19	0.01583	0.002114	0	None	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1606I	0.008807	0.005606	0.073	No	19	0.007206	0.002733	0	None	No	0.01	Param.
Arsenic, total (mg/L)	MW-1606S	0.00029	0.00018	0.073	No	19	0.0002437	0.0001093	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1002	0.0235	0.0127	2	No	19	0.01791	0.006292	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1602D	0.4765	0.4211	2	No	19	0.4488	0.04729	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1602I	0.1298	0.1156	2	No	19	0.1227	0.01206	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1603D	0.1183	0.1109	2	No	19	0.1146	0.006274	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1603I	0.0942	0.0811	2	No	19	0.08955	0.01558	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1603S	0.01545	0.01071	2	No	19	0.01308	0.004053	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604D	0.2561	0.2378	2	No	19	0.2469	0.01563	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604I	0.1249	0.105	2	No	19	0.1149	0.01697	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1604S	0.0192	0.0117	2	No	19	0.01697	0.007909	0	None	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1605D	0.4566	0.4169	2	No	19	0.4368	0.03392	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1605I	0.1582	0.1387	2	No	19	0.1485	0.01667	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1605S	0.009934	0.007365	2	No	19	0.008767	0.002392	0	None	x^(1/3)	0.01	Param.
Barium, total (mg/L)	MW-1606D	0.4517	0.3951	2	No	19	0.4234	0.04834	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1606I	0.06709	0.05394	2	No	19	0.06052	0.01124	0	None	No	0.01	Param.
Barium, total (mg/L)	MW-1606S	0.01364	0.01113	2	No	19	0.01239	0.002141	0	None	No	0.01	Param.
Beryllium, total (mg/L)	MW-1002	0.00005	0.00002	0.004	No	19	0.00004368	0.00001526	84.21	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602D	0.00005	0.00001	0.004	No	19	0.00003784	0.00001873	63.16	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602I	0.00005	0.000009	0.004	No	19	0.00003716	0.00001964	68.42	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603D	0.00005	0.000049	0.004	No	19	0.00004621	0.00001133	84.21	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603I	0.000077	0.00003	0.004	No	19	0.00004668	0.00001378	78.95	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603S	0.00005	0.00002	0.004	No	19	0.000042	0.00001607	78.95	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604D	0.00005	0.00002	0.004	No	19	0.000046	0.00001227	89.47	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604I	0.00005	0.000025	0.004	No	19	0.00004468	0.00001313	84.21	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604S	0.000059	0.00002	0.004	No	19	0.00004426	0.00001533	78.95	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605D	0.00005	0.00002	0.004	No	19	0.00004632	0.00001116	89.47	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605I	0.00005	0.00002	0.004	No	19	0.00004358	0.00001554	84.21	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605S	0.00005	0.00004	0.004	No	19	0.00004337	0.0000135	73.68	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606D	0.00005	0.00002	0.004	No	19	0.00003916	0.00001744	68.42	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606I	0.00005	0.00002	0.004	No	19	0.00004616	0.00001171	89.47	None	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606S	0.00005	0.00002	0.004	No	19	0.00003805	0.00001857	68.42	None	No	0.01	NP (NDs)

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

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 4:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium, total (mg/L)	MW-1002	0.00004	0.00002	0.005	No	19	0.00003679	0.00003023	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1602D	0.00002	0.00001	0.005	No	19	0.00002253	0.00001234	68.42	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1602I	0.00002	0.000007	0.005	No	19	0.00001632	0.000007165	57.89	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603D	0.00002	0.00001	0.005	No	19	0.00001874	0.000005054	73.68	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603I	0.00002	0.00001	0.005	No	19	0.00001721	0.000005643	68.42	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603S	0.00003	0.00002	0.005	No	19	0.00002247	0.00001134	5.263	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1604D	0.00002	0.000008	0.005	No	19	0.00001868	0.000003945	84.21	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1604I	0.00002	0.000009	0.005	No	19	0.00002311	0.00002402	73.68	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1604S	0.00003	0.000018	0.005	No	19	0.00002521	0.00001685	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1605D	0.00002	0.000006	0.005	No	19	0.00001853	0.000004414	84.21	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605I	0.00002	0.000008	0.005	No	19	0.00001811	0.000005021	73.68	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605S	0.000041	0.00003	0.005	No	19	0.00004205	0.00001904	0	None	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1606D	0.00002	0.000007	0.005	No	19	0.00001932	0.000002982	84.21	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606I	0.00002	0.00001	0.005	No	19	0.00001784	0.000005231	73.68	None	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606S	0.00003793	0.00002308	0.005	No	19	0.00003132	0.0000133	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1002	0.000257	0.00009615	0.1	No	19	0.0001937	0.0001674	5.263	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1602D	0.0004225	0.0001757	0.1	No	19	0.0003337	0.000286	0	None	x^(1/3)	0.01	Param.
Chromium, total (mg/L)	MW-1602I	0.0002702	0.0001435	0.1	No	19	0.0002156	0.0001155	5.263	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1603D	0.0002233	0.0001274	0.1	No	18	0.0001753	0.00007923	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1603I	0.0003724	0.0001314	0.1	No	19	0.0003238	0.0003012	0	None	ln(x)	0.01	Param.
Chromium, total (mg/L)	MW-1603S	0.0003051	0.0001341	0.1	No	19	0.0002349	0.0001571	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1604D	0.0001694	0.00008975	0.1	No	19	0.0001296	0.00006802	0	None	No	0.01	Param.
Chromium, total (mg/L)	MW-1604I	0.0002239	0.00009257	0.1	No	19	0.0001921	0.0001628	0	None	ln(x)	0.01	Param.
Chromium, total (mg/L)	MW-1604S	0.0002557	0.0001094	0.1	No	19	0.0002194	0.0001858	0	None	ln(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605D	0.0002692	0.0001289	0.1	No	19	0.0002103	0.0001368	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605I	0.000227	0.0001	0.1	No	19	0.0002016	0.0002501	5.263	None	No	0.01	NP (normality)
Chromium, total (mg/L)	MW-1605S	0.000645	0.0002051	0.1	No	19	0.0004791	0.0004203	0	None	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1606D	0.0002387	0.00009776	0.1	No	19	0.0001885	0.0001593	5.263	None	x^(1/3)	0.01	Param.
Chromium, total (mg/L)	MW-1606I	0.0002129	0.00009716	0.1	No	19	0.0001695	0.0001234	10.53	None	x^(1/3)	0.01	Param.
Chromium, total (mg/L)	MW-1606S	0.0003867	0.0001532	0.1	No	19	0.0003413	0.0003493	5.263	None	ln(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1002	0.0007351	0.0005415	0.006	No	19	0.0006383	0.0001653	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1602D	0.0001862	0.00007728	0.006	No	19	0.00001665	0.0001852	0	None	ln(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1602I	0.001573	0.001325	0.006	No	19	0.001449	0.0002123	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1603D	0.000703	0.000288	0.006	No	19	0.0005856	0.0004676	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603I	0.0014	0.00117	0.006	No	19	0.001391	0.0005243	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603S	0.0004667	0.0002091	0.006	No	19	0.0003379	0.00022	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604D	0.000086	0.00005	0.006	No	19	0.00006537	0.00002249	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1604I	0.0008612	0.0006643	0.006	No	19	0.0007627	0.0001681	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604S	0.000407	0.000285	0.006	No	19	0.0004093	0.0002355	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1605D	0.0001336	0.00007491	0.006	No	19	0.0001136	0.00006579	0	None	ln(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1605I	0.001525	0.001285	0.006	No	19	0.001405	0.0002053	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1605S	0.000856	0.000336	0.006	No	19	0.0007858	0.0009728	0	None	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1606D	0.0000997	0.00006228	0.006	No	18	0.00008272	0.00003339	0	None	sqrt(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1606I	0.001414	0.001007	0.006	No	19	0.001211	0.0003477	0	None	No	0.01	Param.
Cobalt, total (mg/L)	MW-1606S	0.000338	0.00005	0.006	No	19	0.0001587	0.000207	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-1002	1.347	0.4635	5	No	19	1.007	0.8779	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602D	1.793	0.9392	5	No	19	1.453	0.8907	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602I	1.327	0.8681	5	No	19	1.098	0.3923	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603D	1.425	0.778	5	No	19	1.144	0.6008	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603I	1.704	1.022	5	No	19	1.363	0.5829	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603S	1.024	0.4362	5	No	19	0.8114	0.6747	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604D	1.336	0.7386	5	No	19	1.037	0.5098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604I	1.402	0.852	5	No	19	1.127	0.4696	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604S	1.052	0.4248	5	No	19	0.7999	0.6178	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605D	1.508	0.9594	5	No	19	1.234	0.4687	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605I	1.988	1.457	5	No	19	1.722	0.4538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605S	1.049	0.3131	5	No	19	0.7761	0.6896	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606D	1.324	0.7075	5	No	19	1.016	0.5264	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606I	1.388	0.7624	5	No	19	1.189	0.833	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606S	1.047	0.3999	5	No	19	0.7237	0.553	0	None	No	0.01	Param.

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

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 4:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	MW-1002	1.005	0.8507	4	No	19	0.9279	0.1319	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602D	0.3431	0.3117	4	No	19	0.3274	0.02684	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602I	0.3068	0.2795	4	No	19	0.2932	0.02335	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603D	0.3061	0.2802	4	No	19	0.2932	0.02212	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603I	0.4442	0.4053	4	No	19	0.4247	0.03323	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603S	0.7338	0.4672	4	No	19	0.6005	0.2276	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604D	0.285	0.2571	4	No	19	0.2711	0.02378	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604I	0.3677	0.3239	4	No	19	0.3458	0.03746	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604S	1.05	0.88	4	No	19	0.9884	0.1922	0	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	MW-1605D	0.2256	0.1976	4	No	19	0.2116	0.02387	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1605I	0.2201	0.1857	4	No	19	0.2011	0.03332	0	None	x^2	0.01	Param.
Fluoride, total (mg/L)	MW-1605S	0.5776	0.516	4	No	19	0.5468	0.0526	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606D	0.1983	0.1775	4	No	19	0.1879	0.01782	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606I	0.2135	0.1865	4	No	19	0.2	0.02309	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606S	0.512	0.4185	4	No	19	0.4653	0.07982	0	None	No	0.01	Param.
Lead, total (mg/L)	MW-1002	0.0002	0.000022	0.015	No	19	0.0001065	0.00008768	42.11	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1602D	0.0001406	0.0000268	0.015	No	19	0.0001666	0.0002002	31.58	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1602I	0.0001837	0.00005843	0.015	No	19	0.0001556	0.000104	26.32	Kaplan-Meier	No	0.01	Param.
Lead, total (mg/L)	MW-1603D	0.0002	0.00002	0.015	No	18	0.000108	0.00008727	38.89	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1603I	0.0002293	0.00003981	0.015	No	19	0.0002308	0.0003475	21.05	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1603S	0.0002	0.000042	0.015	No	19	0.0001475	0.00008595	47.37	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604D	0.0002	0.00002	0.015	No	19	0.00009647	0.00008383	36.84	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604I	0.0002	0.00002	0.015	No	19	0.0001085	0.00008809	42.11	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604S	0.0002	0.00003	0.015	No	18	0.0001212	0.00009252	38.89	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1605D	0.0002	0.000035	0.015	No	19	0.0001246	0.00009188	47.37	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1605I	0.0001401	0.00006375	0.015	No	19	0.0001257	0.00007362	15.79	Kaplan-Meier	No	0.01	Param.
Lead, total (mg/L)	MW-1605S	0.0001884	0.00003495	0.015	No	19	0.0003206	0.000544	21.05	Kaplan-Meier	ln(x)	0.01	Param.
Lead, total (mg/L)	MW-1606D	0.0002	0.00002	0.015	No	19	0.0001259	0.00008703	42.11	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1606I	0.0002	0.000032	0.015	No	19	0.000129	0.00008279	47.37	None	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1606S	0.0001237	0.00002856	0.015	No	18	0.0001467	0.0001117	38.89	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1002	0.007605	0.003942	0.04	No	19	0.007721	0.004683	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1602D	0.007626	0.002798	0.04	No	19	0.005992	0.005446	5.263	None	x^(1/3)	0.01	Param.
Lithium, total (mg/L)	MW-1602I	0.009526	0.004999	0.04	No	19	0.007262	0.003866	5.263	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1603D	0.011	0.00323	0.04	No	19	0.006777	0.003969	10.53	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1603I	0.0096	0.005759	0.04	No	19	0.00957	0.003854	15.79	Kaplan-Meier	No	0.01	Param.
Lithium, total (mg/L)	MW-1603S	0.005416	0.002501	0.04	No	19	0.006958	0.005103	15.79	Kaplan-Meier	ln(x)	0.01	Param.
Lithium, total (mg/L)	MW-1604D	0.01	0.0014	0.04	No	19	0.005846	0.005499	21.05	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1604I	0.01046	0.006278	0.04	No	19	0.008367	0.003568	5.263	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1604S	0.01266	0.008907	0.04	No	19	0.01078	0.003207	5.263	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1605D	0.006	0.00161	0.04	No	19	0.004767	0.004044	10.53	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1605I	0.01	0.00497	0.04	No	19	0.00725	0.003338	0	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1605S	0.01587	0.01165	0.04	No	19	0.01376	0.003608	5.263	None	No	0.01	Param.
Lithium, total (mg/L)	MW-1606D	0.009	0.000564	0.04	No	19	0.004684	0.005209	15.79	None	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1606I	0.008142	0.004398	0.04	No	19	0.006522	0.003465	5.263	None	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1606S	0.01199	0.008792	0.04	No	19	0.01039	0.002727	5.263	None	No	0.01	Param.
Mercury, total (mg/L)	MW-1002	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602D	0.000005	0.000003	0.002	No	18	0.000004889	4.7e-7	88.89	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602I	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603D	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603I	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603S	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604D	0.000005	0.000002	0.002	No	18	0.000004833	7.1e-7	88.89	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604I	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604S	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605D	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605I	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605S	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606D	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606I	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606S	0.000005	0.000005	0.002	No	18	0.000005	3.0e-14	94.44	None	No	0.01	NP (NDs)



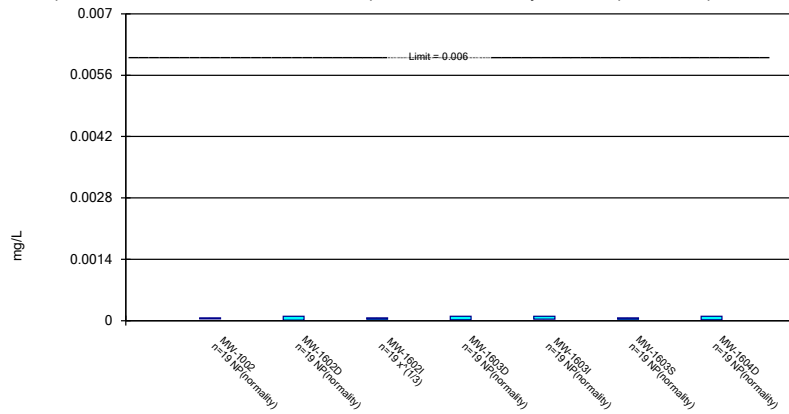
# Confidence Intervals Summary Table - All Results (No Significant) Page 4

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 4:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum, total (mg/L)	MW-1002	0.007061	0.003701	0.1	No	19	0.005618	0.002919	0	None	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1602D	0.003728	0.00328	0.1	No	19	0.003517	0.0004063	0	None	ln(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1602I	0.00231	0.00201	0.1	No	19	0.002181	0.0002	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1603D	0.005157	0.003977	0.1	No	19	0.004601	0.001052	0	None	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1603I	0.008406	0.006338	0.1	No	19	0.007372	0.001765	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1603S	0.0008663	0.0002751	0.1	No	19	0.0007716	0.0006442	21.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1604D	0.003033	0.002539	0.1	No	19	0.002799	0.0004437	0	None	x^(1/3)	0.01	Param.
Molybdenum, total (mg/L)	MW-1604I	0.002718	0.00235	0.1	No	19	0.002534	0.000314	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1604S	0.00309	0.00221	0.1	No	19	0.002747	0.0008669	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1605D	0.00244	0.00197	0.1	No	18	0.002182	0.0003449	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1605I	0.00133	0.001	0.1	No	18	0.001166	0.0001608	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1605S	0.002074	0.001705	0.1	No	19	0.001868	0.0003444	0	None	x^2	0.01	Param.
Molybdenum, total (mg/L)	MW-1606D	0.00213	0.00185	0.1	No	19	0.002083	0.0004581	0	None	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1606I	0.001523	0.001081	0.1	No	18	0.001302	0.0003649	0	None	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1606S	0.00132	0.001	0.1	No	18	0.001194	0.0003048	0	None	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1002	0.0001	0.00006	0.05	No	19	0.0001232	0.0001338	10.53	None	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1602D	0.0005	0.00005	0.05	No	19	0.0002489	0.0002232	42.11	None	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1602I	0.0005	0.00005	0.05	No	19	0.0002684	0.0002265	47.37	None	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1603D	0.0005	0.00004	0.05	No	19	0.0003005	0.0002236	52.63	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603I	0.0005	0.00007	0.05	No	19	0.0003516	0.0002053	63.16	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603S	0.0002821	0.00008789	0.05	No	19	0.0002674	0.0003496	10.53	None	ln(x)	0.01	Param.
Selenium, total (mg/L)	MW-1604D	0.0005	0.0001	0.05	No	19	0.0004068	0.0001858	78.95	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604I	0.0005	0.00005	0.05	No	19	0.0002947	0.0002231	52.63	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604S	0.0001354	0.00006376	0.05	No	19	0.0001174	0.000106	5.263	None	ln(x)	0.01	Param.
Selenium, total (mg/L)	MW-1605D	0.0005	0.00004	0.05	No	19	0.0003332	0.0002249	63.16	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605I	0.0005	0.00004	0.05	No	19	0.0003116	0.0002275	57.89	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605S	0.001078	0.0005423	0.05	No	18	0.00081	0.0004424	0	None	No	0.01	Param.
Selenium, total (mg/L)	MW-1606D	0.0005	0.00006	0.05	No	19	0.0003621	0.000209	68.42	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606I	0.0005	0.0001	0.05	No	19	0.0003821	0.0002031	73.68	None	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606S	0.004305	0.002841	0.05	No	19	0.003573	0.00125	0	None	No	0.01	Param.
Thallium, total (mg/L)	MW-1002	0.0002	0.00003	0.002	No	19	0.0001121	0.00008593	47.37	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1602D	0.0002	0.000066	0.002	No	19	0.0001661	0.00006808	78.95	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1602I	0.0002	0.00002	0.002	No	19	0.0001179	0.00008935	52.63	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603D	0.0002	0.00004	0.002	No	19	0.0001488	0.000078	68.42	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603I	0.0002	0.00003	0.002	No	19	0.0001142	0.00008395	47.37	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1603S	0.0002	0.00002	0.002	No	19	0.0001139	0.00008547	47.37	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1604D	0.0002	0.000095	0.002	No	19	0.0001671	0.00006727	78.95	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604I	0.0002	0.00002	0.002	No	19	0.0001105	0.00008863	47.37	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1604S	0.0002	0.00003	0.002	No	19	0.0001165	0.0000831	47.37	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1605D	0.0002	0.00005	0.002	No	19	0.0001732	0.00006404	84.21	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605I	0.0002	0.00003	0.002	No	19	0.0001196	0.00008553	47.37	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1605S	0.0002	0.00003	0.002	No	19	0.0001074	0.00008312	42.11	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1606D	0.0002	0.000124	0.002	No	19	0.0001697	0.0000633	78.95	None	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1606I	0.0002	0.00004	0.002	No	19	0.0001181	0.00008066	47.37	None	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1606S	0.0002	0.00002	0.002	No	19	0.0001194	0.00008852	52.63	None	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

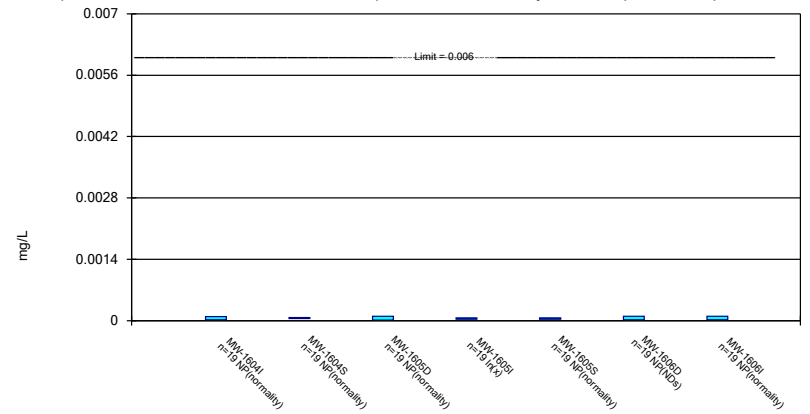
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

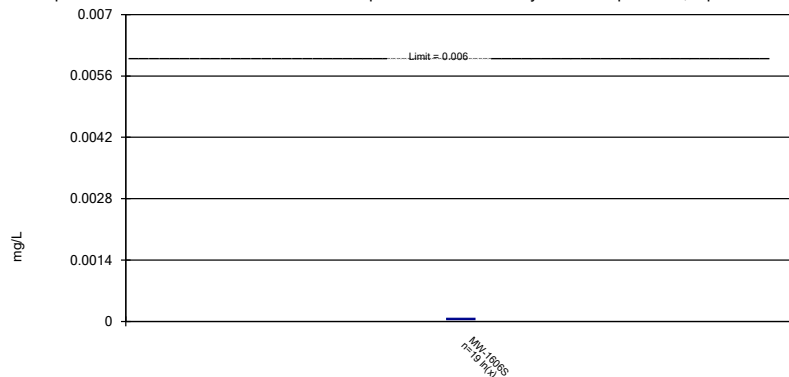
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric Confidence Interval

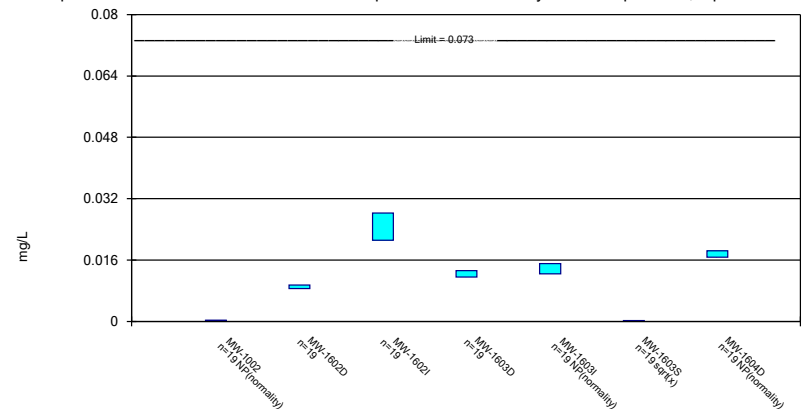
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

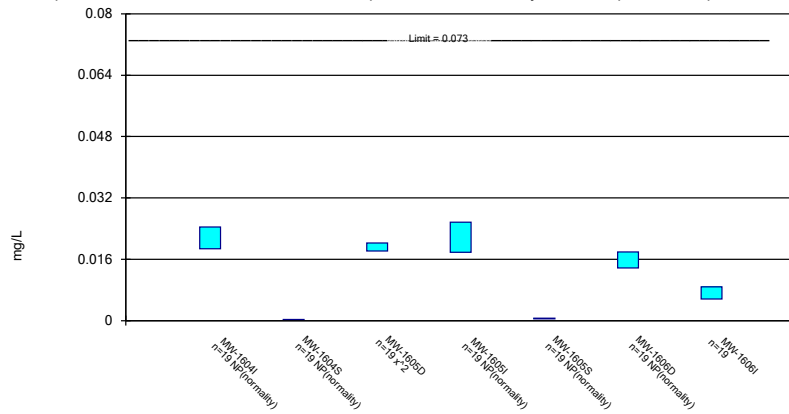
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

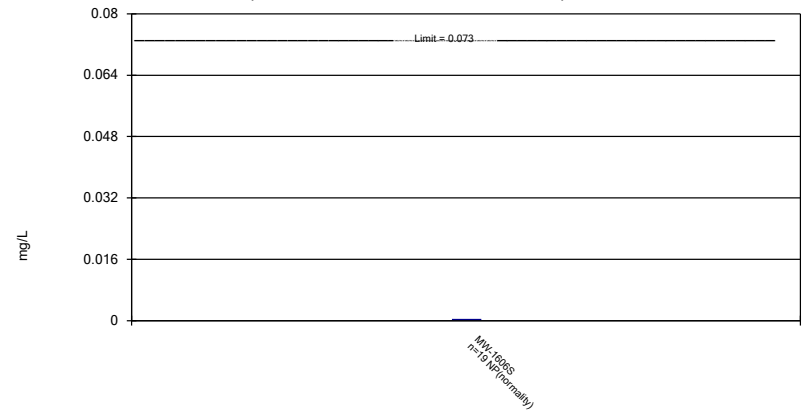
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

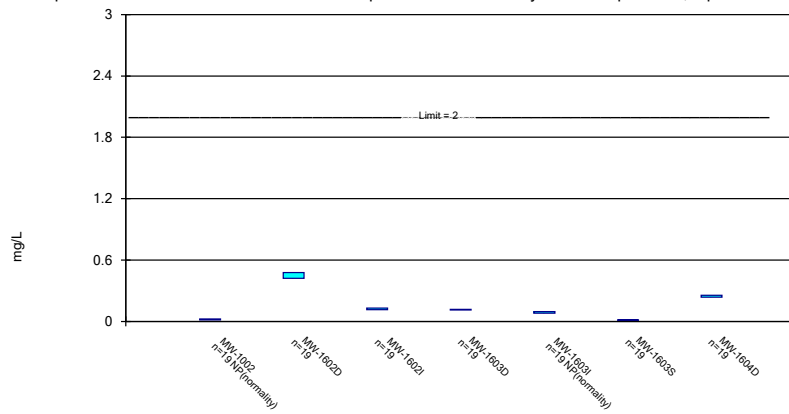
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

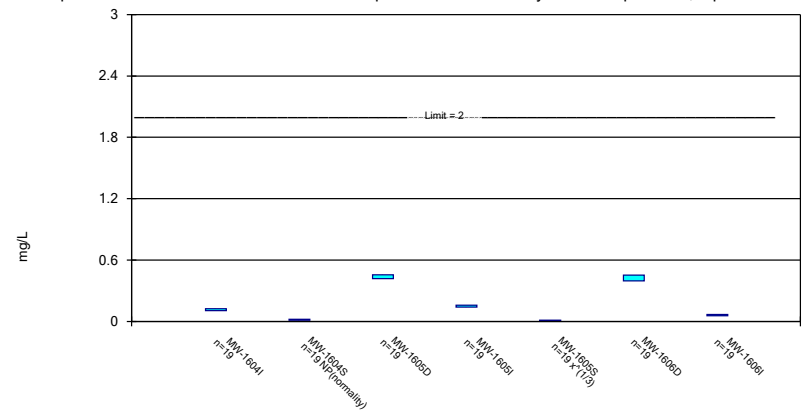
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

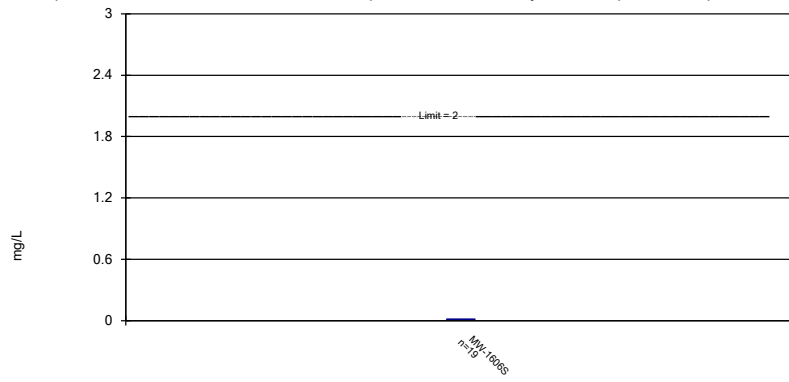
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

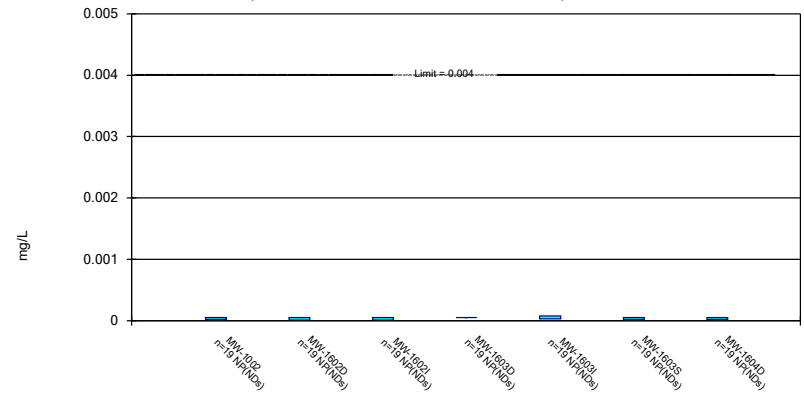
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

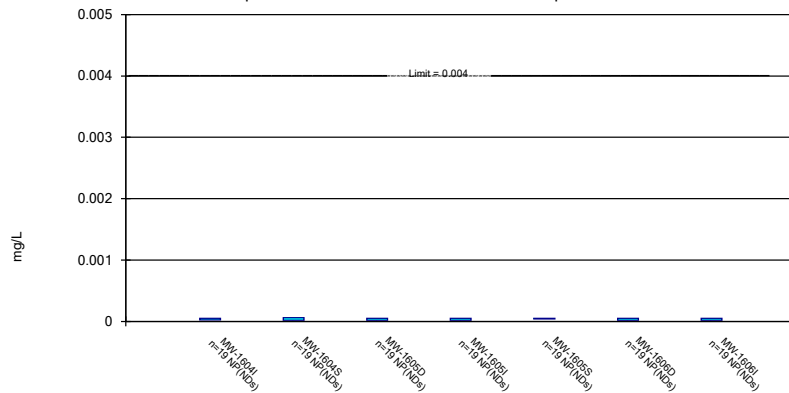
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

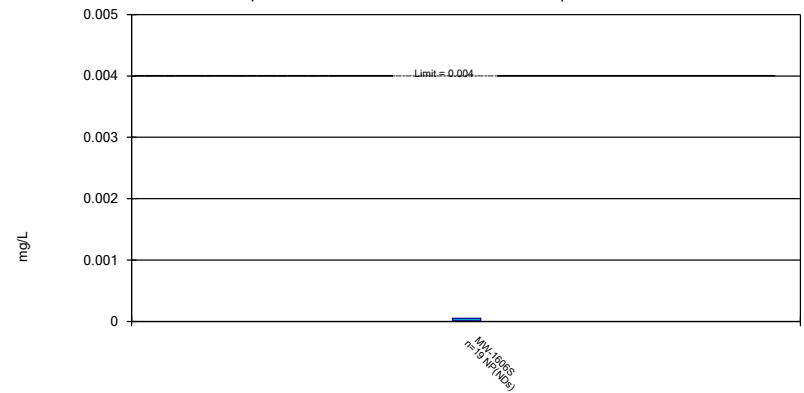
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

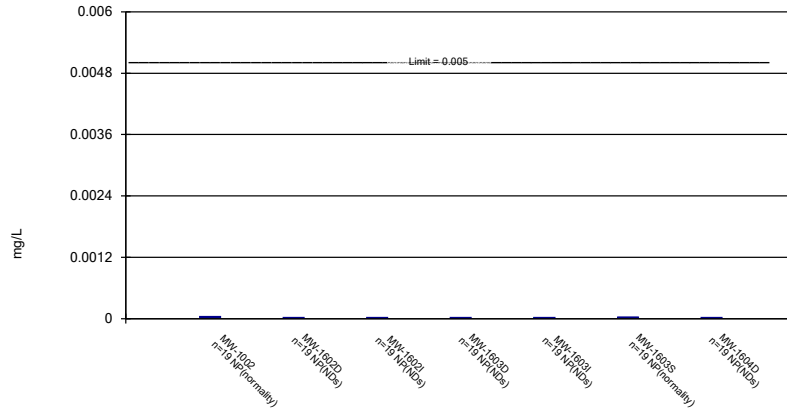
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

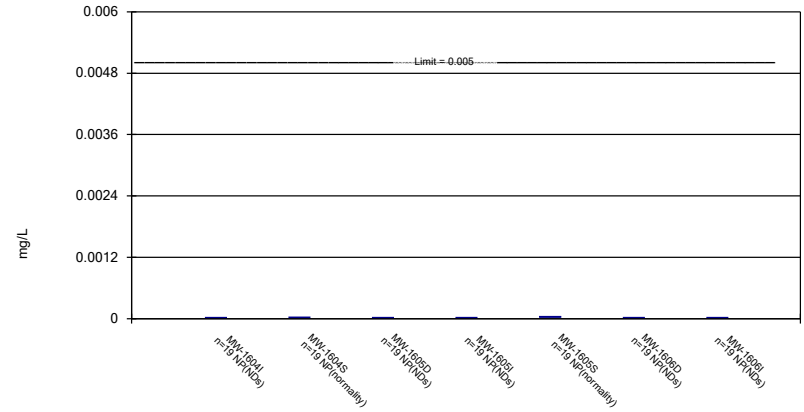
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

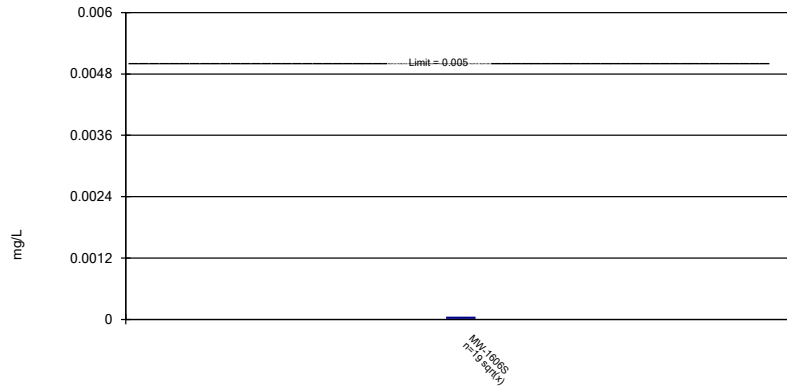
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

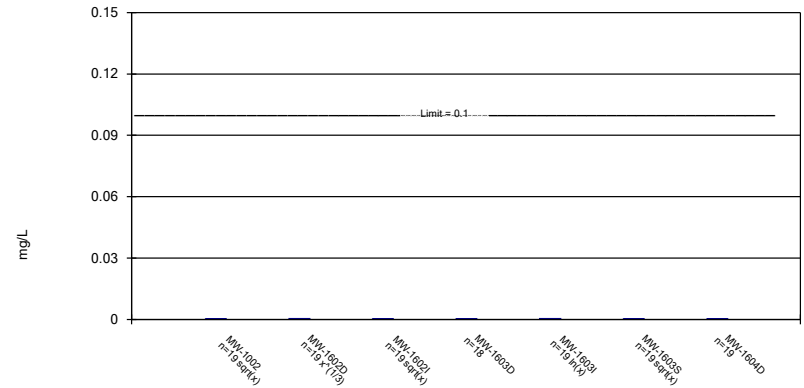
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

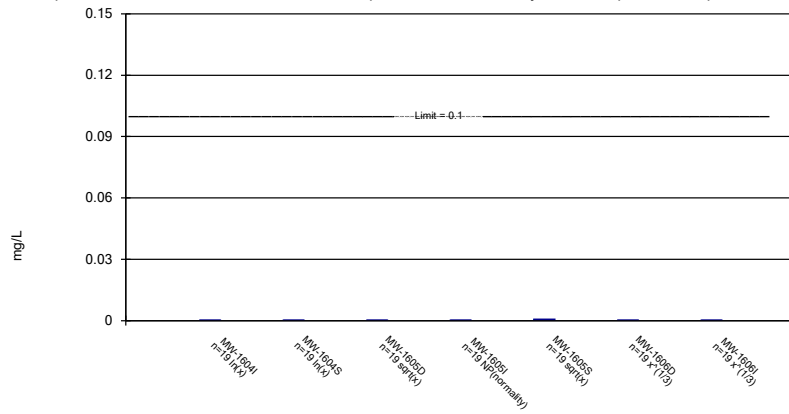
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

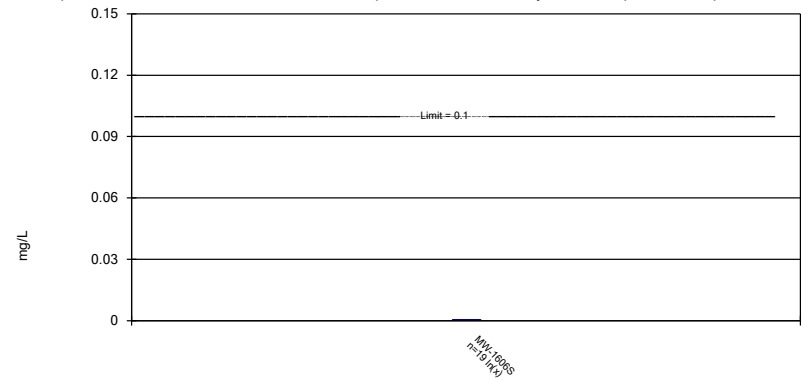
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

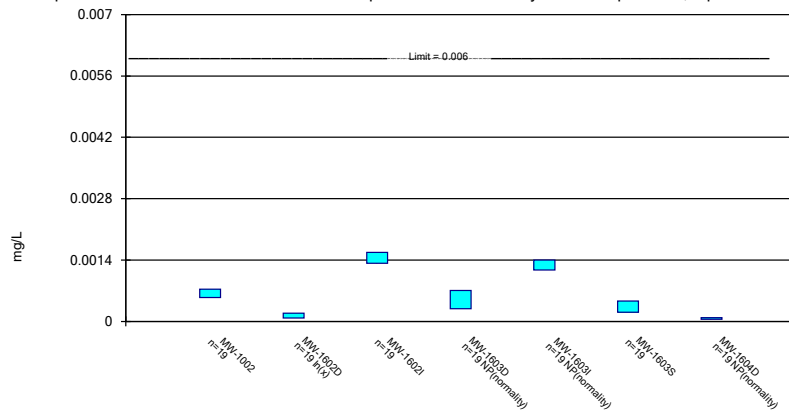
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

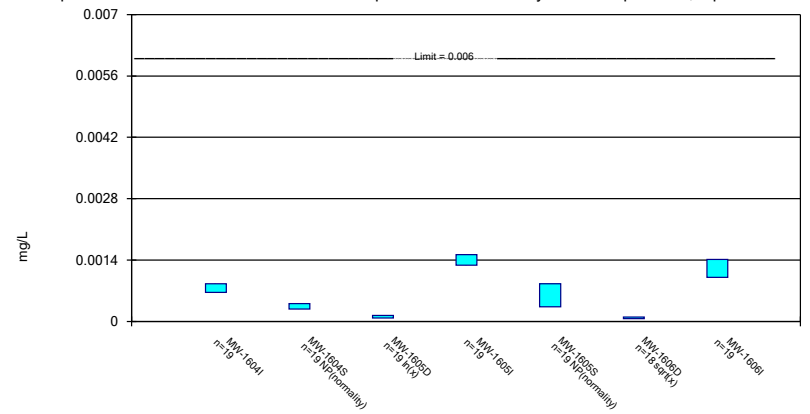
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

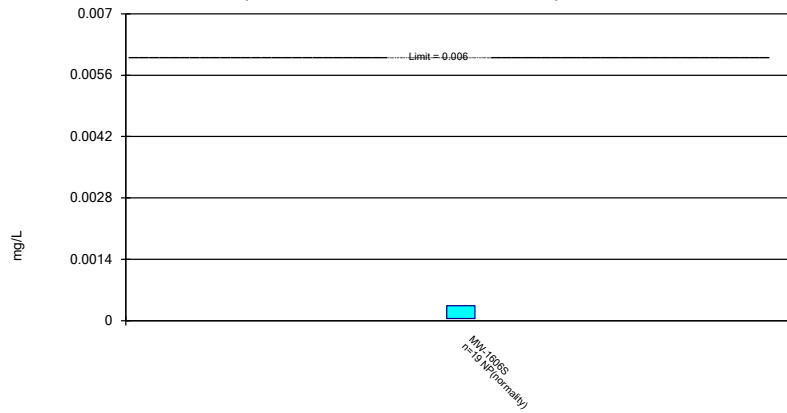
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

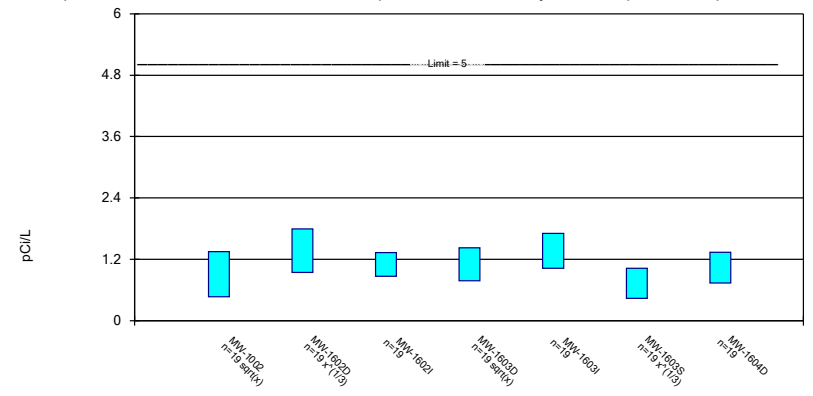
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

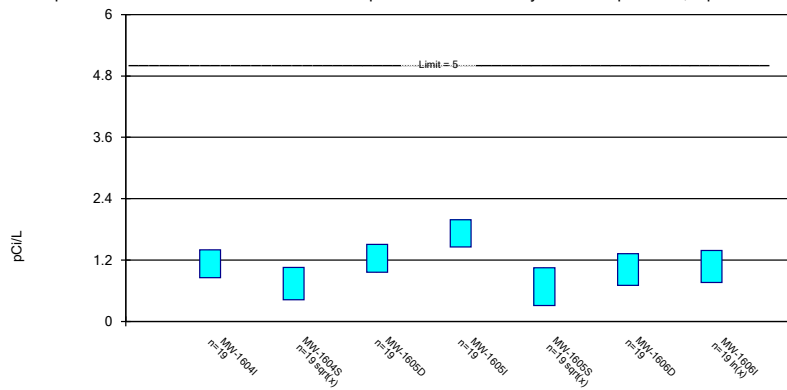
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

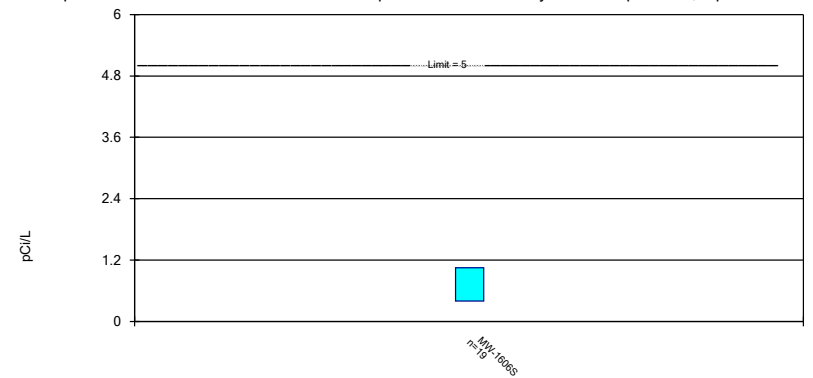
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

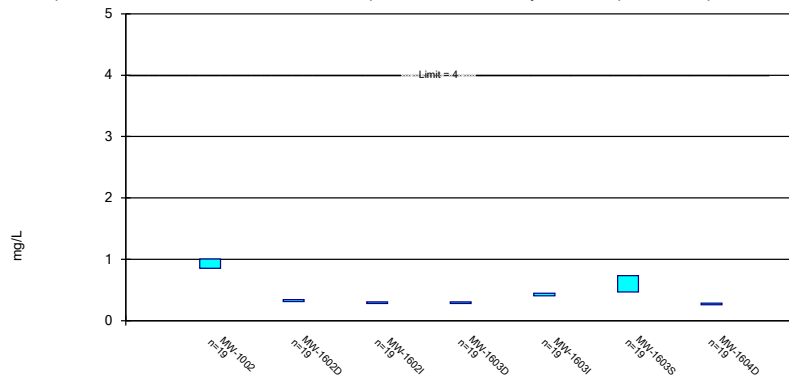
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

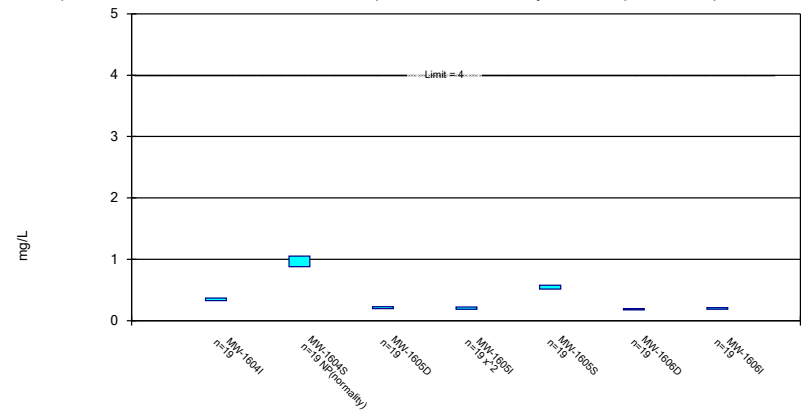
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/13/2022 4:24 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 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

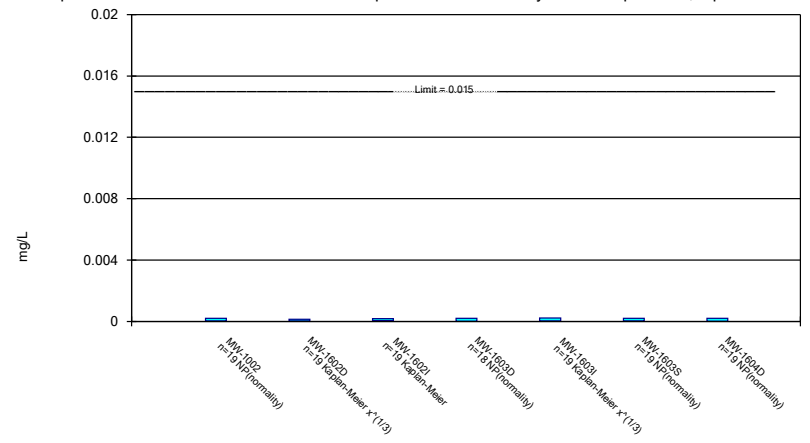
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 1/13/2022 4:24 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.

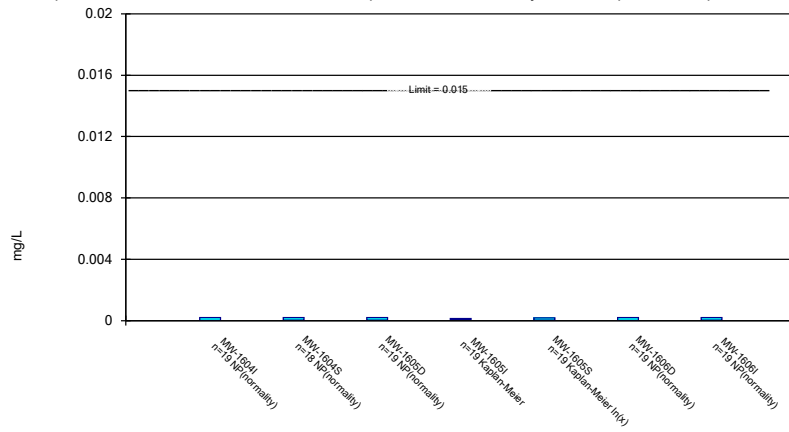


Constituent: Lead, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



### Parametric and Non-Parametric (NP) Confidence Interval

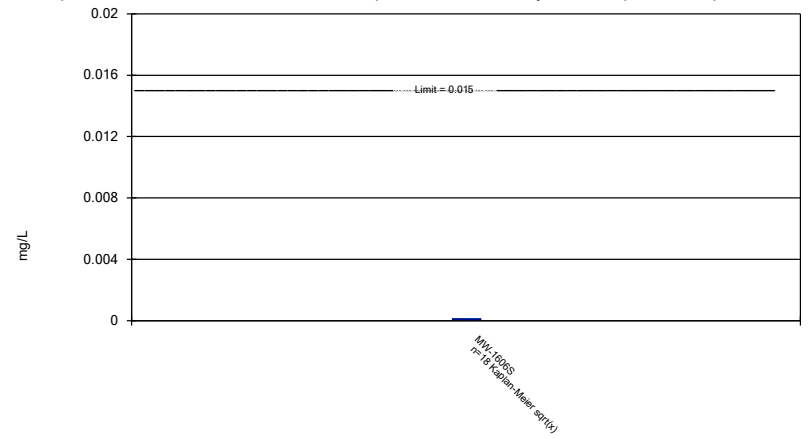
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

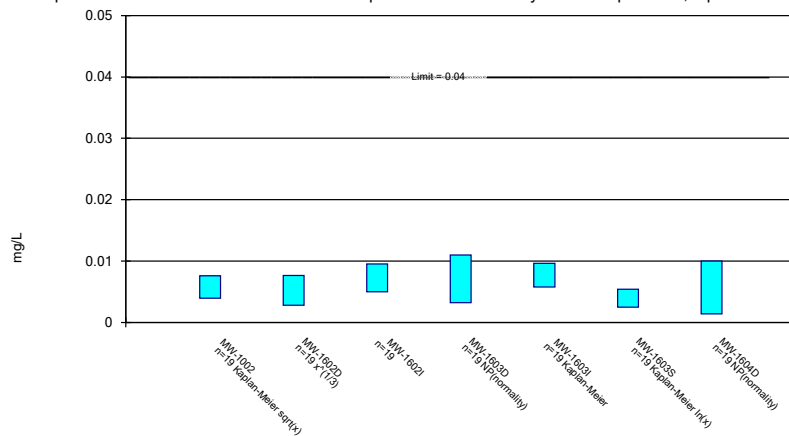
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

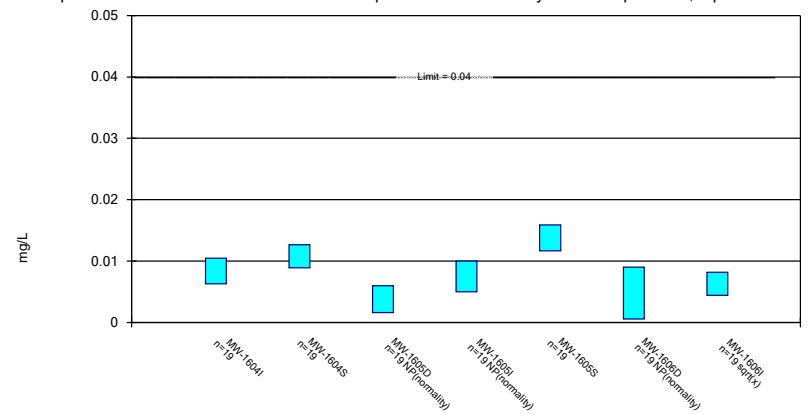
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

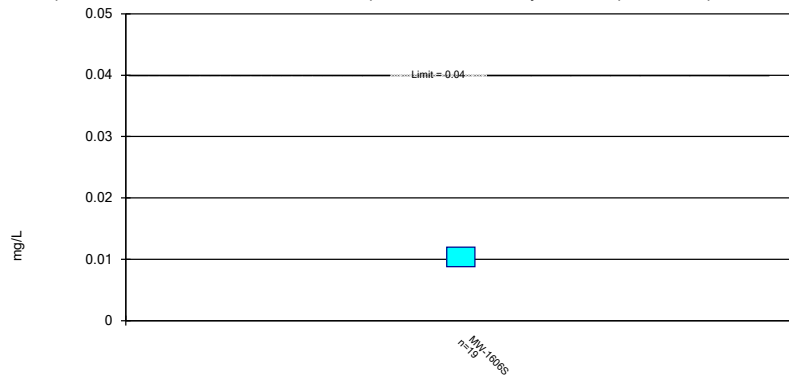
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

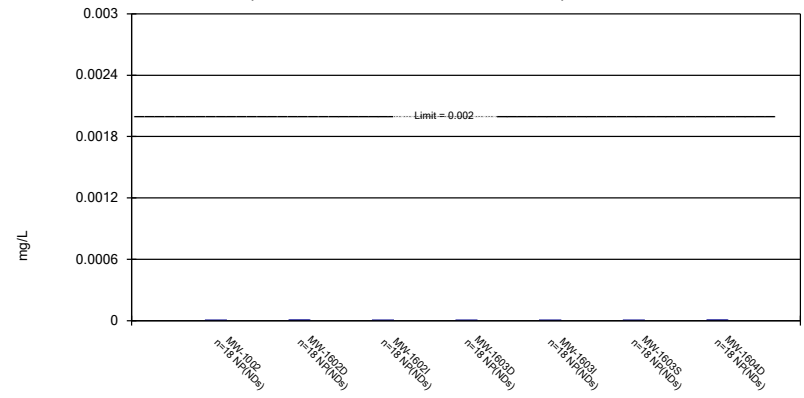
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

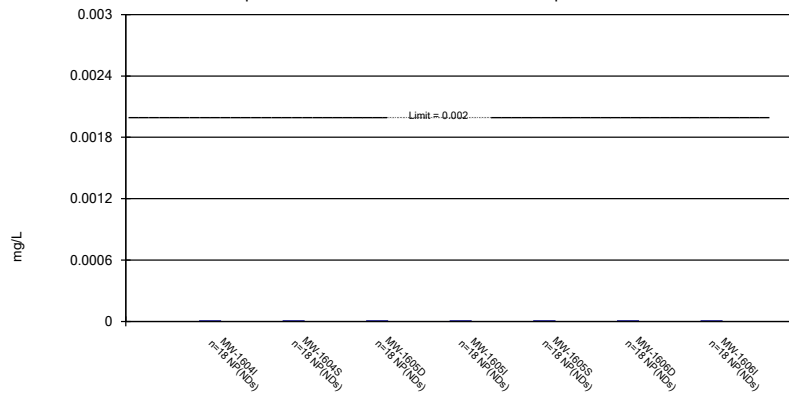
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

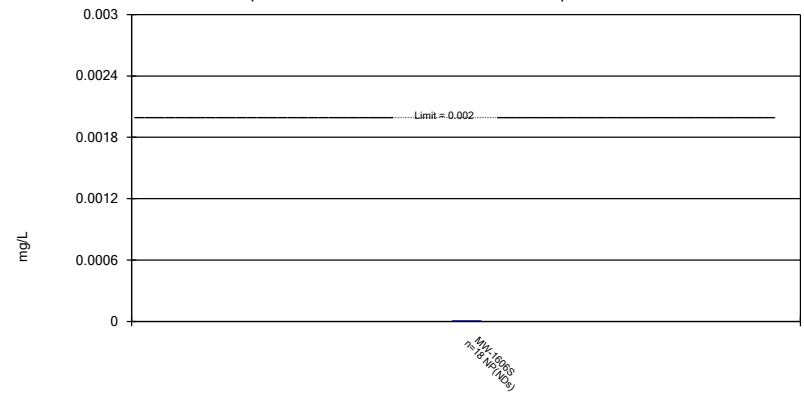
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

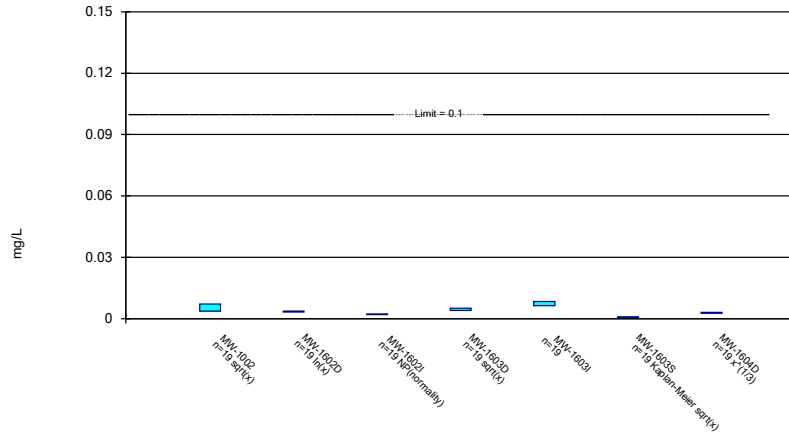
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

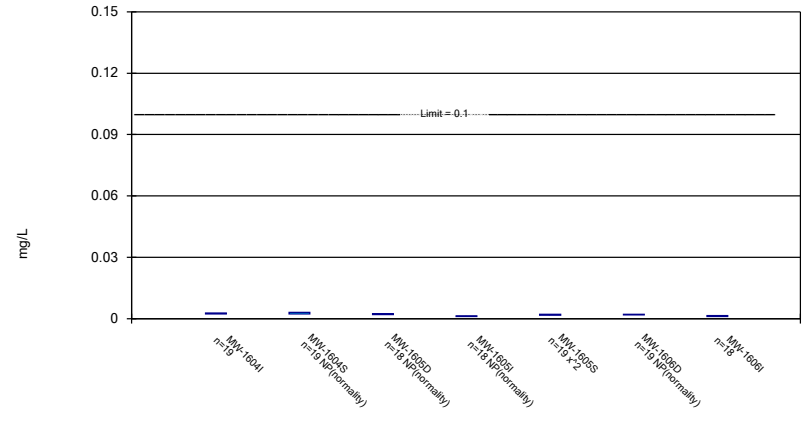
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

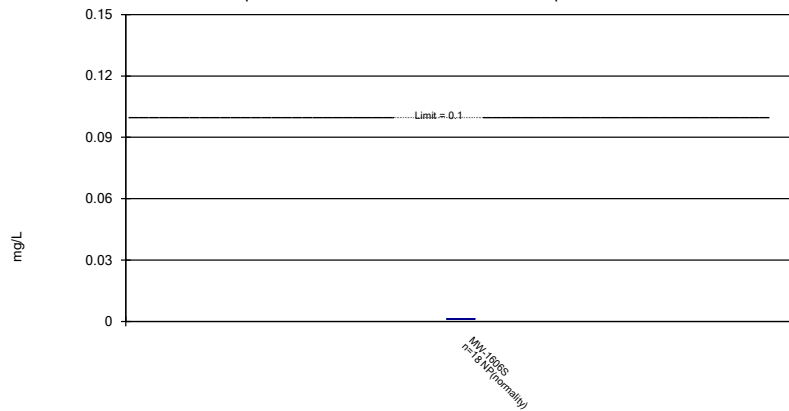
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

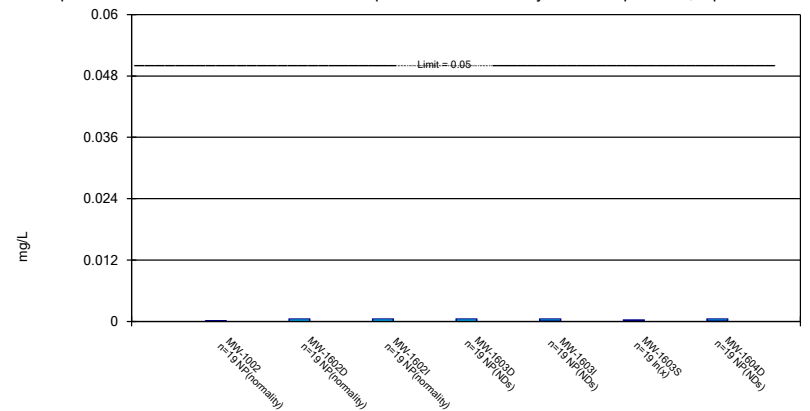
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

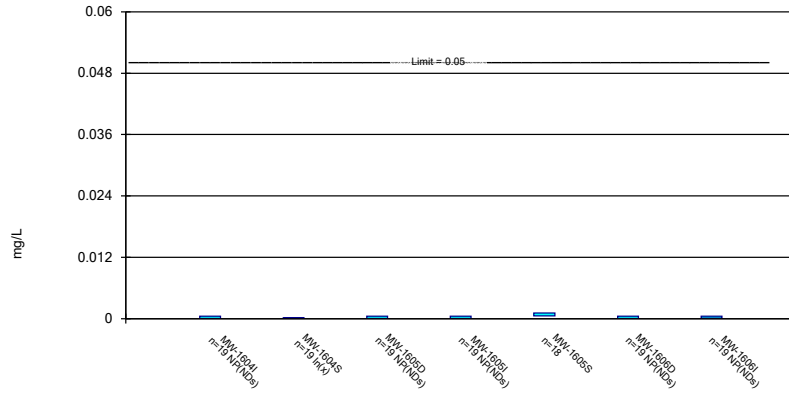
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

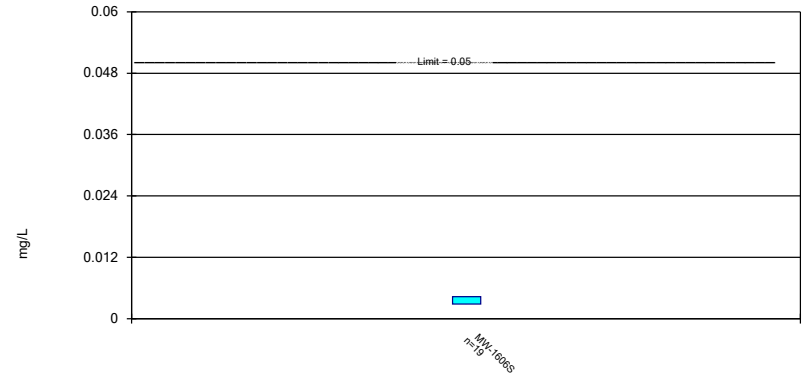
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

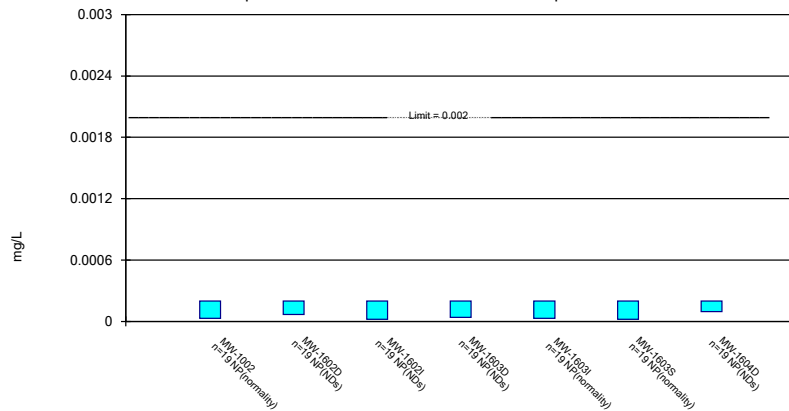
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

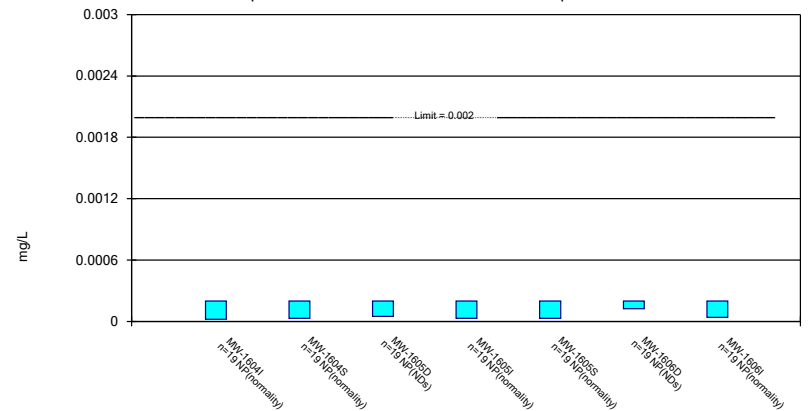
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

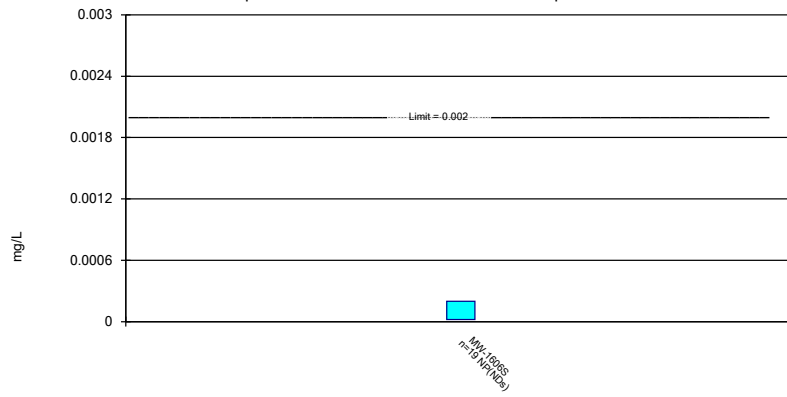
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, total Analysis Run 1/13/2022 4:24 PM View: Confidence Intervals  
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 1/13/2022 4:24 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

**STATISTICAL ANALYSIS SUMMARY**  
**BOTTOM ASH POND**  
**Rockport Plant**  
**Rockport, Indiana**

*Submitted to*



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## LIST OF ATTACHMENTS

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

## LIST OF ACRONYMS AND ABBREVIATIONS

AEP	American Electric Power
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
LPL	Lower Prediction Limit
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 Units
TDS	Total Dissolved Solids
UPL	Upper Prediction Limit
UTL	Upper Tolerance Limit
USEPA	United States Environmental Protection Agency



## 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 Subpart D, "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. Recent groundwater monitoring results were compared to the site-specific groundwater protection standards (GWPSs) to identify potential exceedances.

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 2018. During the most recent assessment monitoring event, completed in November 2021, Appendix III detections of boron, chloride, fluoride, sulfate, and TDS were observed above background levels and the unit remained in assessment monitoring (Geosyntec, 2022).

During 2022, an annual sampling event for the Appendix III and Appendix IV parameters required by 257.95(b) was completed in February, and a semi-annual sampling event for the Appendix III and Appendix IV parameters required by 257.95(d)(1) was completed in May. The results of these annual and semi-annual assessment monitoring events are documented in this report.

Prior to conducting the statistical analyses, the 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 data usability.

The monitoring data were submitted to Groundwater Stats Consulting, LLC for statistical analysis. Confidence intervals were calculated for Appendix IV parameters at the compliance wells to assess whether any were present at concentrations above the GWPSs. No statistically significant levels (SSLs) were identified; however, concentrations of Appendix III parameters remained above background. Thus, the unit will remain in assessment 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) (February 2022) and 257.95(d)(1) (May 2022). Samples from the both the February and May 2022 sample events were analyzed for all 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.9.6.32 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 October 2020 *Statistical Analysis Plan* (Geosyntec, 2020), except where noted below. Time series plots and results for all completed statistical tests are provided in Attachment B.

The data obtained in February and May 2022 were screened for potential outliers. No outliers were identified for results at the downgradient monitoring locations which would affect the calculation of confidence intervals (Attachment B).

##### 2.2.1 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. The calculated confidence limits were compared to the GWPSs provided in Table 2. The GWPSs were established during a

previous statistical analysis as either the greater value of the background concentration or the maximum contaminant level (MCL) and risk-based level specified in 40 CFR 257.95(h)(2) (Geosyntec, 2022).

No SSLs were identified at the Rockport BAP.

### **2.2.2 Evaluation of Potential Appendix III SSIs**

The Appendix III results were analyzed to assess whether concentrations of Appendix III parameters at the compliance wells exceeded background concentrations. Data collected during the May 2022 assessment monitoring event from each compliance well were compared to previously calculated prediction limits to assess whether the results are above background values. The results from the May 2022 event 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 0.208 mg/L at MW-1002 (1.74 mg/L), MW-1603S (1.59 mg/L), MW-1604S (0.665 mg/L), and MW-1605S (0.598 mg/L).
- Chloride concentrations exceeded the interwell UPL of 46.4 mg/L at MW-1002 (61.3 mg/L), MW-1602D (66.5 mg/L), MW-1604S (76.3 mg/L), and MW-1605S (50.5 mg/L).
- Fluoride concentrations exceeded the interwell UPL of 0.700 mg/L at MW-1002 (0.96 mg/L), MW-1603S (0.81 mg/L), and MW-1604S (0.90 mg/L).
- Sulfate concentrations exceeded the interwell UPL of 76.0 mg/L at MW-1002 (173 mg/L), MW-1603S (296 mg/L), MW-1604I (81.8 mg/L), MW-1604S (131 mg/L), MW-1605I (106 mg/L) and at MW-1605S (178 mg/L).
- TDS concentrations exceeded the interwell UPL of 454 mg/L at MW-1002 (470 mg/L), MW-1603S (600 mg/L), MW-1604S (520 mg/L), and MW-1605S (600 mg/L).

While the prediction limits were calculated for a one-of-two retesting procedure, SSIs were conservatively assumed if the May 2022 sample was above the UPL or below the lower prediction limit (LPL) for pH. Based on this evaluation, concentrations of Appendix III constituents appear to be above background concentrations and the unit will remain in assessment monitoring.

### **2.3 Conclusions**

An annual and a semi-annual assessment monitoring event were 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 confidence interval was constructed at each compliance well for each Appendix IV parameter; SSLs were concluded if the entire confidence interval exceeded the GWPSs. No SSLs were identified.

The Appendix III results were evaluated to assess whether concentrations of Appendix III parameters exceeded background levels. Boron, chloride, fluoride, sulfate, and TDS results exceeded background levels at select downgradient wells.

Based on this evaluation, the Rockport BAP CCR unit will remain in assessment monitoring.

## **SECTION 3**

### **REFERENCES**

Geosyntec Consultants (Geosyntec). 2020. Statistical Analysis Plan – Rockport Plant. October 2020.

Geosyntec. 2022. Statistical Analysis Summary – Bottom Ash Pond, Rockport Plant, Rockport, Indiana. March 3, 2022.

# TABLES

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

Parameter	Unit	MW-1002		MW-1600D		MW-1600I		MW-1600S		MW-1601D	
		2/15/2022	5/10/2022	2/16/2022	5/10/2022	2/17/2022	5/10/2022	2/17/2022	5/10/2022	2/16/2022	5/11/2022
Antimony	µg/L	0.04 J1	0.04 J1	0.1 U1	0.04 J1	0.02 J1	0.02 J1	0.1 U1	0.02 J1	0.1 U1	0.02 J1
Arsenic	µg/L	0.27	0.27	16.2	18.7	20.2	19.5	0.39	0.43	11.3	11.5
Barium	µg/L	13.9	14.0	843	889	770	729 M1, P3	21.0	19.5	522	594
Beryllium	µg/L	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	1.81	1.74	0.019 J1	0.016 J1	0.019 J1	0.021 J1	0.038 J1	0.025 J1	0.028 J1	0.027 J1
Cadmium	µg/L	0.020	0.019 J1	0.02 U1	0.028	0.013 J1	0.02 U1	0.011 J1	0.011 J1	0.007 J1	0.025
Calcium	mg/L	52.2	47.4	82.2	94.0	78.6	88.3 M1, P3	61.7	63.5	86.9	101
Chloride	mg/L	66.9	61.3	30.5	30.0	26.6	27.2	35.8	27.0	20.0	23.2
Chromium	µg/L	0.33	0.24	0.38	0.33	0.11 J1	0.25	0.32	0.28	0.16 J1	0.37
Cobalt	µg/L	0.531	0.537	0.062	0.096	1.17	1.22	0.074	0.122	0.054	0.102
Combined Radium	pCi/L	0.43	1.25	1.4	1.32	3.18	2.13	1.27	2.69	1.66	1.77
Fluoride	mg/L	0.95	0.96	0.23	0.22	0.24	0.23	0.46	0.55	0.18	0.17
Lead	µg/L	0.2 U1	0.2 U1	0.2 U1	0.06 J1	0.07 J1	0.2 U1	0.2 U1	0.06 J1	0.2 U1	0.06 J1
Lithium	mg/L	0.00554	0.00538	0.00528	0.00509	0.00645	0.00603	0.0116	0.0106	0.00136	0.00156
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	7.7	7.1	1.7	1.8	1.6	1.7	0.6	0.7	3.0	2.9
Selenium	µg/L	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.51	0.63	0.5 U1	0.5 U1
Sulfate	mg/L	176	173	42.7	44.6	52.9	54.6	43.3	39.6	21.3	25.7
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Total Dissolved Solids	mg/L	490	470 L1	400	390 L1	420 P2	410 L1	380 P2	380 L1	430	410 L1
pH	SU	7.4	7.4	6.7	7.02	7.03	6.84	6.41	6.67	6.74	6.81

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U1: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.

J1: Estimated value. Parameter was detected in concentrations below the reporting limit.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.

P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

L1: The associated laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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

Parameter	Unit	MW-1601I		MW-1601S		MW-1602D		MW-1602I		MW-1603D	
		2/16/2022	5/10/2022	2/16/2022	5/11/2022	2/15/2022	5/11/2022	2/15/2022	5/11/2022	2/15/2022	5/10/2022
Antimony	µg/L	0.1 U1	0.1 U1	0.1 U1	0.1 U1	0.02 J1	0.1 U1	0.02 J1	0.12	0.02 J1	0.1 U1
Arsenic	µg/L	19.1	19.5	2.32	2.47	9.69	10.1	24.4	42.9	14.6	14.6
Barium	µg/L	643	627	30.3	31.4	445	444	95.0	99.2	128	122
Beryllium	µg/L	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	0.023 J1	0.022 J1	0.121	0.109	0.057	0.048 J1	0.046 J1	0.043 J1	0.035 J1	0.021 J1
Cadmium	µg/L	0.02 U1	0.011 J1	0.044	0.006 J1	0.02 U1	0.02 U1	0.02 U1	0.005 J1	0.035	0.02 U1
Calcium	mg/L	86.6	94.9	64.3	66.7	68.2	76.0	68.5	81.0	86.6	88.9 M1, P3
Chloride	mg/L	29.9	31.0	33.1	36.1	80.7	66.5	23.0	24.0	27.3	29.1
Chromium	µg/L	0.40	0.24	0.72	0.34	0.48	0.24	0.36	0.33	0.41	0.30
Cobalt	µg/L	1.30	1.24	0.257	0.452	0.080	0.067	1.06	1.21	0.326	0.286
Combined Radium	pCi/L	1.49	1.97	1.58	0.41	1.85	1.29	0.9	1.04	1.88	1.59
Fluoride	mg/L	0.24	0.24	0.42	0.40	0.34	0.34	0.30	0.29	0.28	0.28
Lead	µg/L	0.2 U1	0.2 U1	0.07 J1	0.12 J1	0.2 U1	0.2 U1	0.2 U1	0.09 J1	0.48	0.2 U1
Lithium	mg/L	0.00627	0.00590	0.00464	0.00458	0.00241	0.00215	0.00487	0.00455	0.00329	0.00320
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	2.2	2.2	2.2	2.1	3.4	3.6	2.2	2.3	3.7	3.7
Selenium	µg/L	0.5 U1	0.5 U1	0.76	0.76	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.5 U1
Sulfate	mg/L	51.0	51.5	55.0	54.3	20.2	24.7	57.8	58.7	34.9	36.2
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Total Dissolved Solids	mg/L	430	420 L1	380	380 L1	440	430 L1	380	380 L1	390	390 L1
pH	SU	6.61	6.73	6.93	6.98	7.25	7.51	7.14	7.46	7.08	7.15

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U1: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.

J1: Estimated value. Parameter was detected in concentrations below the reporting limit.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.

P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

L1: The associated laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.



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

Parameter	Unit	MW-1603I		MW-1603S		MW-1604D		MW-1604I		MW-1604S	
		2/15/2022	5/10/2022	2/15/2022	5/10/2022	2/15/2022	5/11/2022	2/15/2022	5/11/2022	2/15/2022	5/11/2022
Antimony	µg/L	0.20	0.04 J1	0.04 J1	0.04 J1	0.1 U1	0.1 U1	0.1 U1	0.05 J1	0.05 J1	0.05 J1
Arsenic	µg/L	37.9	17.1	0.19	0.20	17.8	18.6	19.5	28.3	0.19	0.17
Barium	µg/L	97.7	94.0	10.6	19.0	254	259	88.8	92.4	13.9	13.2
Beryllium	µg/L	0.016 J1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	0.048 J1	0.032 J1	1.85	1.59	0.021 J1	0.013 J1	0.118	0.092	0.738	0.665
Cadmium	µg/L	0.016 J1	0.02 U1	0.540	0.037	0.02 U1	0.02 U1	0.02 U1	0.004 J1	0.023	0.024
Calcium	mg/L	74.8	80.8	42.4	81.9	67.8	71.7	60.5	64.0	81.4	81.6
Chloride	mg/L	32.3	33.4	59.1	36.9	15.2	15.1	37.8	39.2	89.1	76.3
Chromium	µg/L	0.46	0.27	0.32	0.29	0.25	0.30	0.27	0.42	0.39	0.32
Cobalt	µg/L	1.16	1.16	0.547	0.389	0.051	0.057	0.600	0.674	0.342	0.327
Combined Radium	pCi/L	2.26	0.93	1.06	1.13	0.92	1.31	2.12	3.74	0.19	0.62
Fluoride	mg/L	0.42	0.42	0.98	0.81	0.27	0.27	0.37	0.38	0.90	0.90
Lead	µg/L	0.29	0.07 J1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.06 J1	0.2 U1	0.2 U1
Lithium	mg/L	0.00643	0.00628	0.00396	0.00499	0.00136	0.00138	0.00626	0.00547	0.0100	0.0102
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	5.7	5.3	0.7	0.5	2.5	2.6	2.1	2.2	3.0	3.1
Selenium	µg/L	0.5 U1	0.5 U1	0.5 U1	0.15 J1	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.18 J1	0.13 J1
Sulfate	mg/L	66.7	66.3	197	296	19.8	19.8	86.6	81.8	128	131
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Total Dissolved Solids	mg/L	430	440 L1	500	600 L1	310	320	420	400	570	520
pH	SU	7.24	7.26	6.86	7.05	6.73	7.36	7.11	7.51	7.33	7.54

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U1: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.

J1: Estimated value. Parameter was detected in concentrations below the reporting limit.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.

P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

L1: The associated laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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

Parameter	Unit	MW-1605D		MW-1605I		MW-1605S		MW-1606D		MW-1606I	
		2/15/2022	5/11/2022	2/15/2022	5/11/2022	2/15/2022	5/11/2022	2/15/2022	5/10/2022	2/14/2022	5/10/2022
Antimony	µg/L	0.1 U1	0.1 U1	0.03 J1	0.03 J1	0.04 J1	0.03 J1	0.1 U1	0.1 U1	0.02 J1	0.1 U1
Arsenic	µg/L	22.3	23.3	18.5	19.2	0.52	0.55	17.8	17.8	14.0	9.79
Barium	µg/L	440	460 M1, P3	120	121	5.79	6.47	493	472	56.9	51.2
Beryllium	µg/L	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	0.016 J1	0.05 U1	0.060	0.056	0.538	0.598	0.017 J1	0.016 J1	0.013 J1	0.016 J1
Cadmium	µg/L	0.02 U1	0.02 U1	0.004 J1	0.005 J1	0.045	0.042	0.02 U1	0.02 U1	0.004 J1	0.02 U1
Calcium	mg/L	75.9	78.6 M1, P3	77.4	76.5	77.2	87.3	82.1	85.4	63.4	66.8
Chloride	mg/L	23.5	23.2	36.2	37.1	51.8	50.5	27.7	28.4	19.0	19.5
Chromium	µg/L	0.34	0.20	0.29	0.31	0.62	0.56	0.34	0.36	0.36	0.34
Cobalt	µg/L	0.052	0.060	1.27	1.24	0.470	0.418	0.048	0.049	1.24	1.18
Combined Radium	pCi/L	0.9	0.81	3.18	1.37	0.7	0.66	2.33	0.81	0.92	1.03
Fluoride	mg/L	0.21	0.21	0.21	0.22	0.49	0.55	0.18	0.18	0.21	0.22
Lead	µg/L	0.2 U1	0.2 U1	0.06 J1	0.06 J1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Lithium	mg/L	0.00156	0.00149	0.00479	0.00471	0.00954	0.00964	0.00048	0.00047	0.00323	0.00277
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	1.9	2.0	1.4	1.3	1.9	1.8	1.7	1.7	1.3	1.3
Selenium	µg/L	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.31 J1	0.73	0.5 U1	0.5 U1	0.5 U1	0.5 U1
Sulfate	mg/L	39.1	39.4	108	106	181	178	34.3	35.2	40.9	43.6
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.05 J1	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Total Dissolved Solids	mg/L	350	350	440	450	600	600	380	360 L1	320	310 L1
pH	SU	7.05	7.26	7.18	7.36	6.99	7.17	6.84	7.19	7.68	7.35

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U1: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.

J1: Estimated value. Parameter was detected in concentrations below the reporting limit.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.

P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

L1: The associated laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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

Parameter	Unit	MW-1606S		MW-1701D		MW-1701I		MW-1701S		MW-1702D		MW-1702I		MW-1702S	
		2/14/2022	5/10/2022	2/16/2022	5/11/2022	2/16/2022	5/11/2022	2/16/2022	5/11/2022	2/16/2022	5/10/2022	2/16/2022	5/10/2022	2/16/2022	5/10/2022
Antimony	µg/L	0.04 J1	0.04 J1	0.1 U1	0.1 U1	0.02 J1	0.05 J1	0.06 J1	0.08 J1	0.13	0.07 J1	0.10	0.12	0.04 J1	0.09 J1
Arsenic	µg/L	0.18	0.18	9.82	9.57	7.51	9.66	0.40	0.45	22.9	26.6	75.4	57.1	0.35	0.44
Barium	µg/L	13.9	18.4	61.9	57.9	37.3	35.2	10.0	12.1	195	188	116	110	3.94	4.13
Beryllium	µg/L	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1	0.05 U1
Boron	mg/L	0.019 J1	0.030 J1	0.023 J1	0.018 J1	0.017 J1	0.016 J1	0.015 J1	0.014 J1	0.017 J1	0.019 J1	0.015 J1	0.016 J1	0.028 J1	0.017 J1
Cadmium	µg/L	0.031	0.032	0.021	0.02 U1	0.02 U1	0.009 J1	0.012 J1	0.012 J1	0.047	0.014 J1	0.014 J1	0.013 J1	0.118	0.014 J1
Calcium	mg/L	49.3	47.7	68.6	77.8	64.4	65.2	56.4	60.0	80.7	84.1	76.4	87.1	34.4	28.6
Chloride	mg/L	32.6	33.2	14.0	13.4	14.2	14.8	20.3	22.1	30.8	31.6	28.7	28.6	14.2	13.7
Chromium	µg/L	0.34	0.34	0.12 J1	0.25	0.21	0.27	0.59	0.28	0.40	0.24	0.33	0.26	0.52	0.40
Cobalt	µg/L	0.073	0.112	1.56	1.43	0.845	0.981	0.085	0.056	0.551	0.537	1.70	1.26	0.026	0.021
Combined Radium	pCi/L	0.72	0.77	0.92	0.58	0.7	0.99	0.77	1.23	1.02	1.09	1.64	1.56	1.47	0.71
Fluoride	mg/L	0.50	0.47	0.34	0.35	0.44	0.43	0.40	0.40	0.19	0.19	0.23	0.23	0.62	0.68
Lead	µg/L	0.2 U1	0.09 J1	0.2 U1	0.2 U1	0.2 U1	0.07 J1	0.2 U1	0.2 U1	0.06 J1	0.12 J1	0.05 J1	0.07 J1	0.2 U1	0.2 U1
Lithium	mg/L	0.00880	0.00763	0.00604	0.00566	0.00536	0.00494	0.00446	0.00456	0.00396	0.00366	0.00412	0.00390	0.00152	0.00099
Mercury	µg/L	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1	0.005 U1
Molybdenum	µg/L	1.2	1.1	1.3	1.4	1.1	1.1	0.7	0.7	1.9	2.0	2.0	2.0	1.5	1.0
Selenium	µg/L	2.71	2.48	0.5 U1	0.5 U1	0.5 U1	0.5 U1	0.47 J1	0.52	0.5 U1	0.5 U1	0.5 U1	0.5 U1	2.65	1.92
Sulfate	mg/L	44.3	42.7	39.4	38.9	34.7	34.8	18.0	17.3	38.0	39.8	42.9	44.9	20.6	19.1
Thallium	µg/L	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1	0.2 U1
Total Dissolved Solids	mg/L	440	420 L1	360	350 L1	340	330 L1	350	320 L1	390	390 L1	390	390 L1	270	260 L1
pH	SU	6.92	6.94	7.1	7.12	7.15	7.22	7.31	7.25	6.87	7.09	7.05	7.14	7.2	7.1

Notes:

µg/L: micrograms per liter

mg/L: milligrams per liter

pCi/L: picocuries per liter

SU: standard unit

U1: Non-detect value. For statistical analysis, parameters which were not detected were replaced with the reporting limit.

J1: Estimated value. Parameter was detected in concentrations below the reporting limit.

M1: The associated matrix spike (MS) or matrix spike duplicate (MSD) recovery was outside acceptance limits.

P2: The precision on the laboratory control sample duplicate (LCSD) was above acceptance limits.

P3: The precision on the matrix spike duplicate (MSD) was above acceptance limits.

L1: The associated laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) recovery was outside acceptance limits.

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

*Geosyntec Consultants, Inc.*

Constituent Name	MCL	CCR Rule-Specified	Calculated UTL	GWPS
Antimony, Total (mg/L)	0.00600		0.000440	0.00600
Arsenic, Total (mg/L)	0.0100		0.0727	0.0727
Barium, Total (mg/L)	2.00		0.997	2.00
Beryllium, Total (mg/L)	0.00400		0.000106	0.00400
Cadmium, Total (mg/L)	0.00500		0.000280	0.00500
Chromium, Total (mg/L)	0.100		0.00205	0.100
Cobalt, Total (mg/L)	n/a	0.00600	0.00334	0.00600
Combined Radium, Total (pCi/L)	5.00		2.47	5.00
Fluoride, Total (mg/L)	4.00		0.700	4.00
Lead, Total (mg/L)	n/a	0.0150	0.00497	0.0150
Lithium, Total (mg/L)	n/a	0.0400	0.0380	0.0400
Mercury, Total (mg/L)	0.00200		0.00000500	0.00200
Molybdenum, Total (mg/L)	n/a	0.100	0.00867	0.100
Selenium, Total (mg/L)	0.0500		0.00380	0.0500
Thallium, Total (mg/L)	0.00200		0.000200	0.00200

Notes:

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residual

GWPS = Groundwater Protection Standard

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

Grey cells indicate the GWPS is based on the calculated UTL, which is higher than the MCL or CCR Rule-specified value.

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

Analyte	Unit	Description	MW-1002	MW-1602D	MW-1602I	MW-1603D	MW-1603I	MW-1603S	MW-1604D	MW-1604I
			5/10/2022	5/11/2022	5/11/2022	5/10/2022	5/10/2022	5/10/2022	5/10/2022	5/11/2022
Boron	mg/L	Interwell Background Value (UPL)	0.208							
		Analytical Result	1.74	0.048	0.043	0.021	0.032	1.59	0.013	0.092
Calcium	mg/L	Intrawell Background Value (UPL)	85.6	82.9	90.9	97.2	105	85.0	77.6	89.2
		Analytical Result	47.4	76.0	81.0	88.9	80.8	81.9	71.7	64.0
Chloride	mg/L	Interwell Background Value (UPL)	46.4							
		Analytical Result	61.3	66.5	24.0	29.1	33.4	36.9	15.1	39.2
Fluoride	mg/L	Interwell Background Value (UPL)	0.700							
		Analytical Result	0.96	0.34	0.29	0.28	0.42	0.81	0.27	0.38
pH	SU	Intrawell Background Value (UPL)	8.0	8.2	7.9	7.9	8.1	7.7	7.8	8.1
		Intrawell Background Value (LPL)	5.6	6.3	6.6	6.3	6.6	6.2	6.4	6.6
		Analytical Result	7.4	7.5	7.5	7.2	7.3	7.1	7.4	7.5
Sulfate	mg/L	Interwell Background Value (UPL)	76.0							
		Analytical Result	173	24.7	58.7	36.2	66.3	296	19.8	81.8
Total Dissolved Solids	mg/L	Interwell Background Value (UPL)	454							
		Analytical Result	470	430	380	390	440	600	320	400

Analyte	Unit	Description	MW-1604S	MW-1605D	MW-1605I	MW-1605S	MW-1606D	MW-1606I	MW-1606S	
			5/11/2022	5/11/2022	5/11/2022	5/11/2022	5/10/2022	5/10/2022	5/10/2022	
Boron	mg/L	Interwell Background Value (UPL)	0.208							
		Analytical Result	0.665	0.009	0.056	0.598	0.016	0.016	0.030	
Calcium	mg/L	Intrawell Background Value (UPL)	118	97.0	107	91.4	91.2	91.9	76.1	
		Analytical Result	81.6	78.6	76.5	87.3	85.4	66.8	47.7	
Chloride	mg/L	Interwell Background Value (UPL)	46.4							
		Analytical Result	76.3	23.2	37.1	50.5	28.4	19.5	33.2	
Fluoride	mg/L	Interwell Background Value (UPL)	0.700							
		Analytical Result	0.90	0.21	0.22	0.55	0.18	0.22	0.47	
pH	SU	Intrawell Background Value (UPL)	8.2	7.5	7.6	7.6	8.4	8.5	7.9	
		Intrawell Background Value (LPL)	6.6	6.7	6.7	6.6	6.9	6.3	6.7	
		Analytical Result	7.5	7.3	7.4	7.2	7.2	7.4	6.9	
Sulfate	mg/L	Interwell Background Value (UPL)	76.0							
		Analytical Result	131	39.4	106	178	35.2	43.6	42.7	
Total Dissolved Solids	mg/L	Interwell Background Value (UPL)	454							
		Analytical Result	520	350	450	600	360	310	420	

Notes:

UPL: Upper prediction limit

LPL: Lower prediction limit

**Bold values exceed the background value.**

Background values are shaded gray.

## **SECTION 3**

### **REFERENCES**

Geosyntec Consultants (Geosyntec). 2020. Statistical Analysis Plan – Rockport Plant. October 2020.

Geosyntec. 2022. Statistical Analysis Summary – Bottom Ash Pond, Rockport Plant, Rockport, Indiana. March 3, 2022.

# ATTACHMENT A

Certification by Qualified Professional Engineer



**Certification by Qualified Professional Engineer**

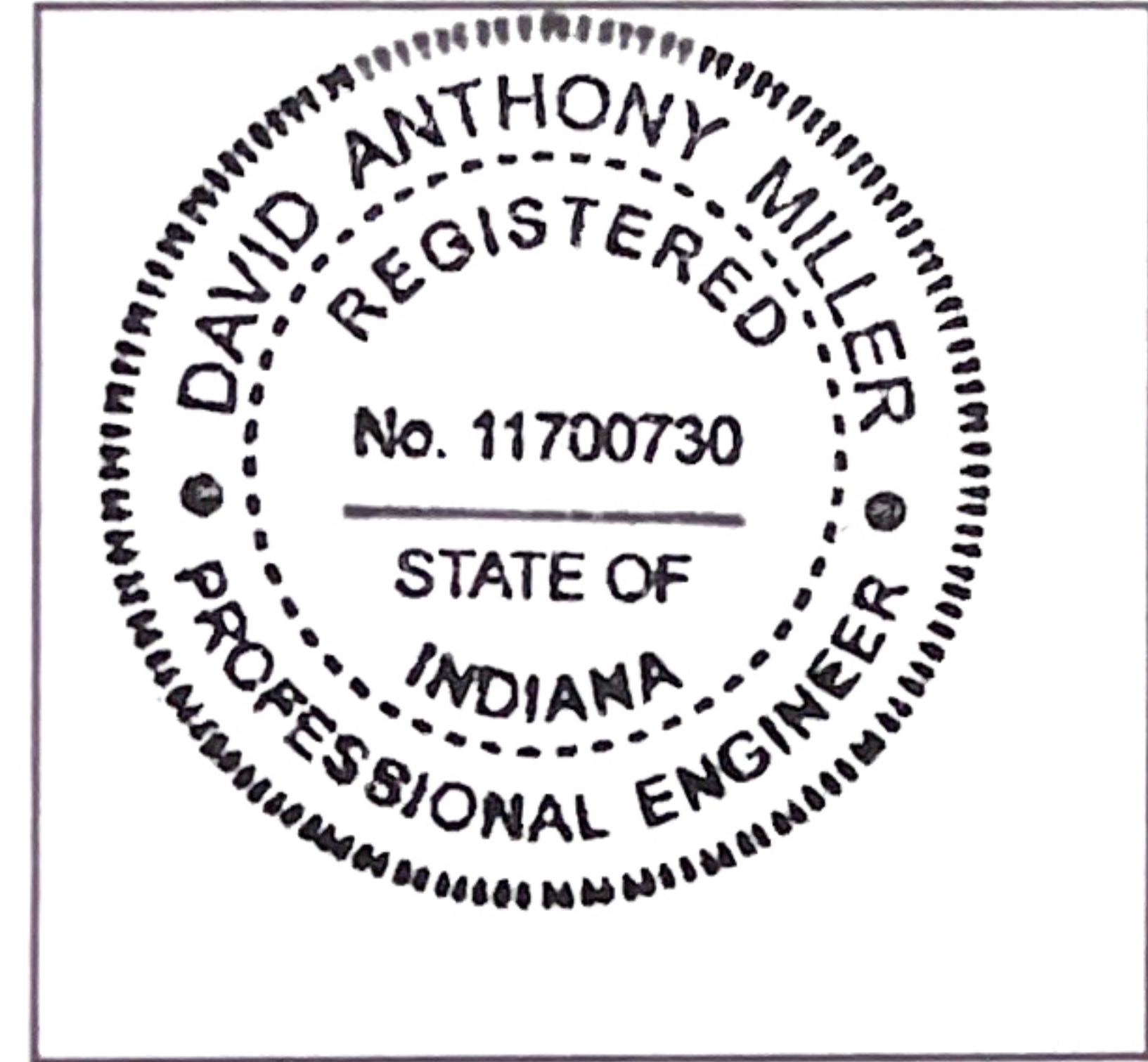
I certify that the selected and above described statistical method is appropriate for evaluating the groundwater monitoring data for the Rockport Bottom Ash Pond CCR management area and that the requirements of 40 CFR 257.93(f) have been met.

DAVID ANTHONY MILLER

Printed Name of Licensed Professional Engineer

David Anthony Miller

Signature



11700730

License Number

INDIANA

Licensing State

08.30.22

Date

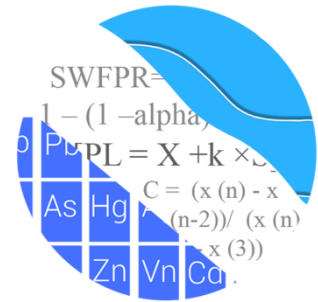


**ATTACHMENT B**  
**Statistical Analysis Output**

# GROUNDWATER STATS CONSULTING

July 26, 2022

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



Re: Rockport Bottom Ash Pond  
May 2022 Assessment Monitoring Analysis

Dear Ms. Kreinberg,

Groundwater Stats Consulting (GSC), formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical evaluation of groundwater data for the May 2022 Assessment Monitoring event at 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 United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at the site for the Coal Combustion Residuals (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 to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. 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 IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at both upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs.

Due to varying detection limits in background data sets resulting from improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects. In some cases, the reporting limit provided by the laboratory contained varying limits for a given parameter; therefore, the substitution may differ from well to well. This generally gives the most conservative limit in each case. However, for the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

### **Background Screening Summary – Conducted in December 2019**

Background data were screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits. During the previous screening, Tukey's outlier test identified several values that were flagged accordingly in the database. However, several values that were not identified as outliers through Tukey's test were flagged because they were considerably higher than the other measurements and did not appear to represent the population at their respective well. These values were deselected prior to the construction of upper tolerance limits and confidence intervals. 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.

## **Background Update – November 2021**

During the November 2021 sample event, proposed background data from upgradient wells were screened as described below prior to construction of upper tolerance limits for Appendix IV constituents. These limits are compared to the Maximum Contaminant Levels (MCLs) for the purpose of establishing Groundwater Protection Standards (GWPS) which are updated annually.

### Outlier Analysis

Background (upgradient) data through November 2021 were screened with visual screening for any new potential outliers or extreme trending patterns for Appendix IV parameters that would lead to artificially elevated statistical limits. Data at downgradient wells are periodically screened for anomalous values resulting from sampling or analytical errors. High outliers are 'cautiously' flagged in the downgradient wells and only when they are clearly much different from the rest of the data. This is intended to be a regulatory conservative approach in that it will reduce the variance and thus reduce the width of parametric confidence intervals; although it will also reduce the mean and thus lower the entire interval. The intent is to better represent the actual downgradient mean. A high value for cobalt in upgradient well MW-1600S was flagged and no new values were flagged as outliers among downgradient wells. A discussion of outliers was included with the previous report and a list of flagged values follows this report (Figure C).

### Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV parameters through November 2021 (Figure D). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution and 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. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

### Groundwater Protection Standards

These background limits were compared to the MCLs as shown in the GWPS table following this letter to determine the highest limit for use as the GWPS in the confidence interval comparisons (Figure E). GWPS will be updated during Fall 2022.

## Evaluation of Appendix IV Parameters – May 2022

Confidence intervals were then constructed with data through May 2022 on downgradient wells for each of the Appendix IV parameters using the highest limit of the MCL, CCR-Rule specified levels, or background limit as the GWPS as discussed above (Figure F). Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. When a confidence interval exceeds the GWPS, a statistically significant level (SSL) is identified. No confidence interval 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,



Abdul Diane  
Groundwater Analyst



Andrew Collins  
Project Manager

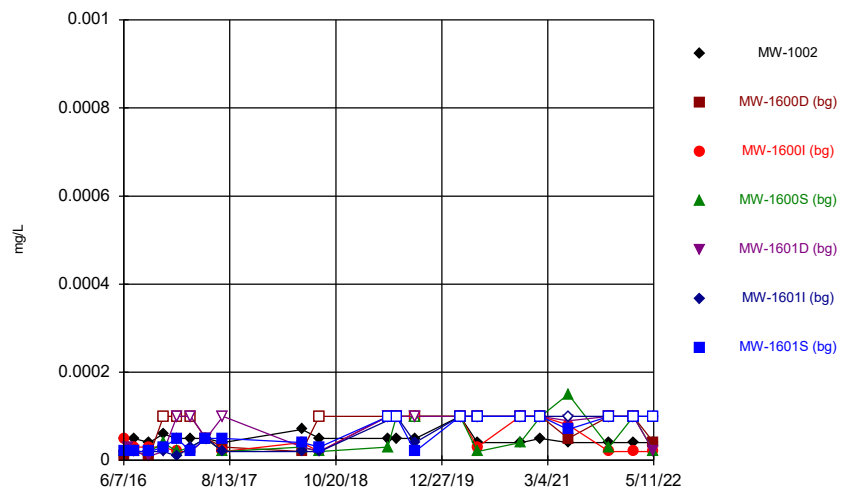
## 100% Non-Detects

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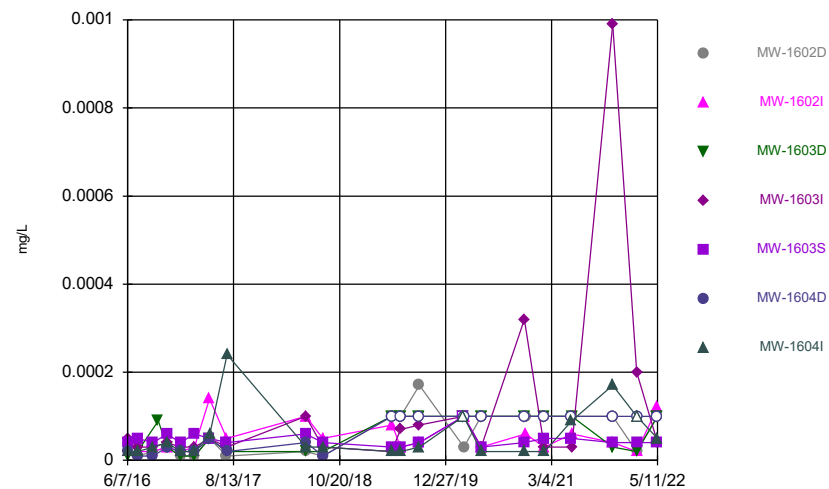
No constituent/well pairs were deselected due to 100% NDs. If this is not the expected result, try selecting all nodes before running this operation.

### Time Series



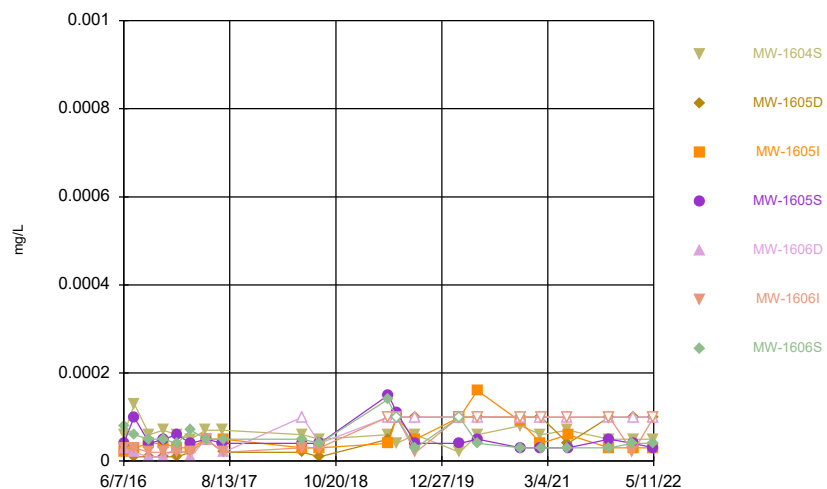
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### Time Series



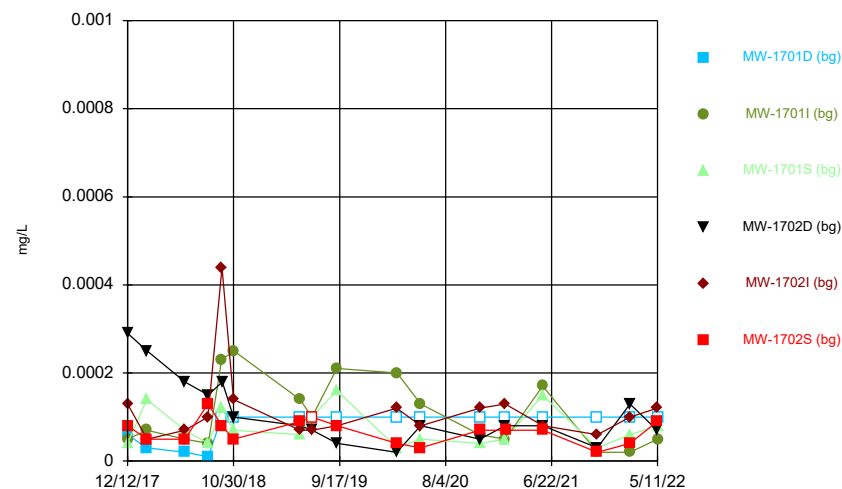
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### Time Series



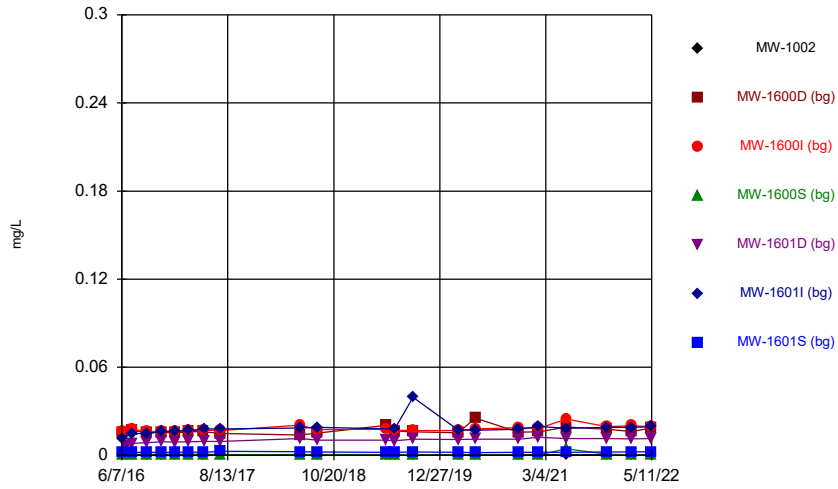
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### Time Series



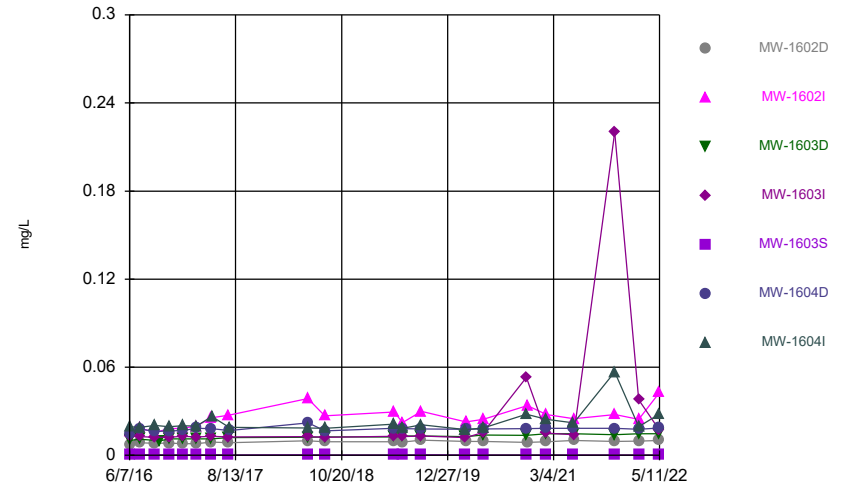
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Time Series



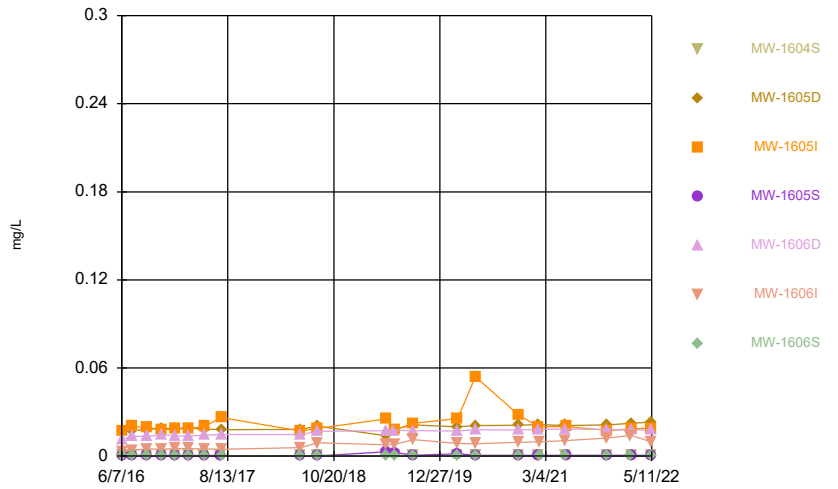
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Time Series



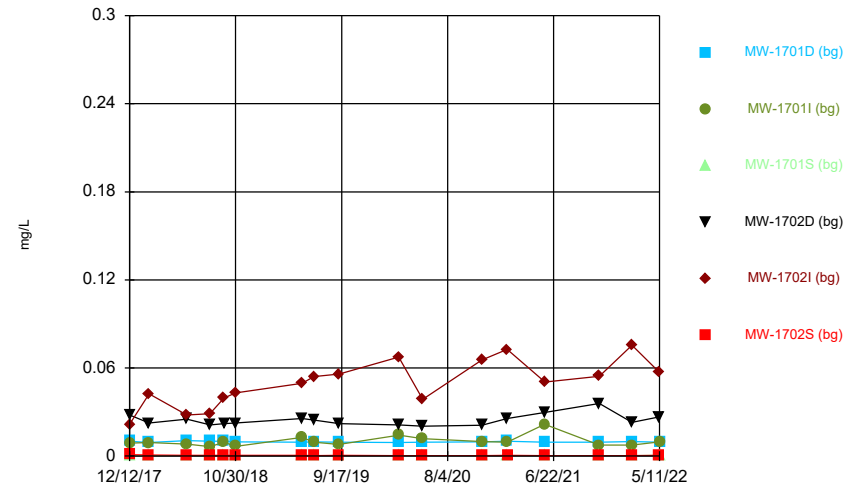
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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Time Series



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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

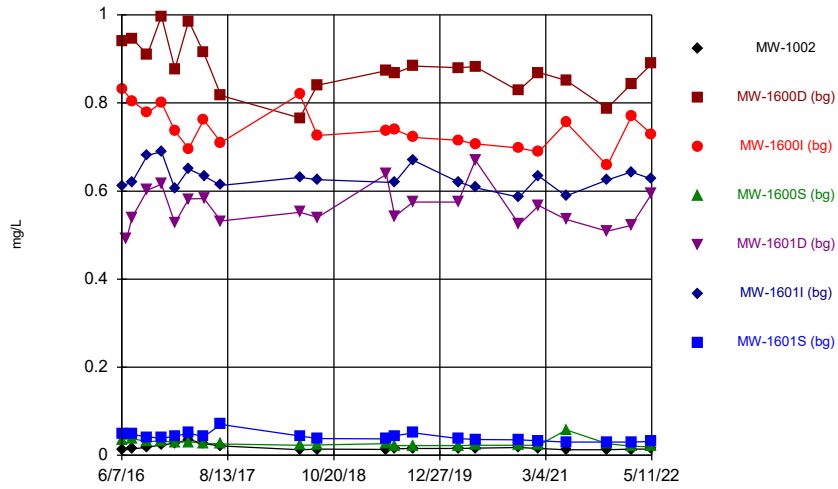
Time Series



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Rockport BAP Client: Geosyntec Data: Rockport\_BAP

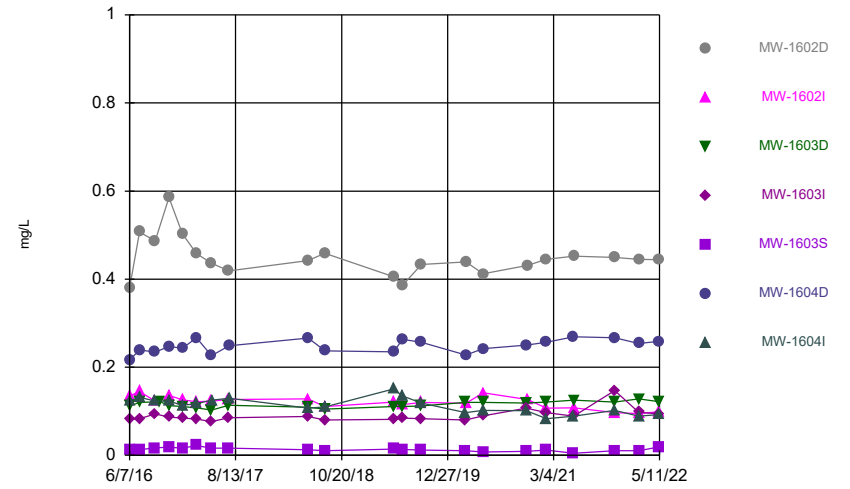


Time Series



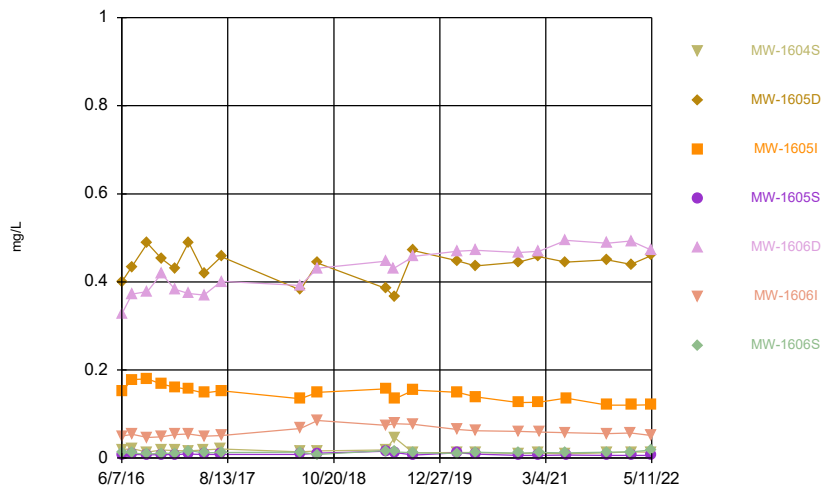
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Time Series



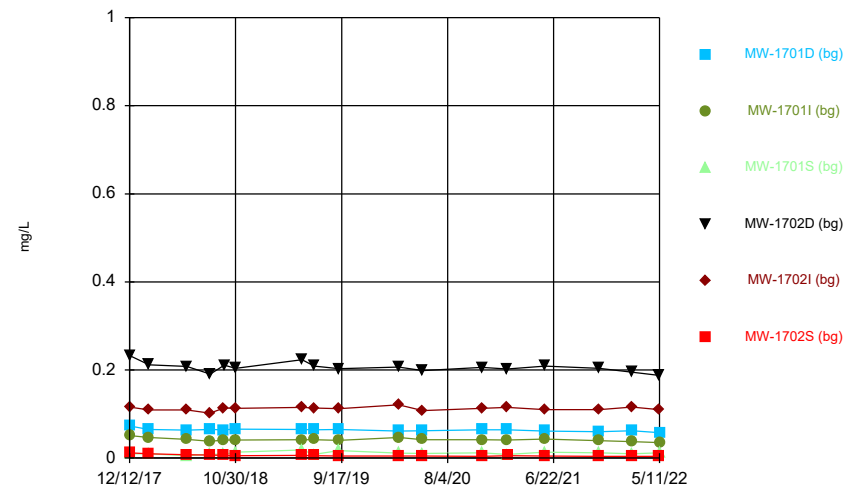
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Time Series



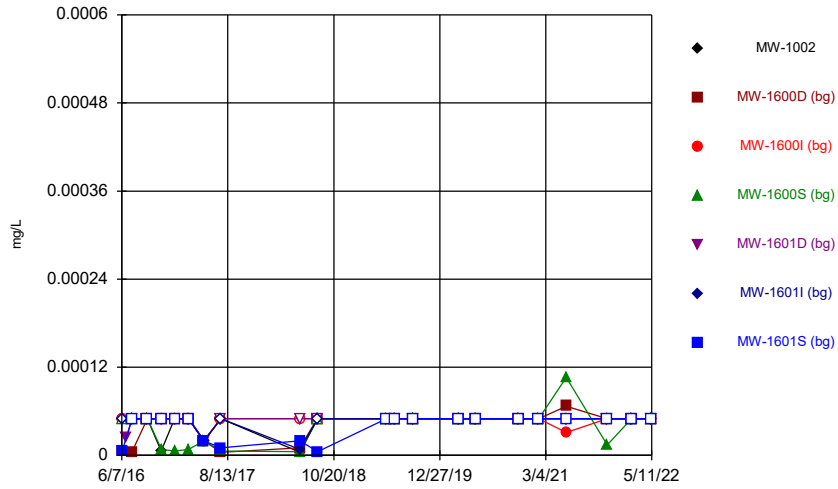
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Time Series



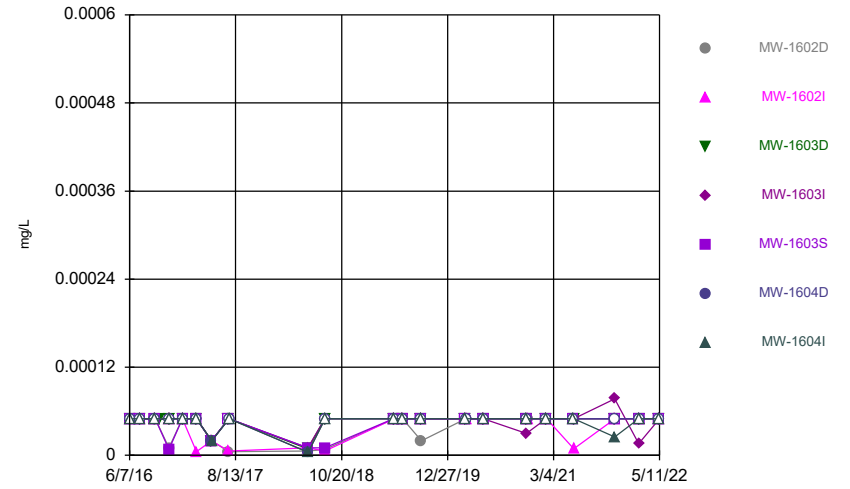
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Time Series



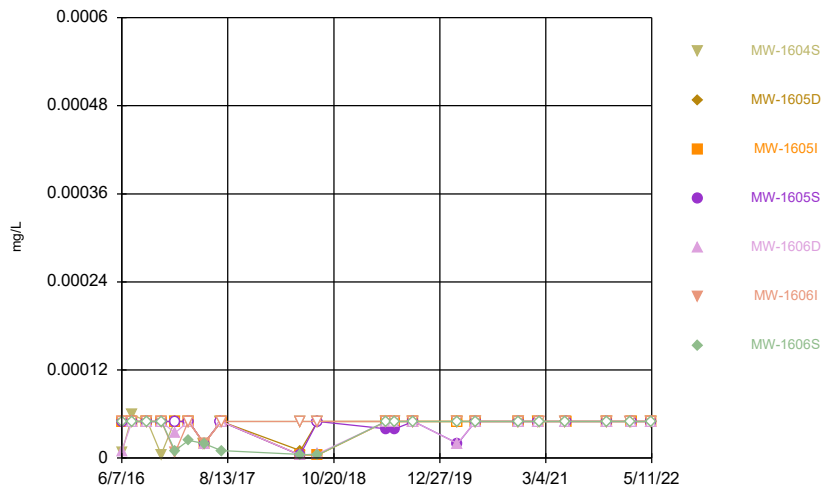
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Time Series



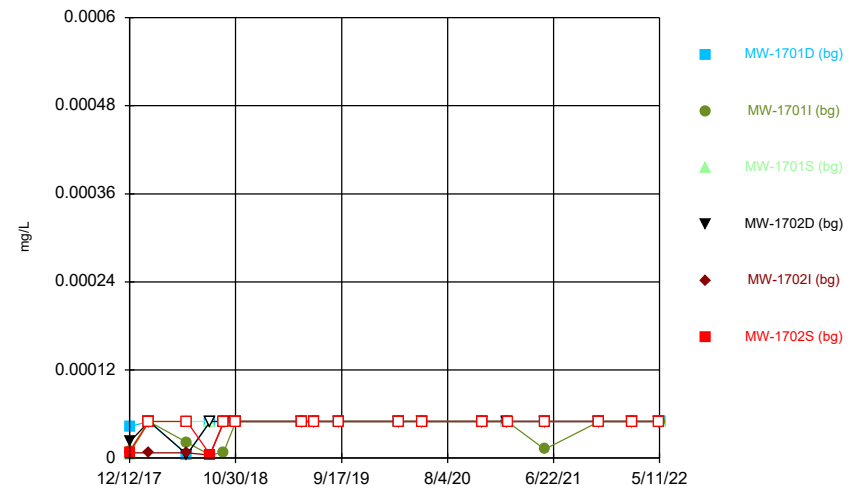
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Time Series



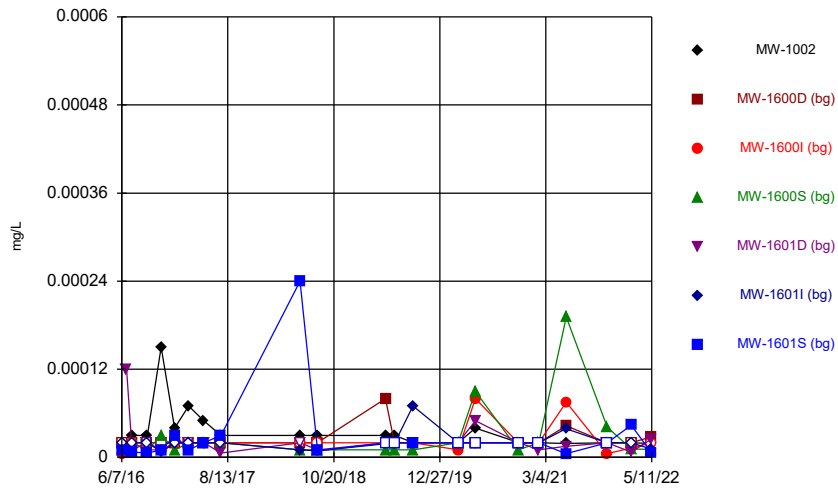
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Time Series



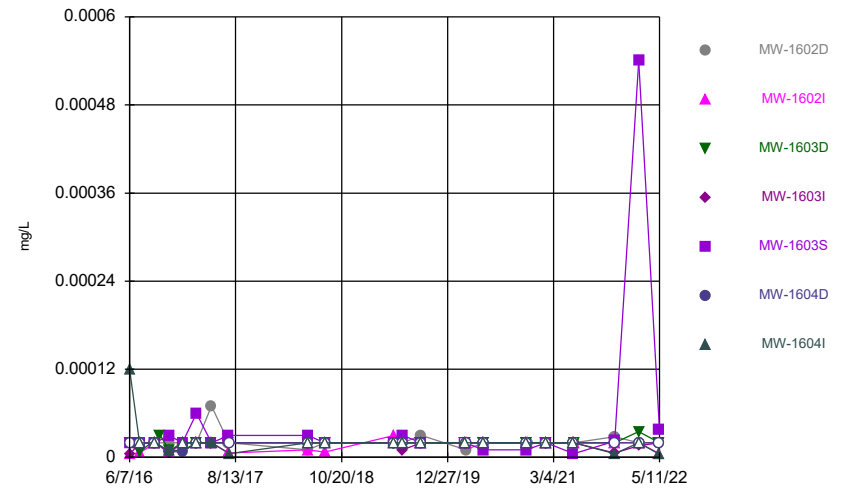
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### Time Series



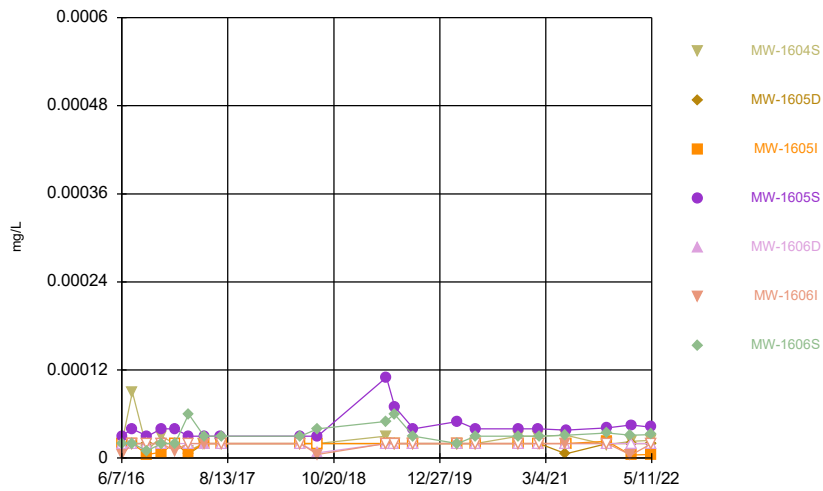
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### Time Series



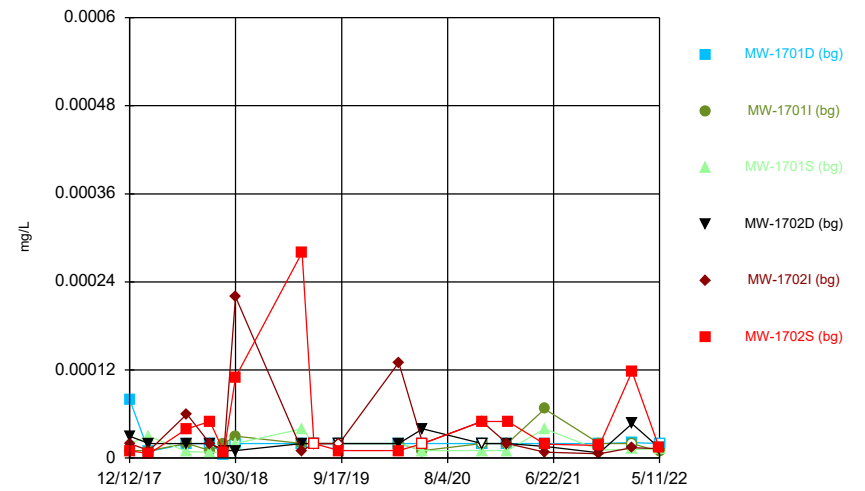
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### Time Series



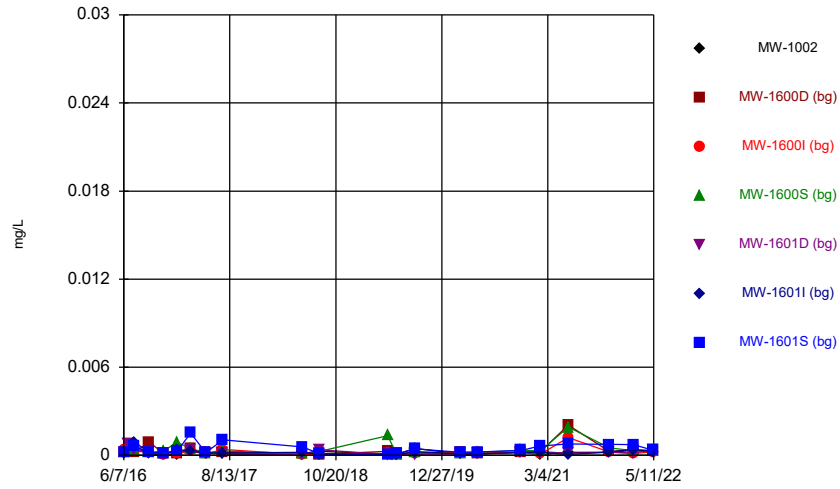
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### Time Series



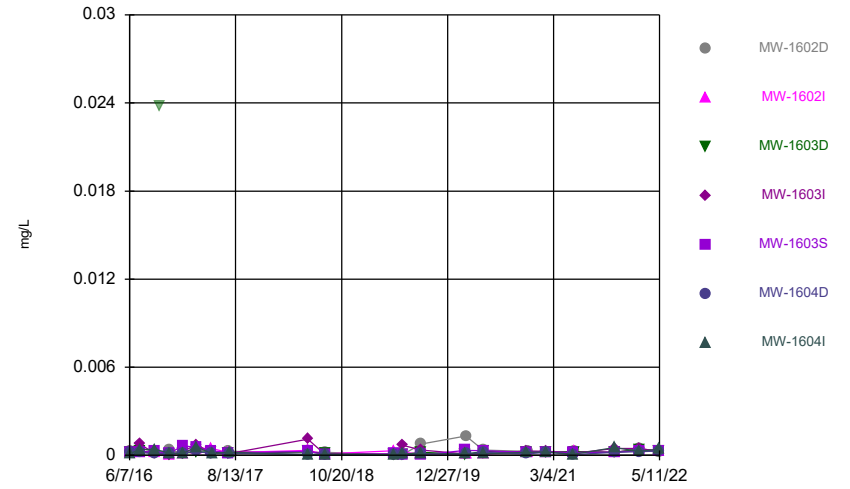
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### Time Series



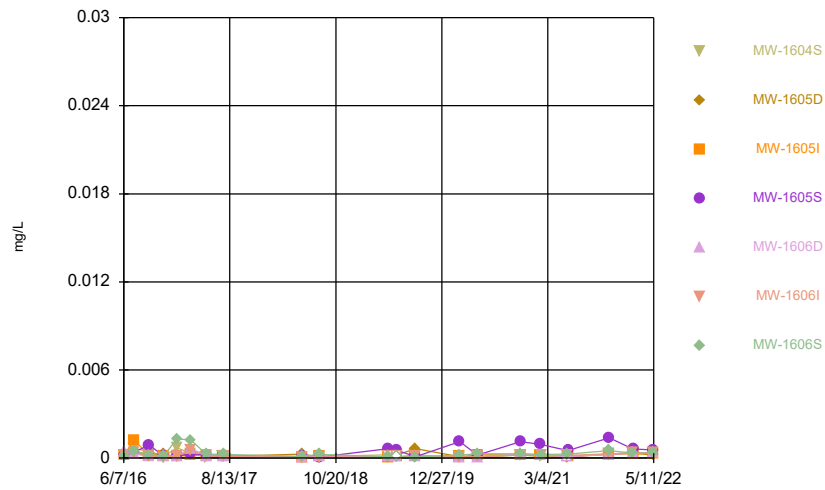
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### Time Series



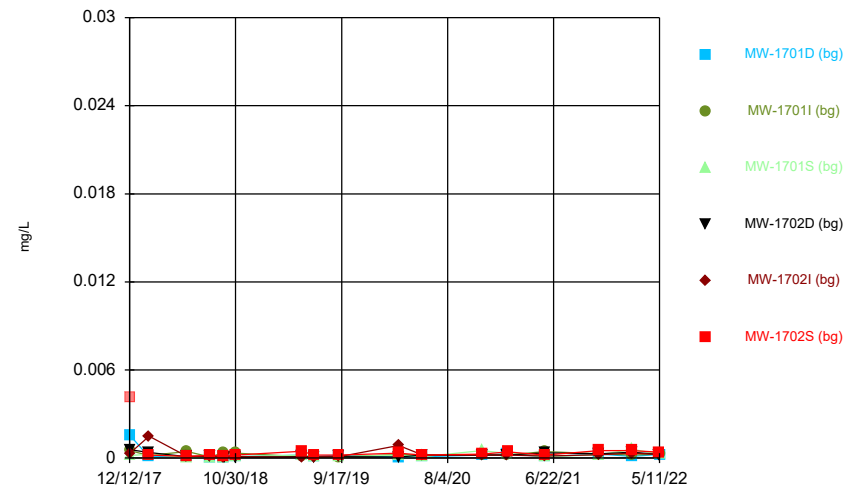
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### Time Series



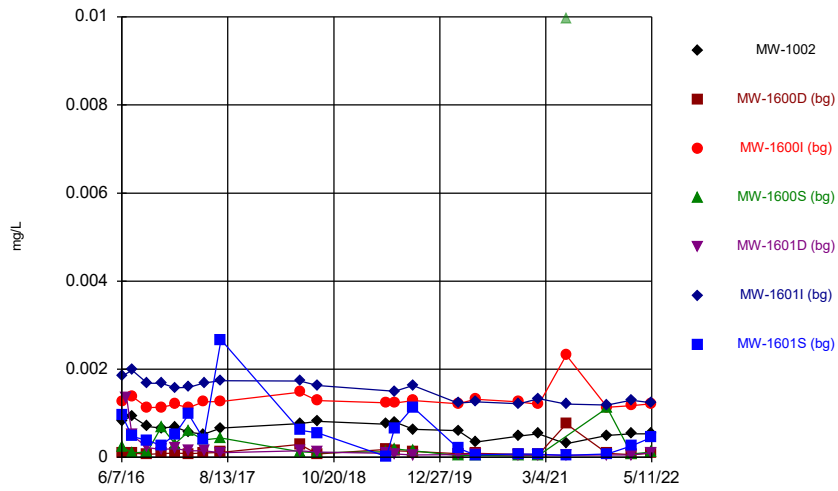
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### Time Series



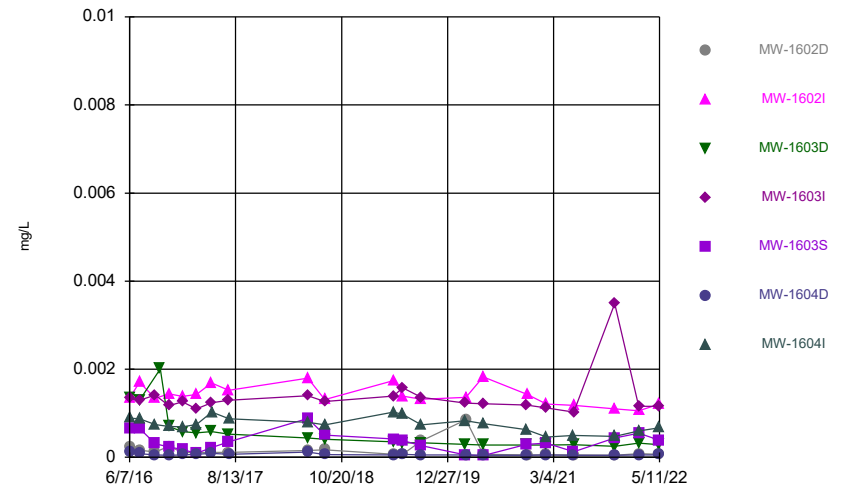
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Time Series



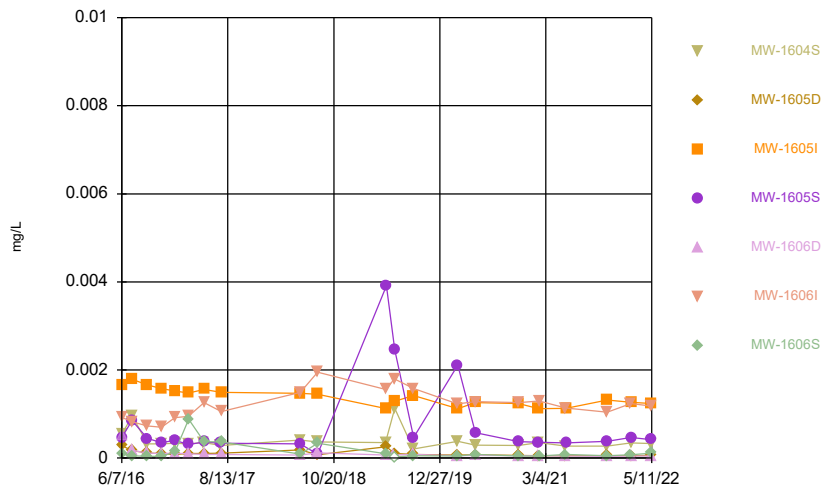
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Time Series



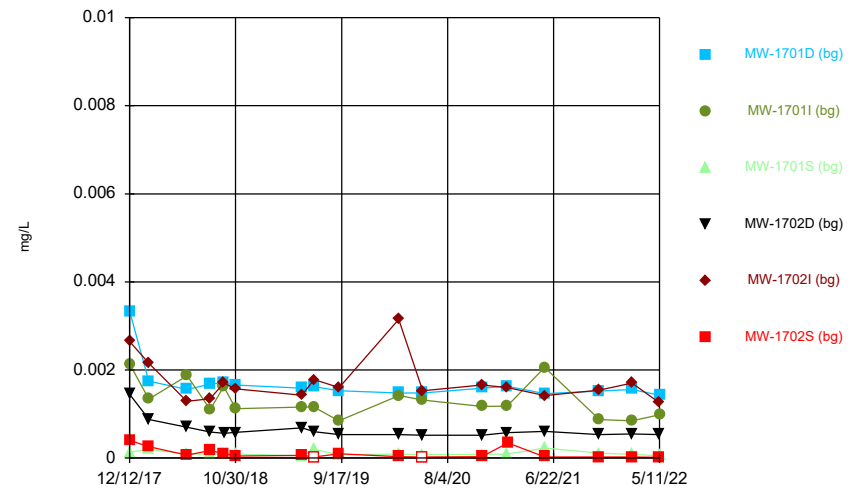
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Time Series



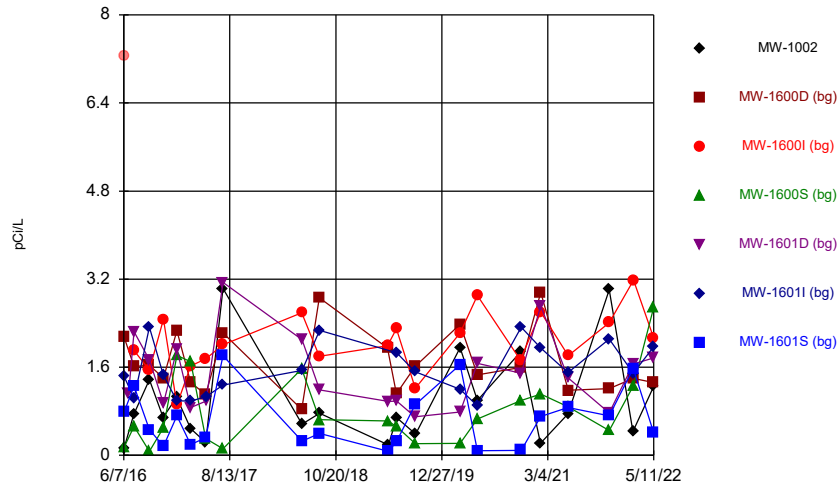
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Time Series



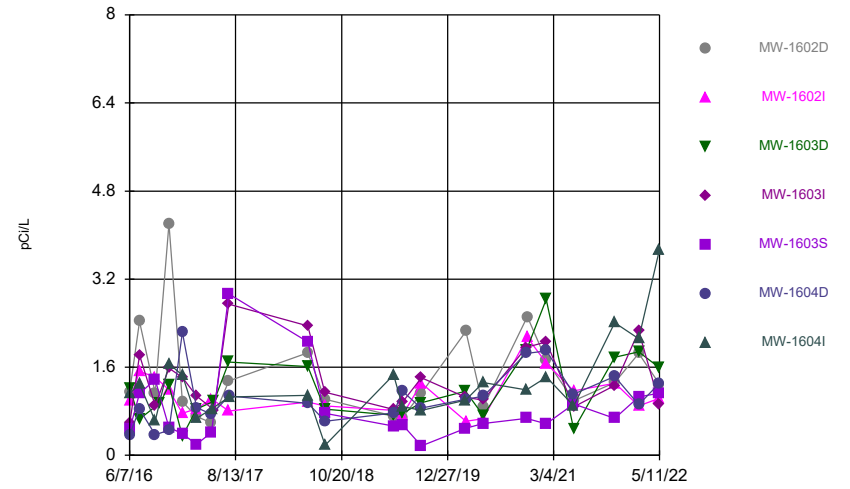
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Time Series



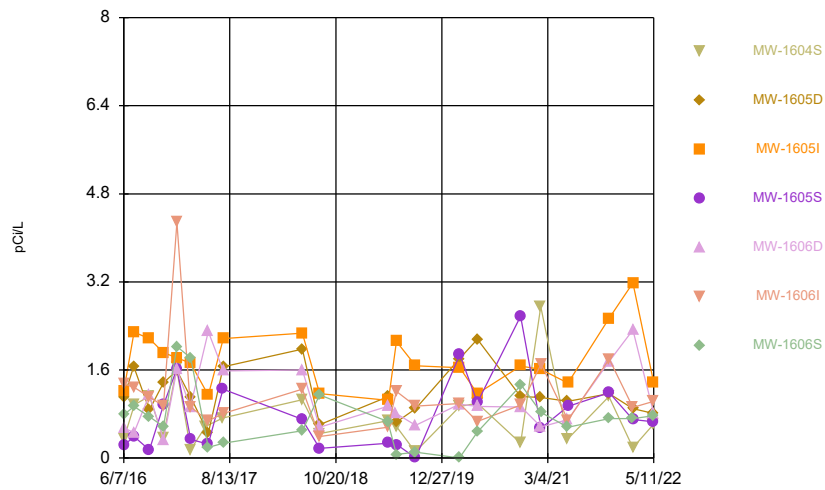
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Time Series



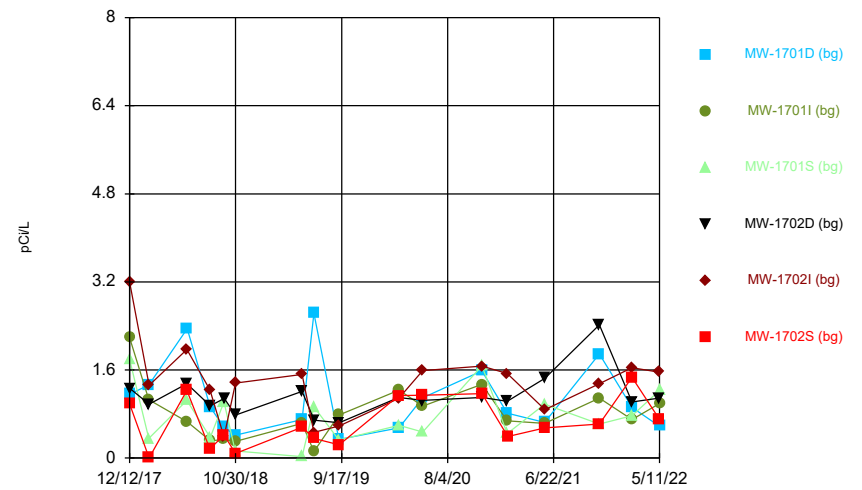
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Time Series



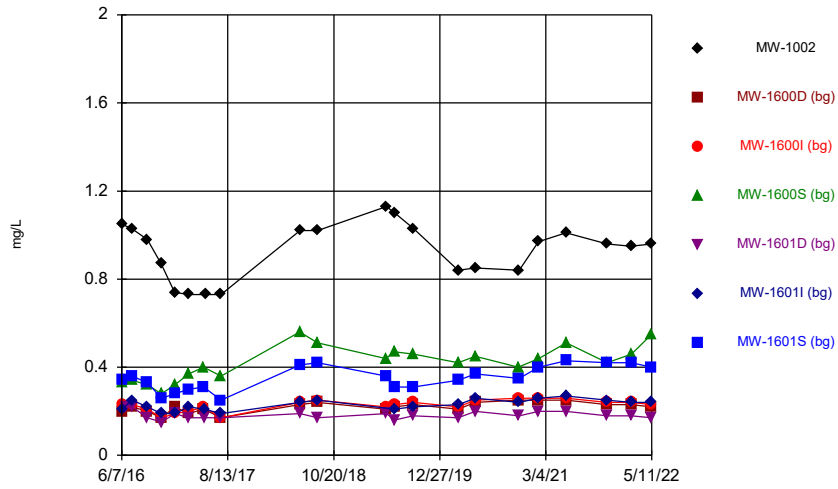
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Time Series



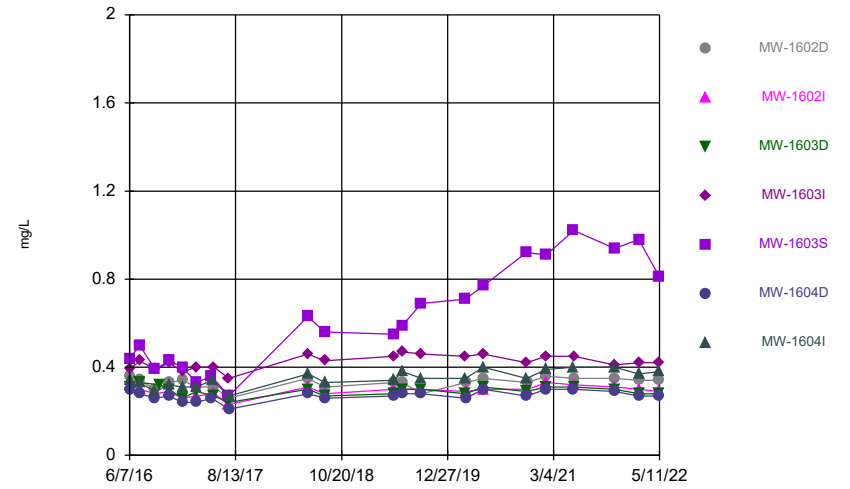
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Time Series



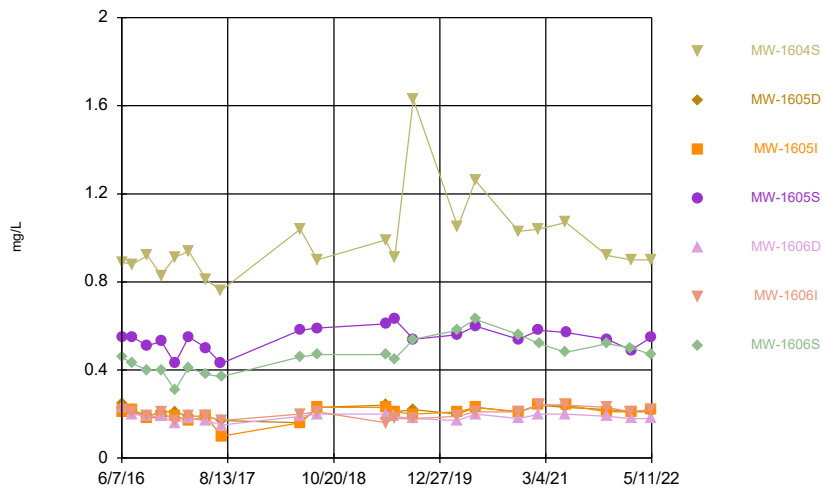
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Time Series



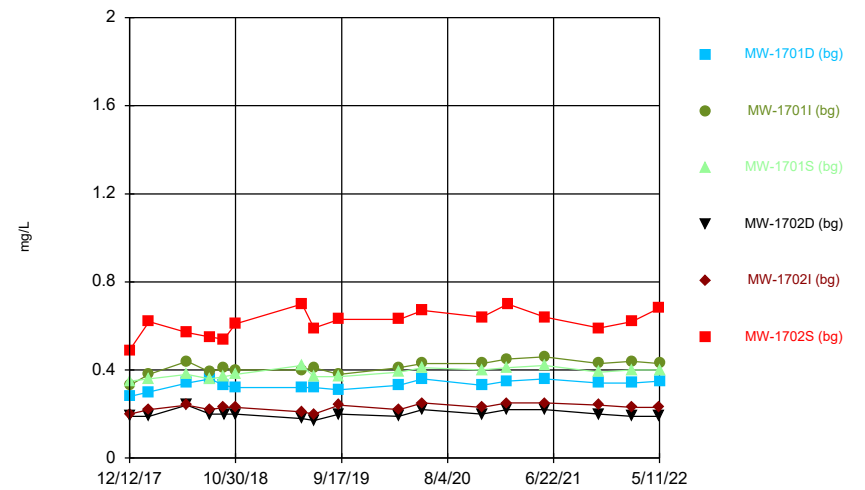
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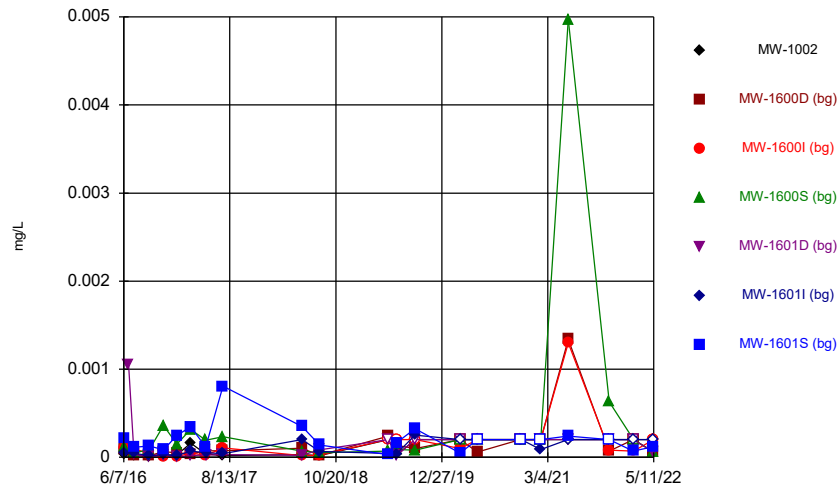
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Time Series



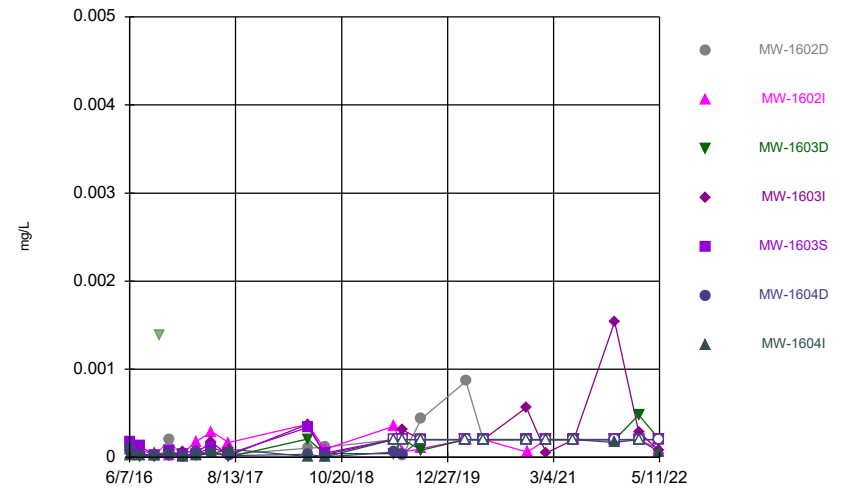
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### Time Series



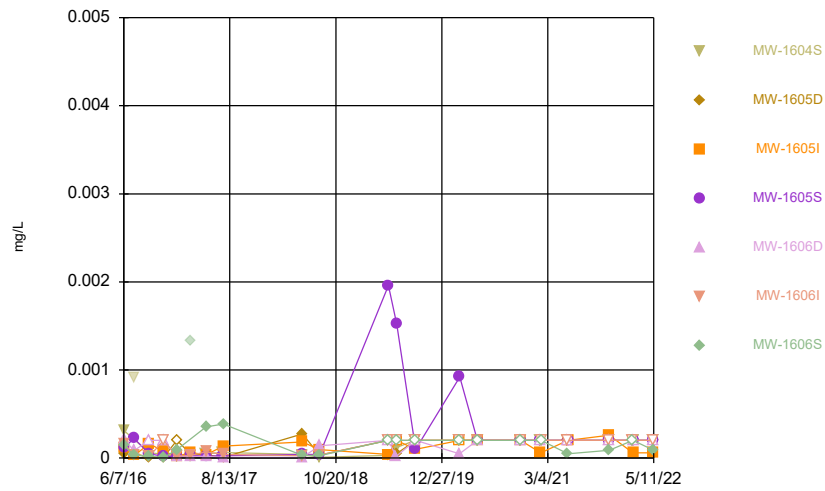
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### Time Series



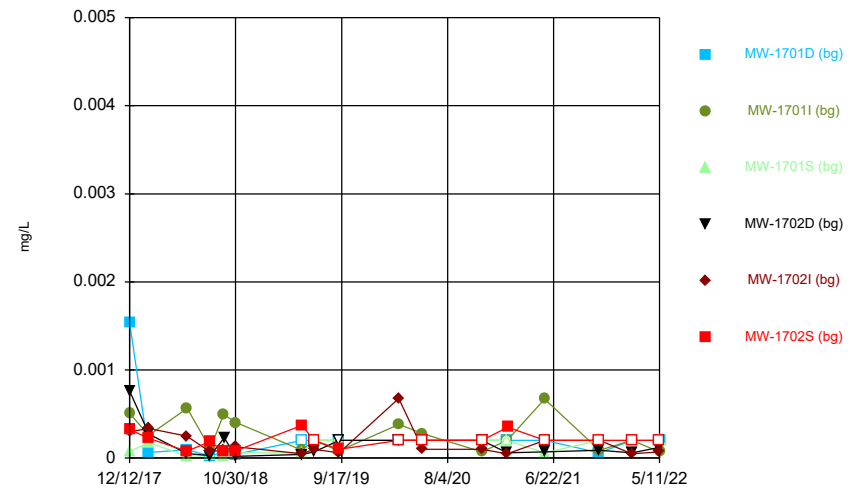
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### Time Series



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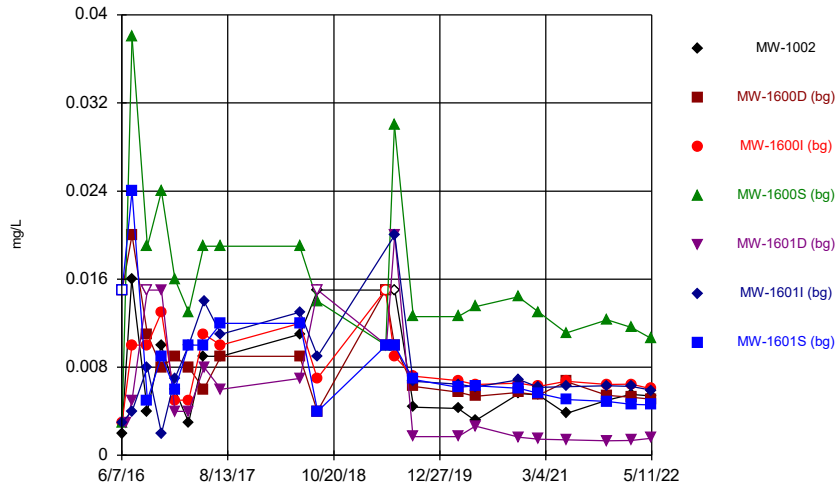
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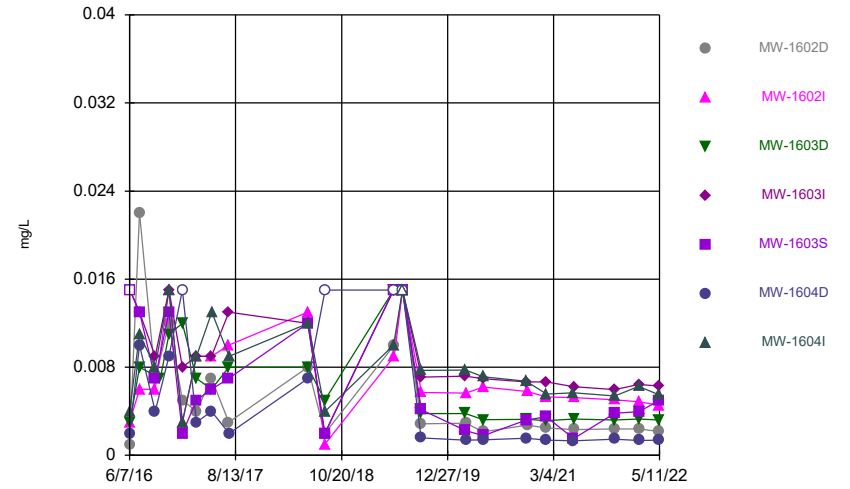


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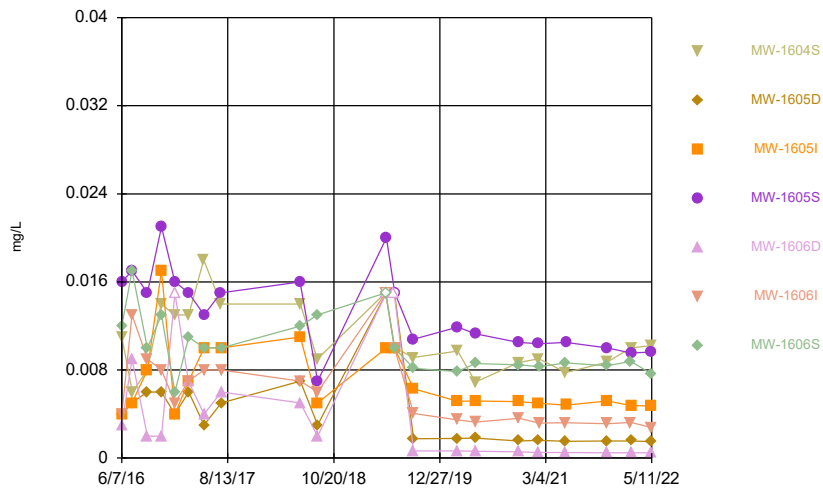
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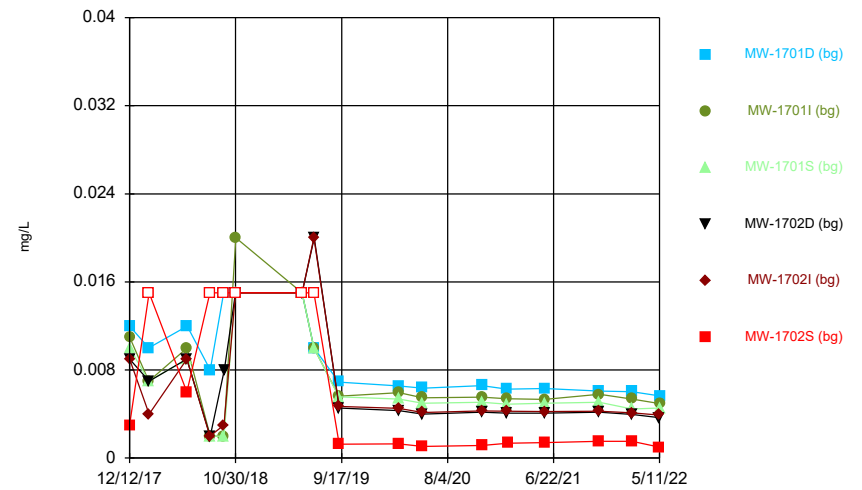
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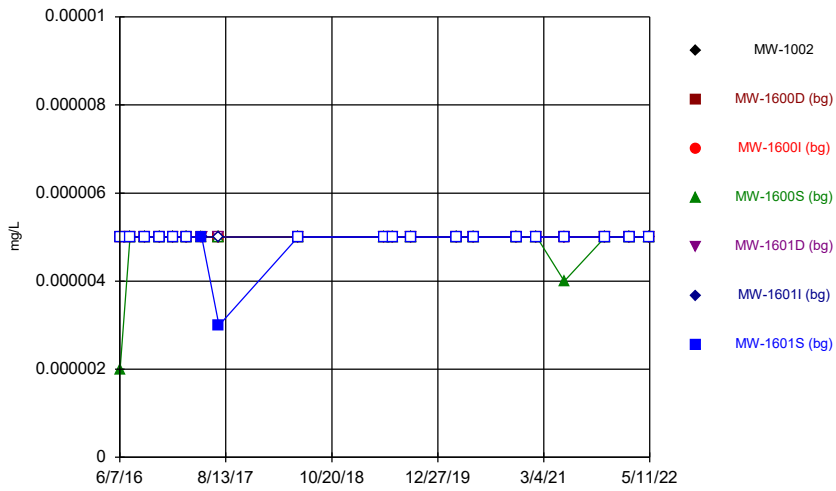
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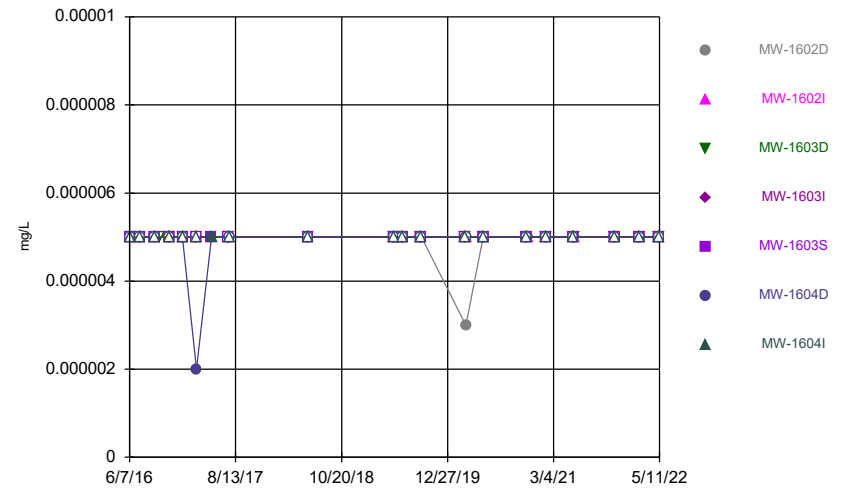
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### Time Series



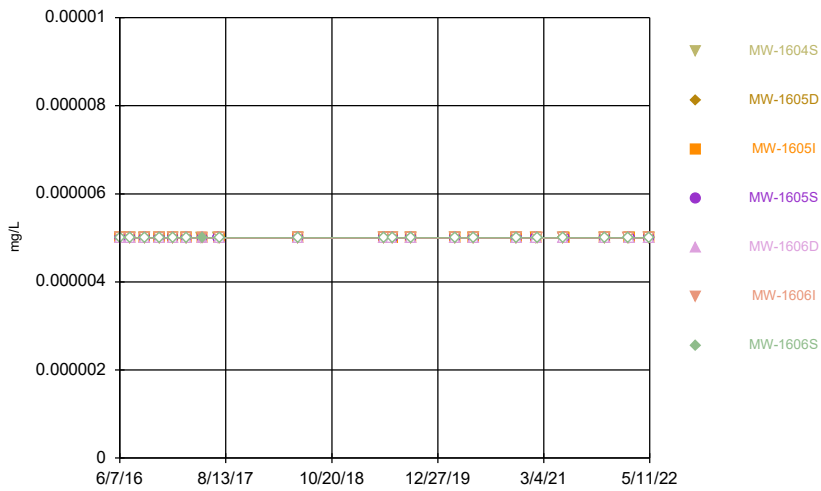
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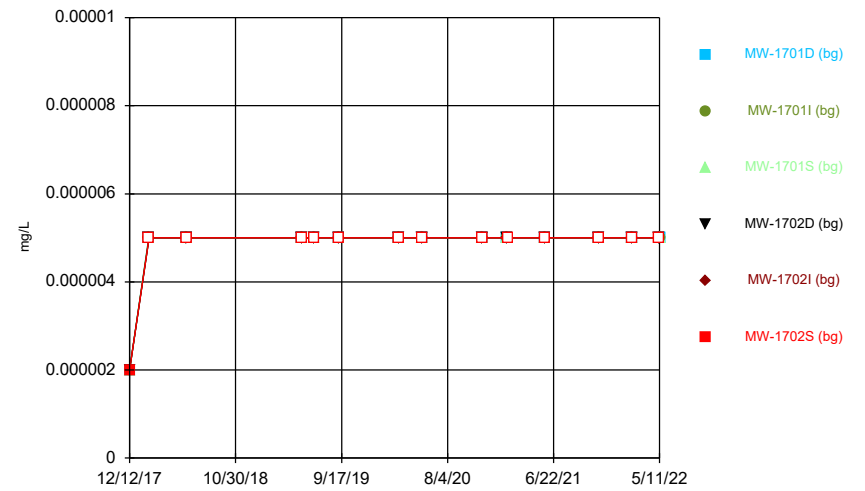
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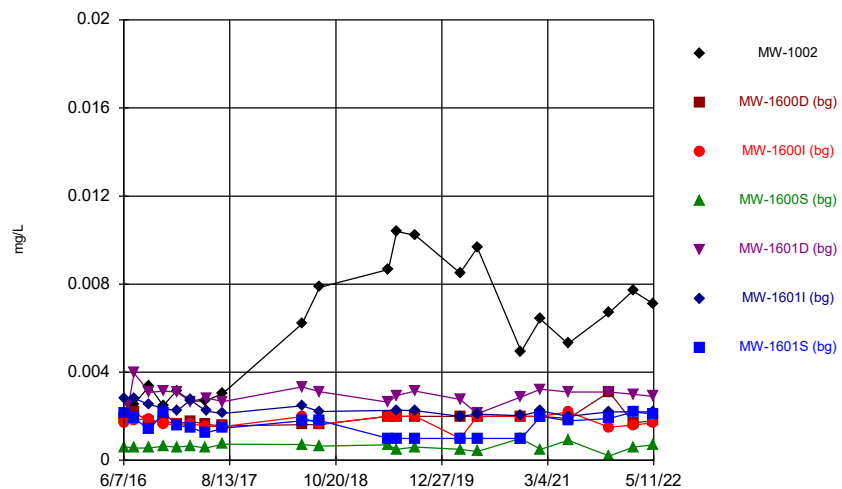
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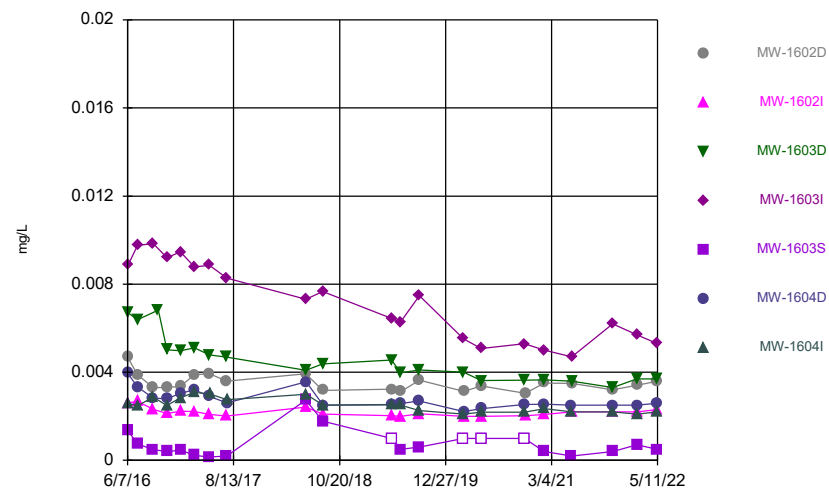
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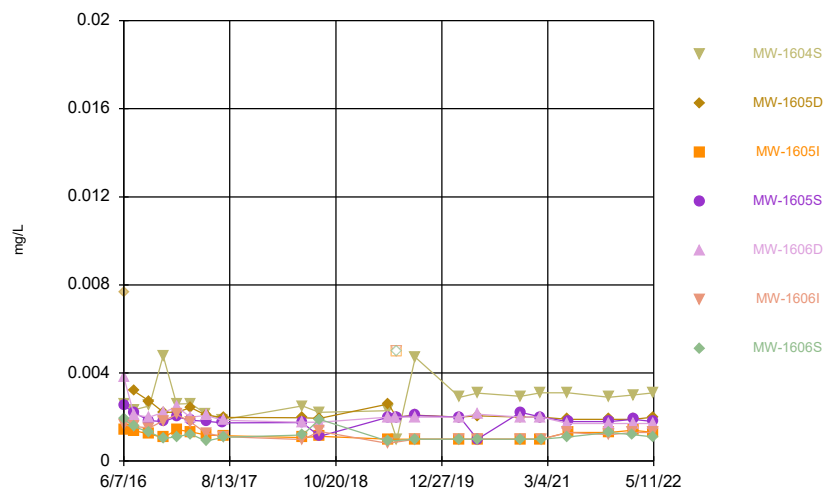
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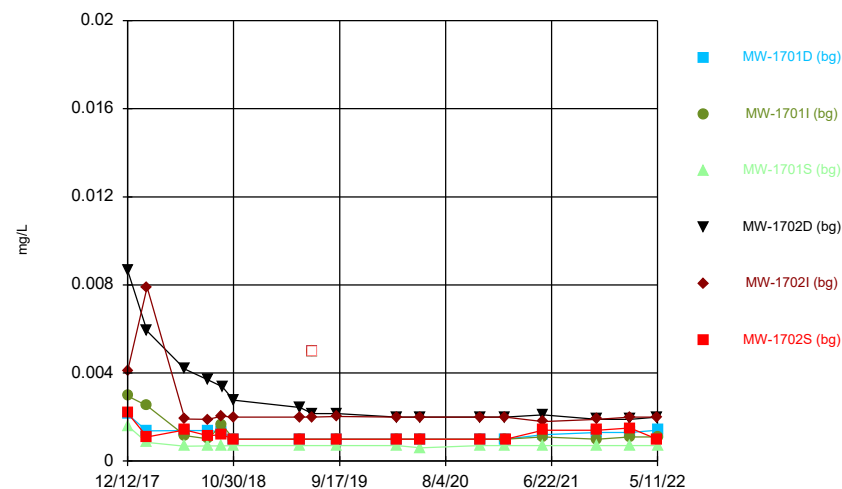
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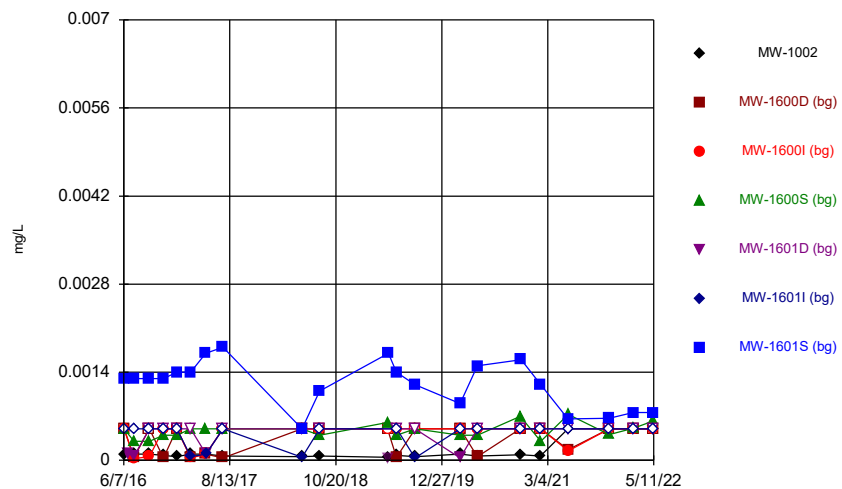
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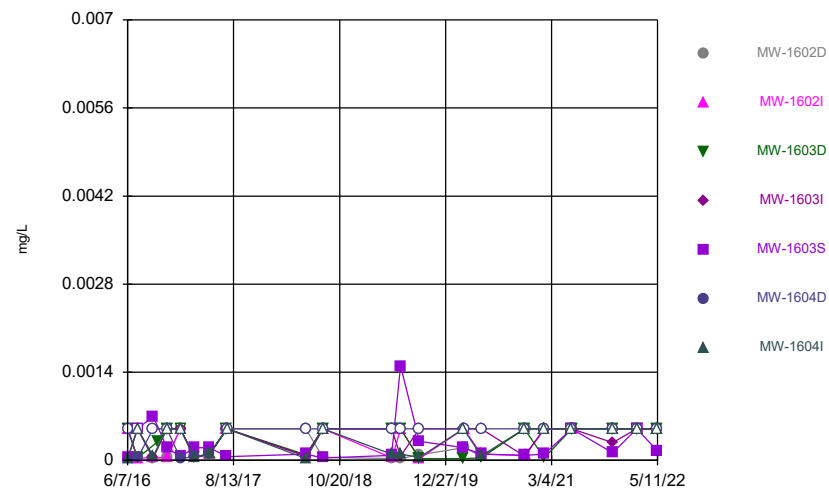
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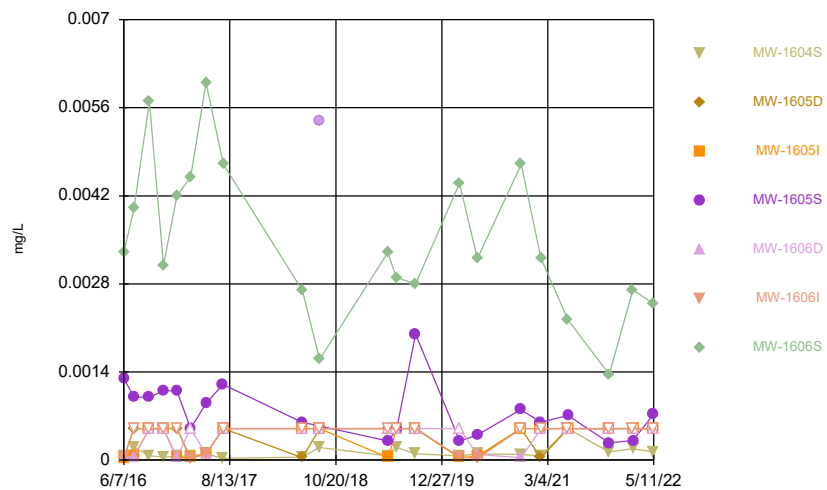
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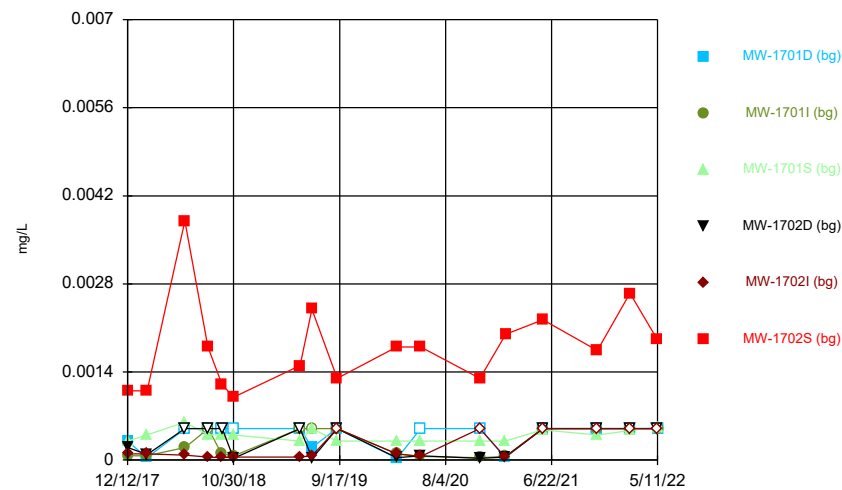
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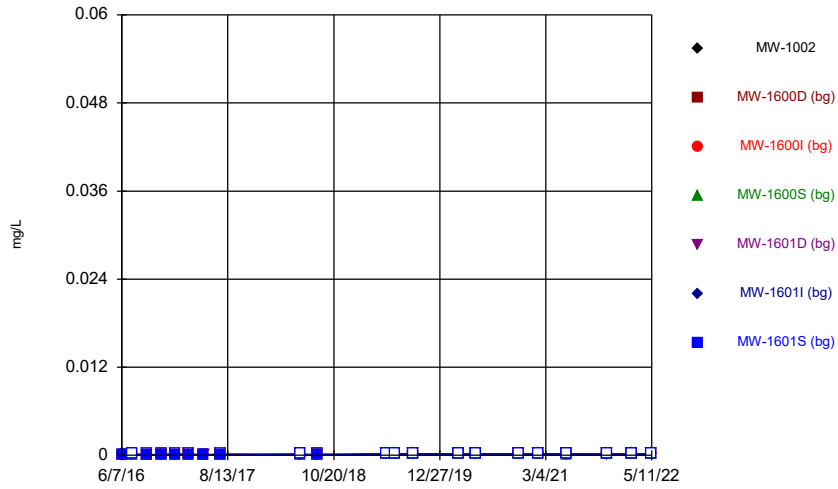
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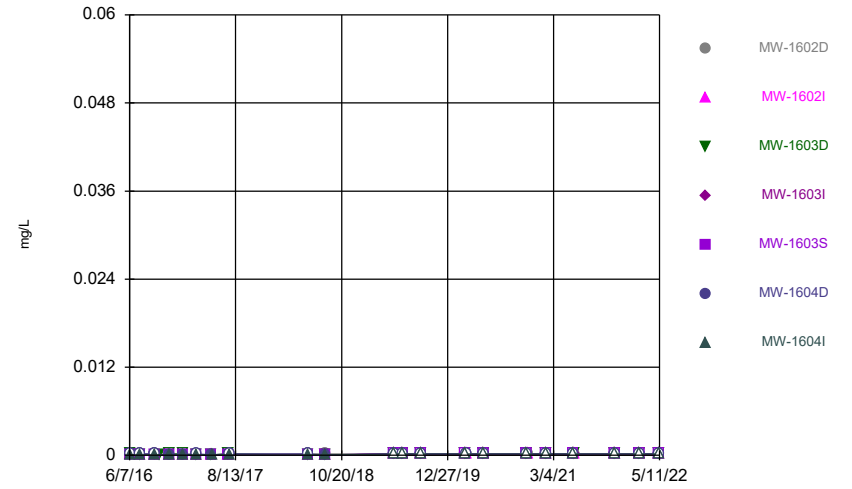
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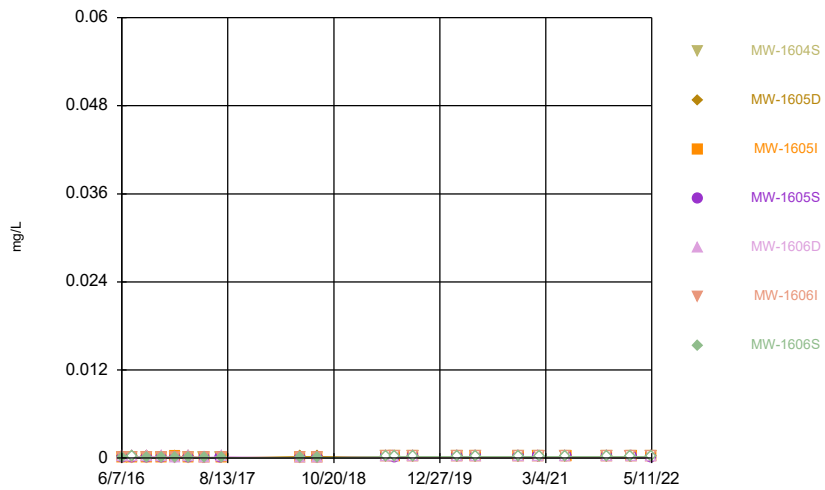
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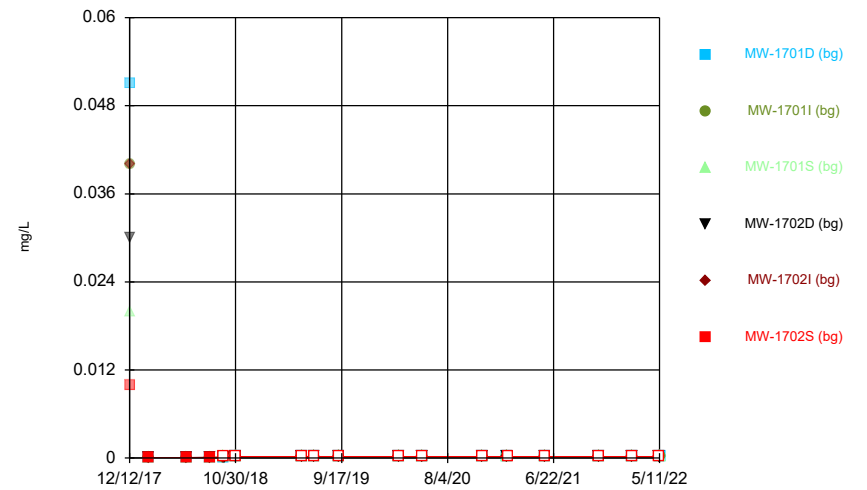
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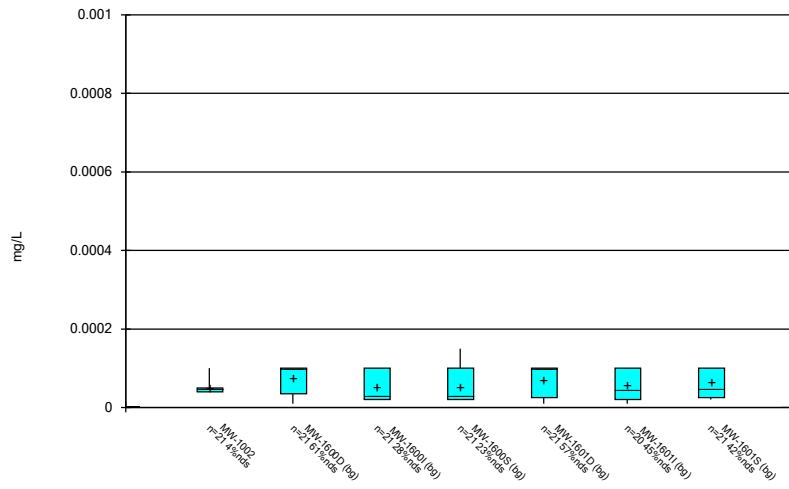
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### Time Series



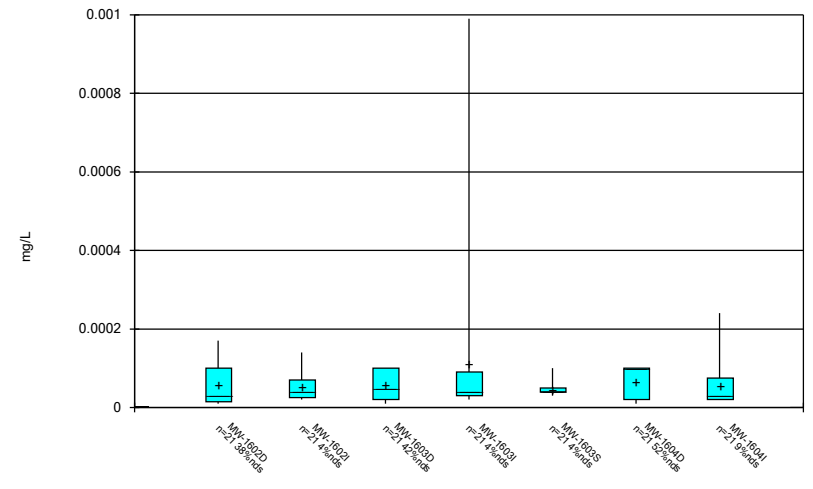
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### Box & Whiskers Plot



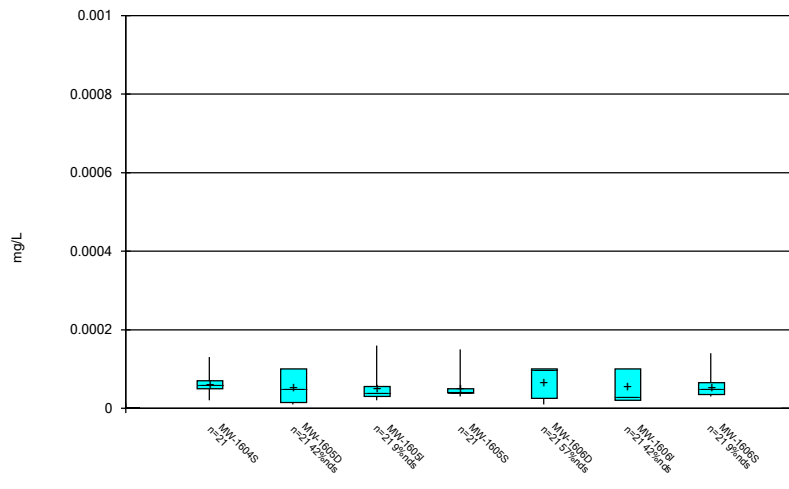
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### Box & Whiskers Plot



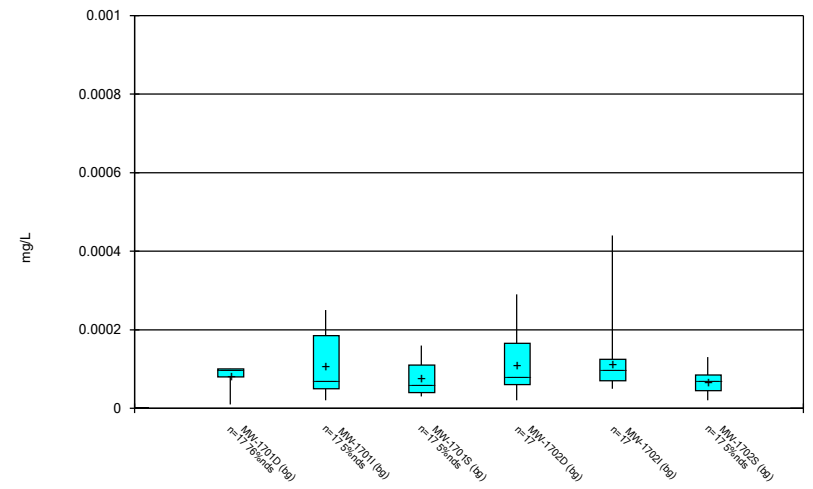
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### Box & Whiskers Plot



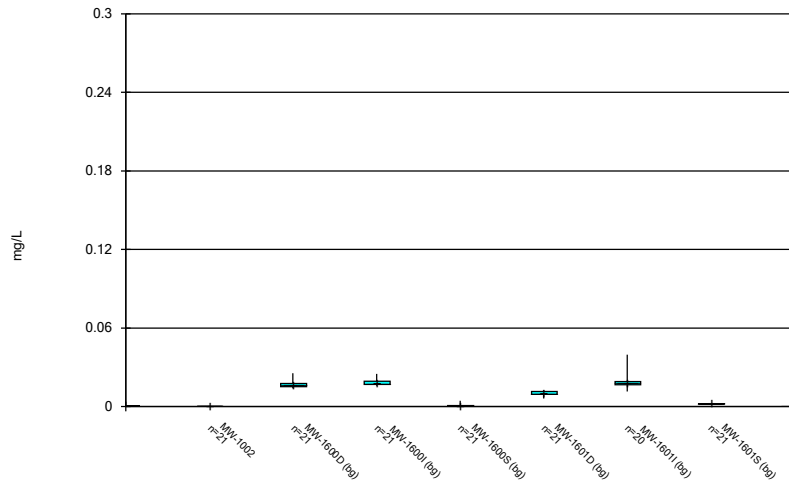
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### Box & Whiskers Plot



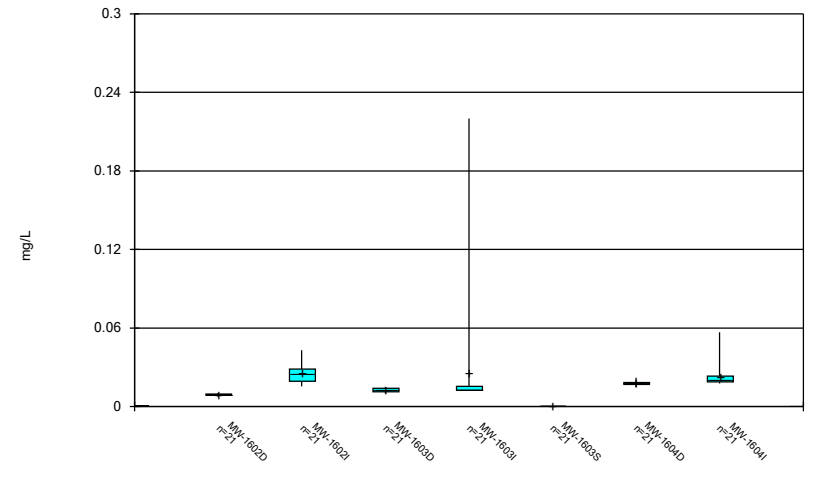
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Box & Whiskers Plot



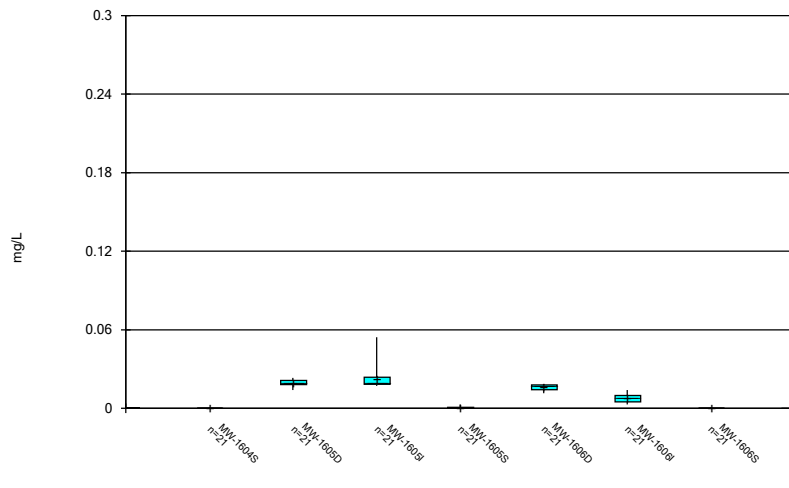
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Box & Whiskers Plot



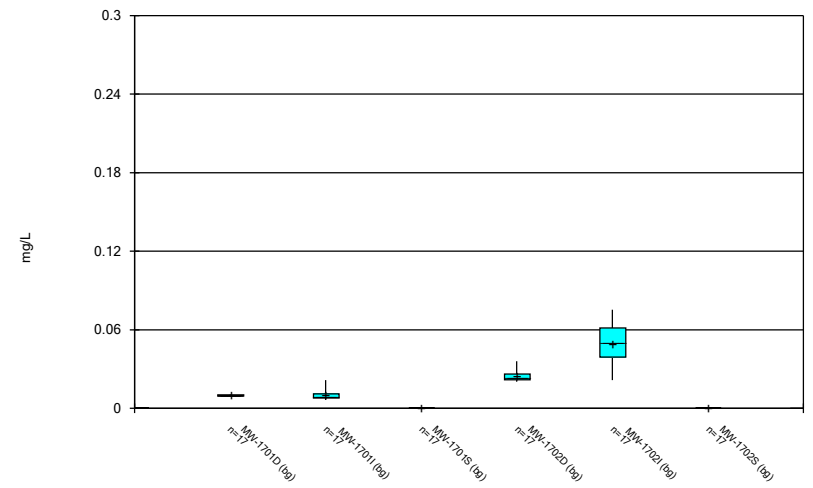
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Box & Whiskers Plot



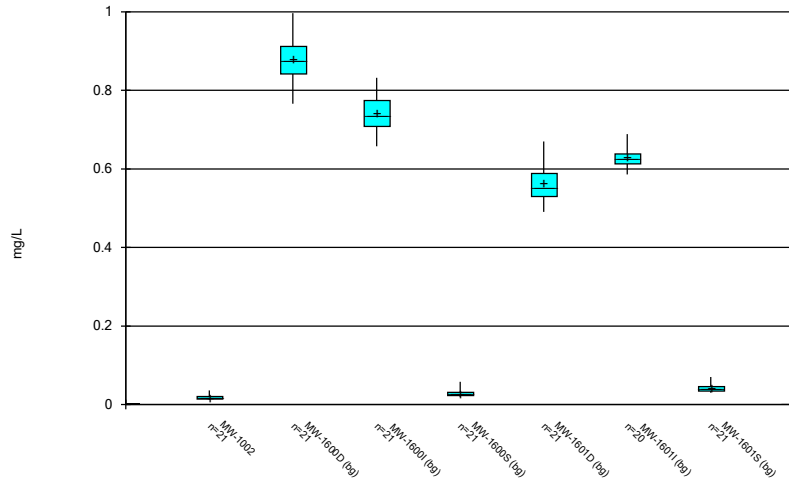
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Box & Whiskers Plot



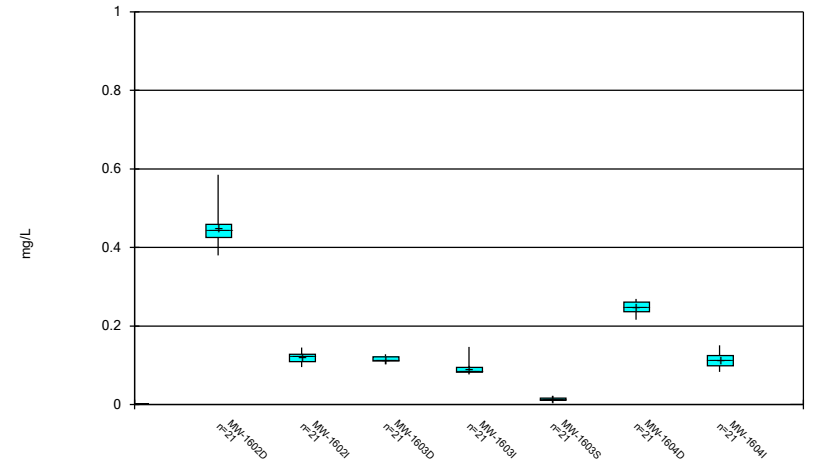
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Box & Whiskers Plot



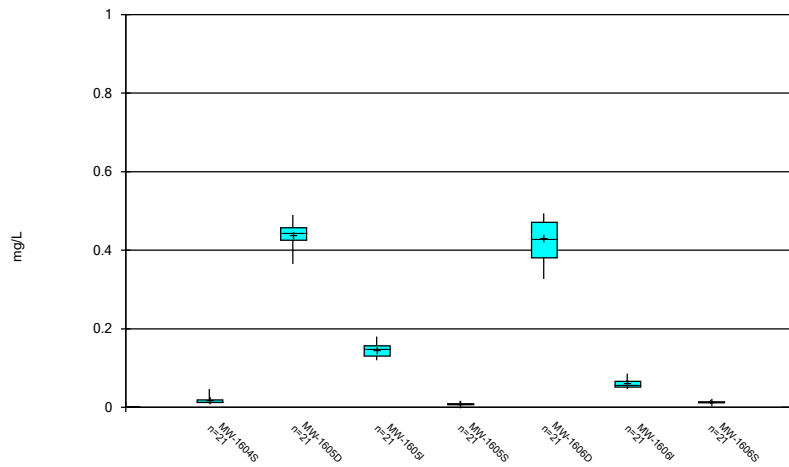
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Box & Whiskers Plot



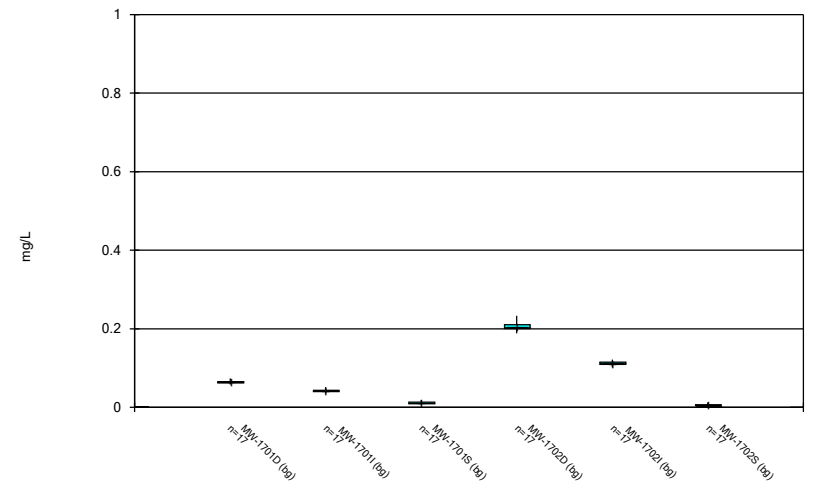
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Box & Whiskers Plot



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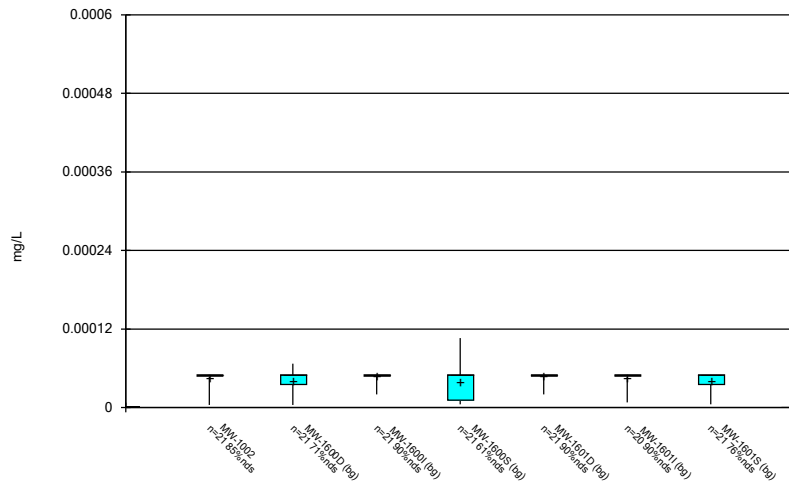
Box & Whiskers Plot



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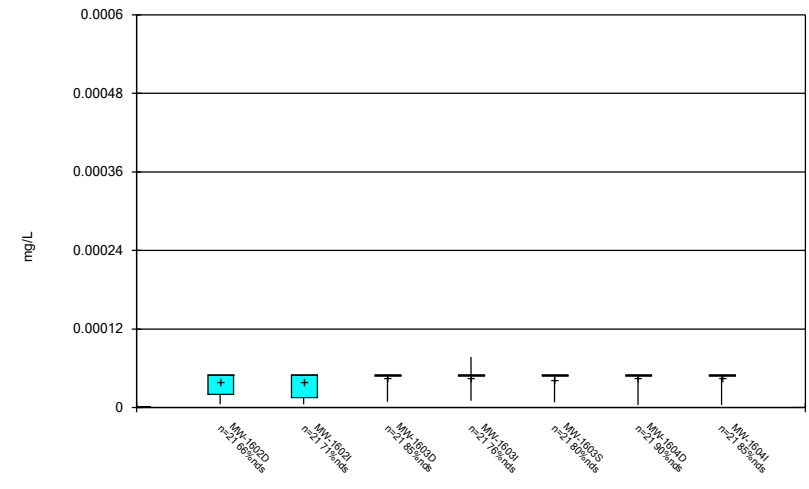


Box & Whiskers Plot



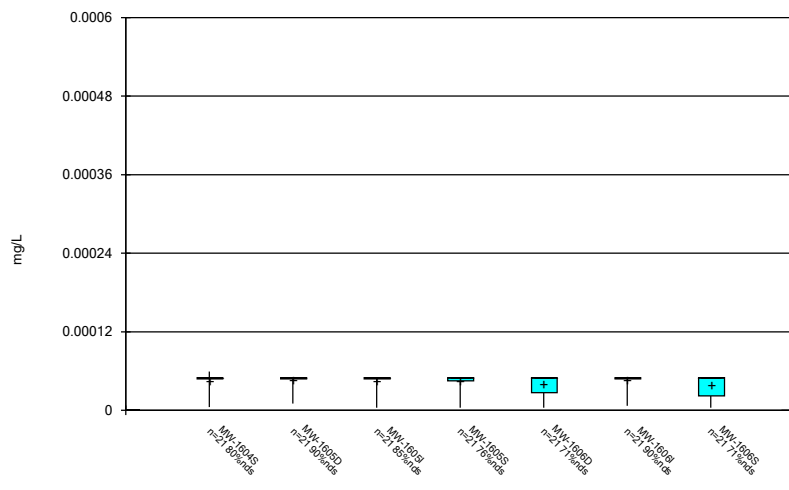
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Box & Whiskers Plot



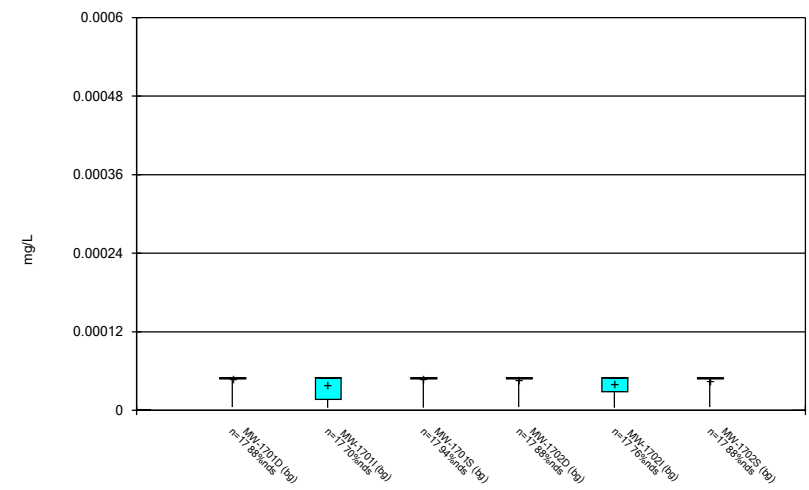
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Box & Whiskers Plot



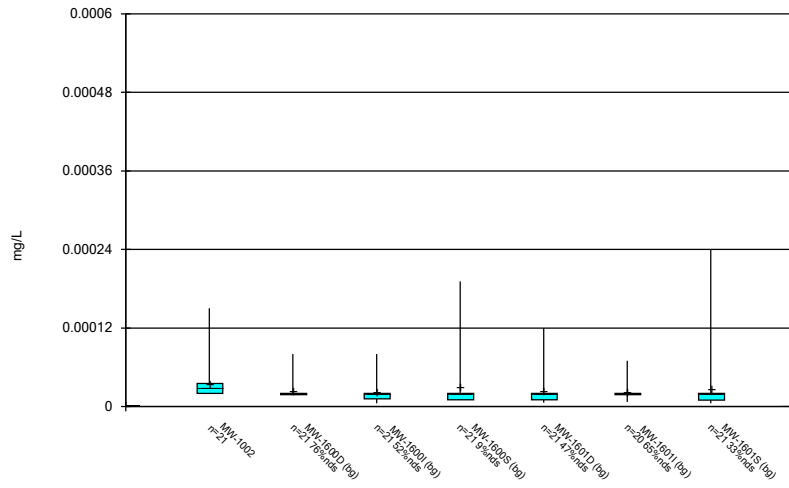
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Box & Whiskers Plot



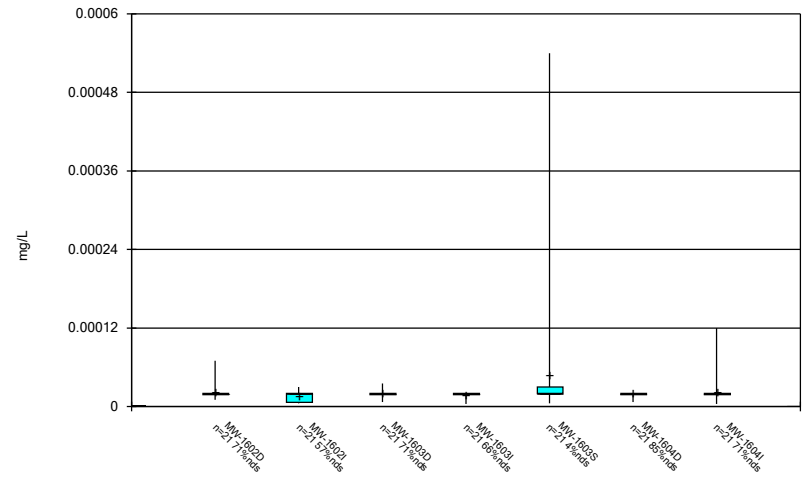
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### Box & Whiskers Plot



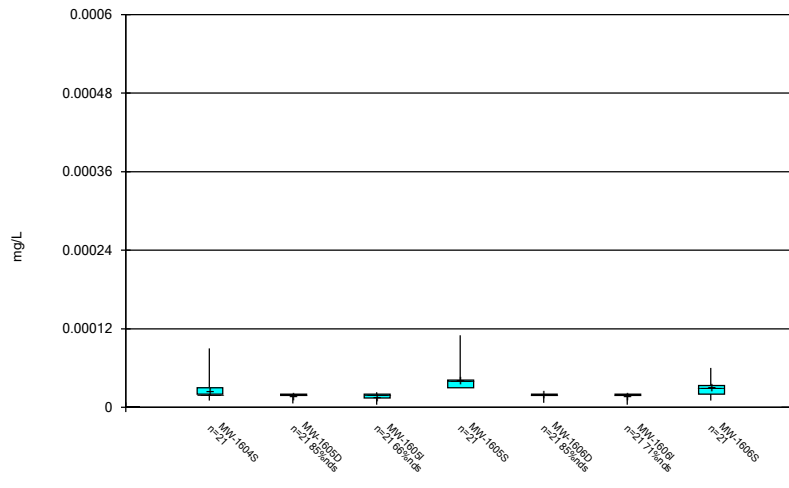
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### Box & Whiskers Plot



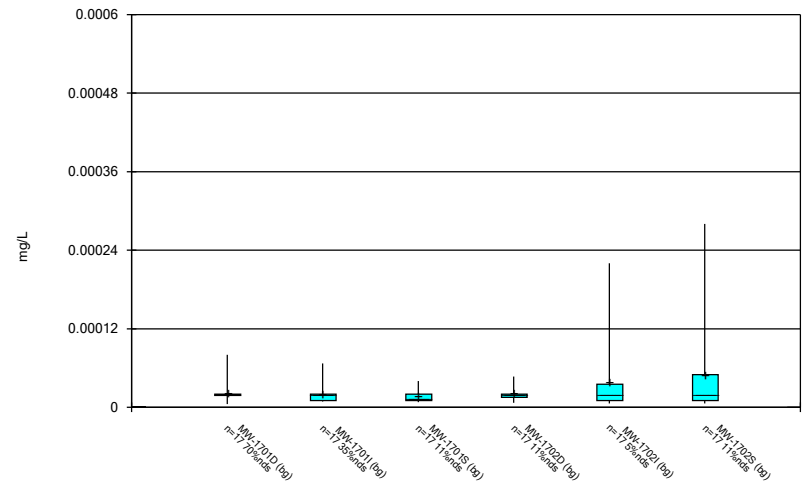
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### Box & Whiskers Plot



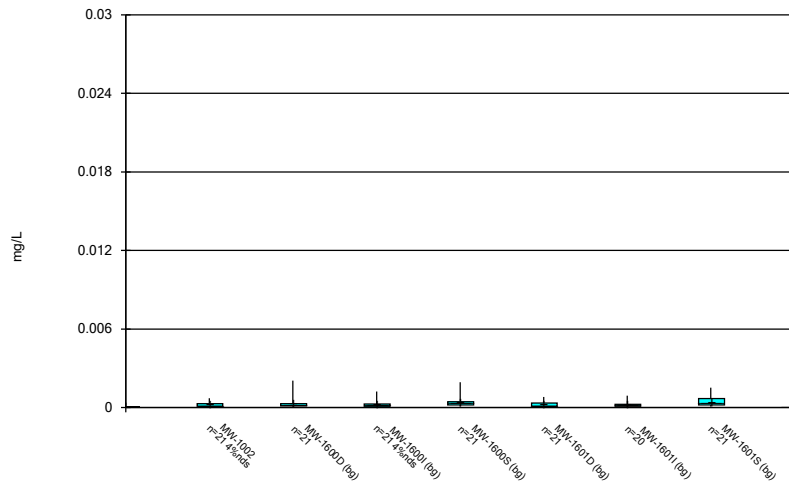
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### Box & Whiskers Plot



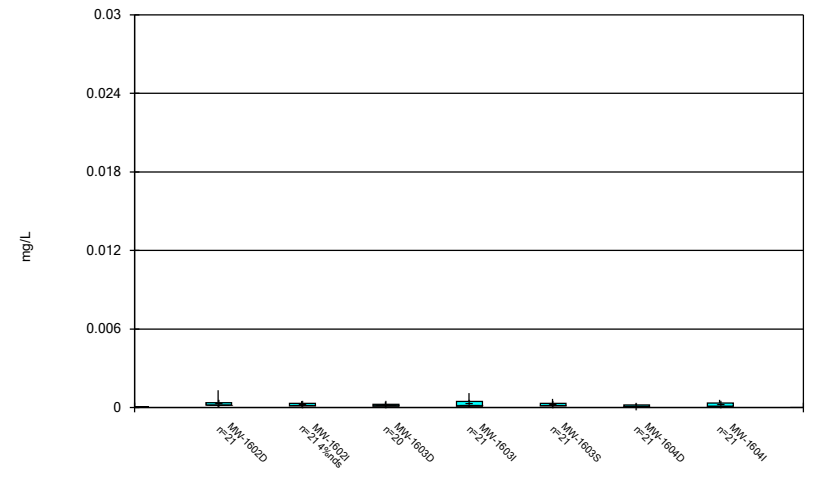
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### Box & Whiskers Plot



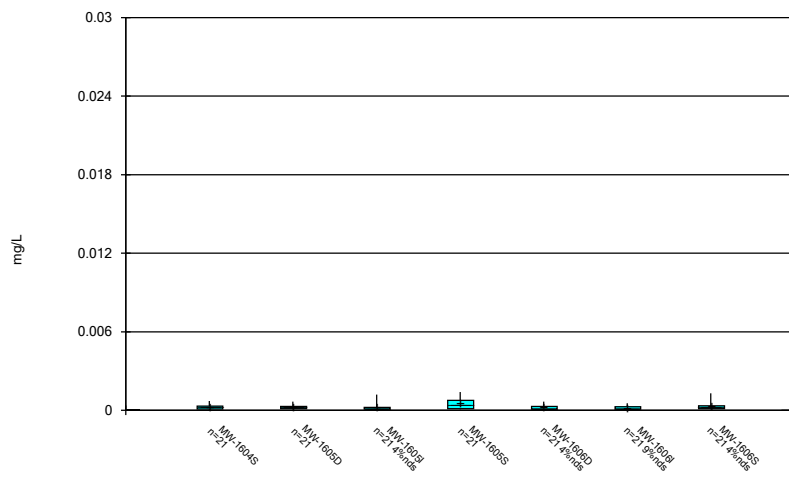
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### Box & Whiskers Plot



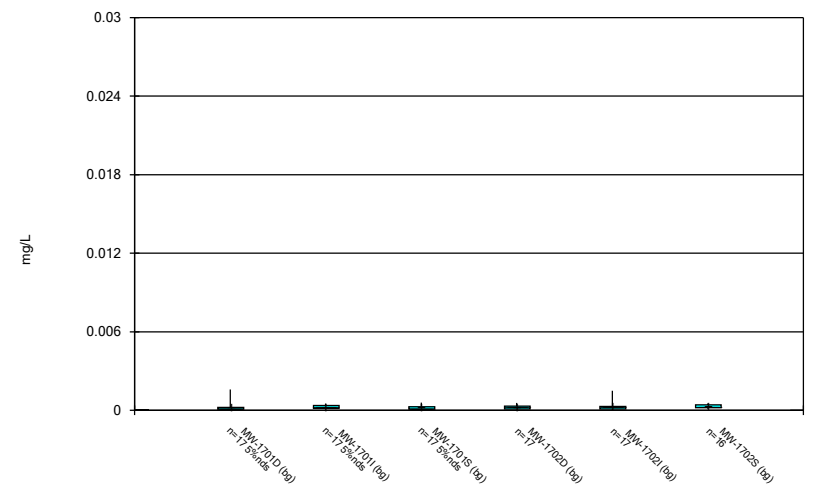
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### Box & Whiskers Plot



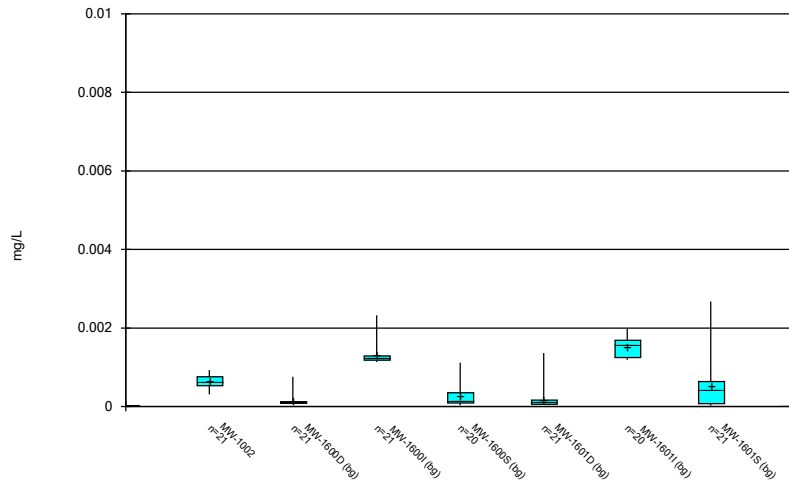
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### Box & Whiskers Plot



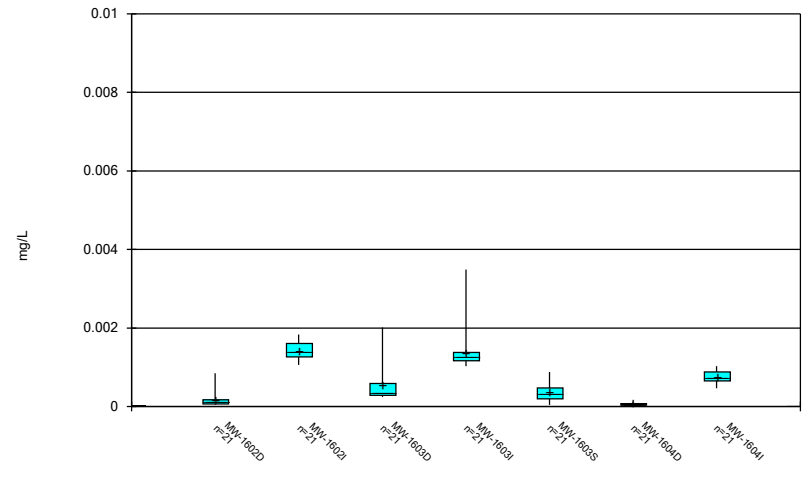
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Box & Whiskers Plot



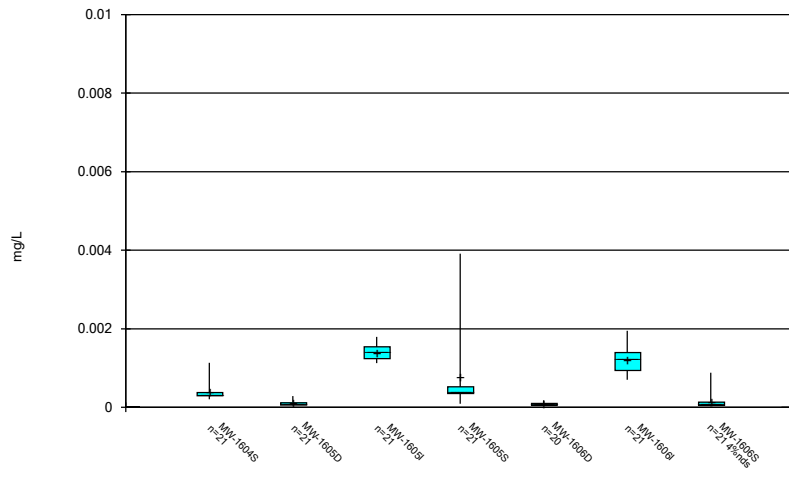
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Box & Whiskers Plot



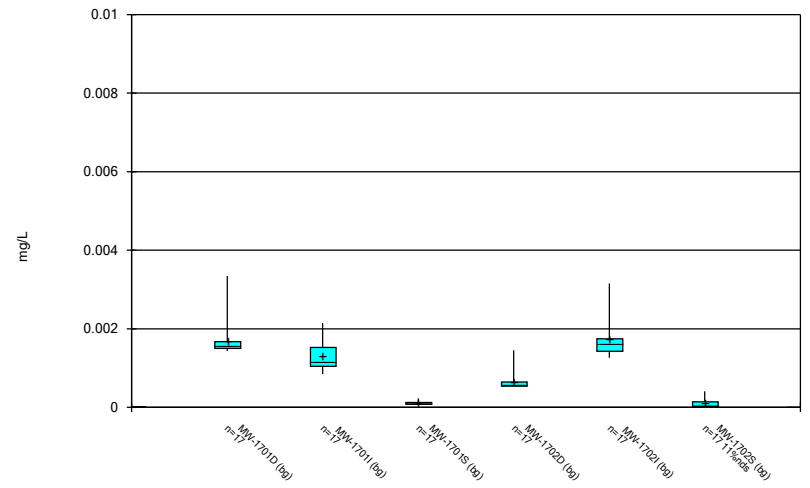
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Box & Whiskers Plot



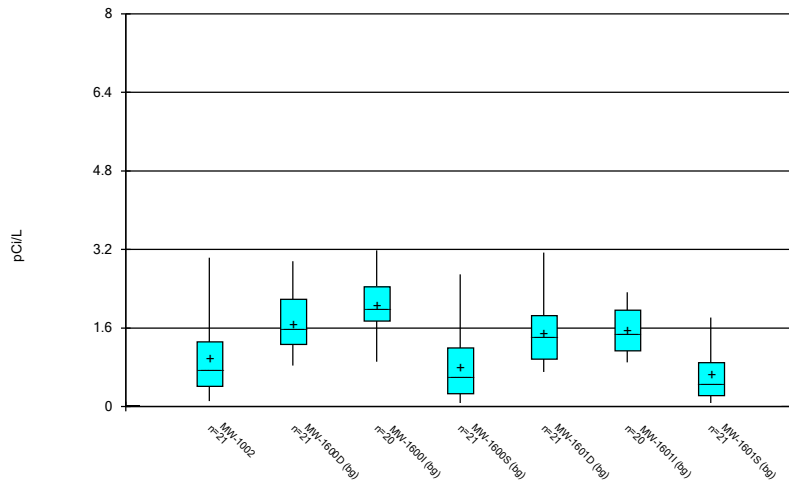
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Box & Whiskers Plot



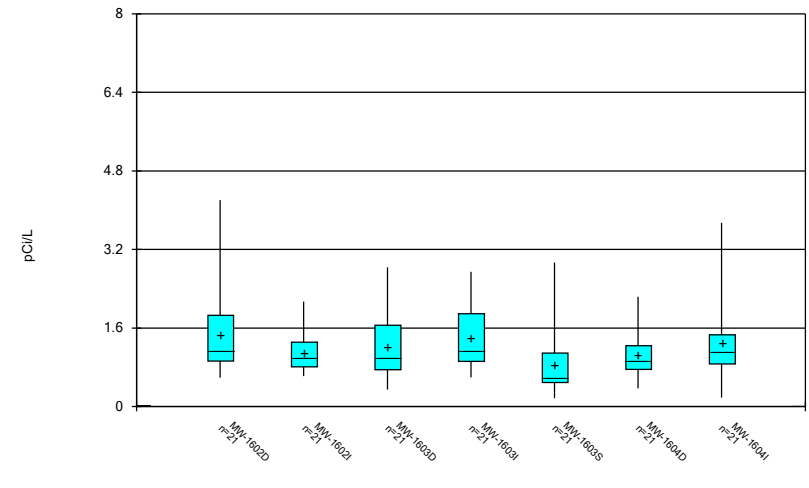
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### Box & Whiskers Plot



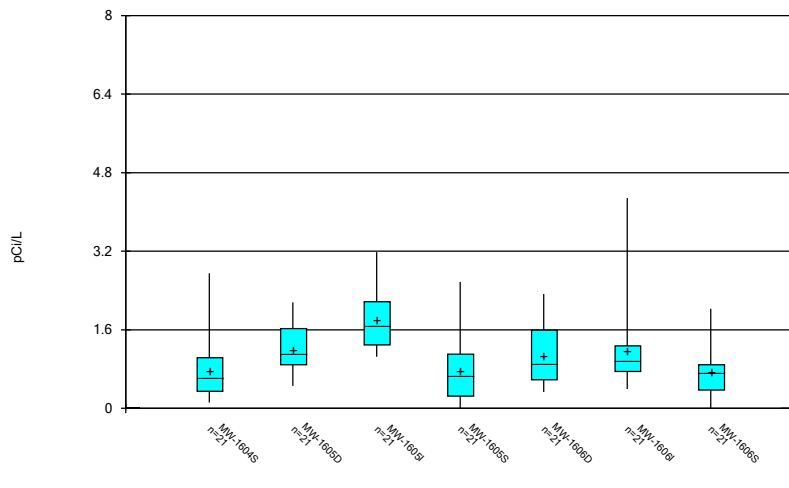
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### Box & Whiskers Plot



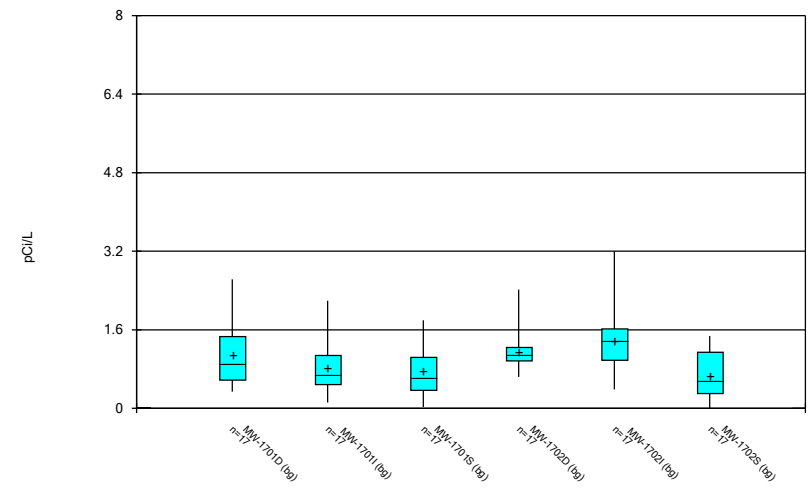
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### Box & Whiskers Plot



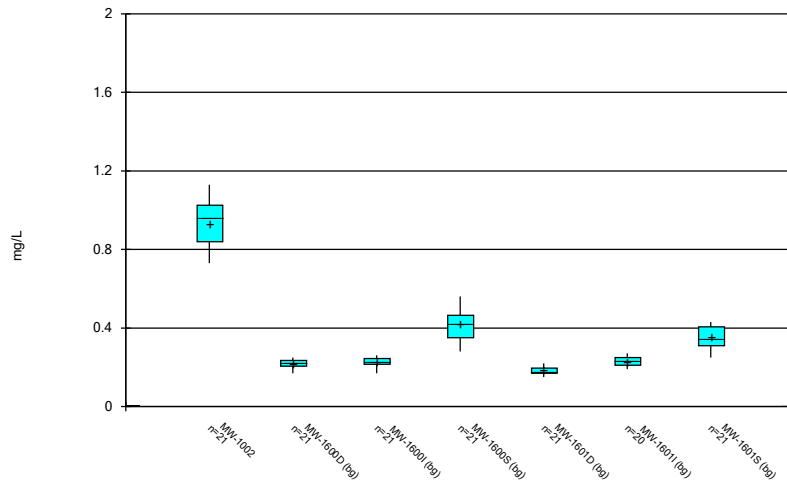
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### Box & Whiskers Plot



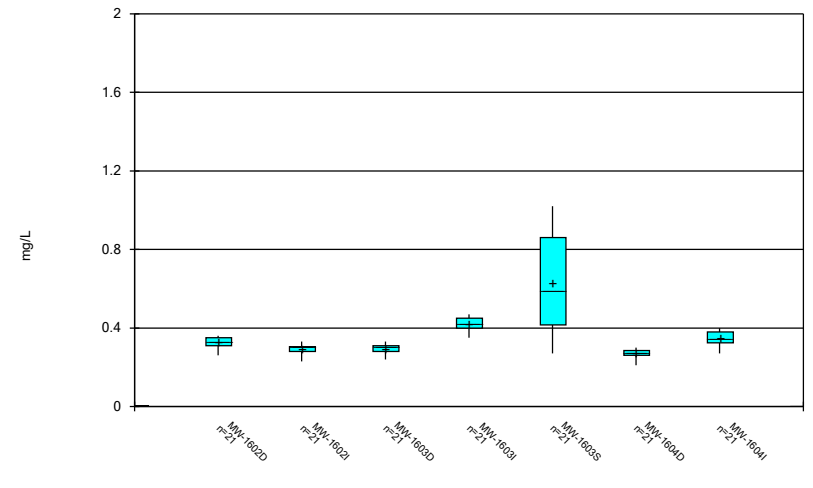
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Box & Whiskers Plot



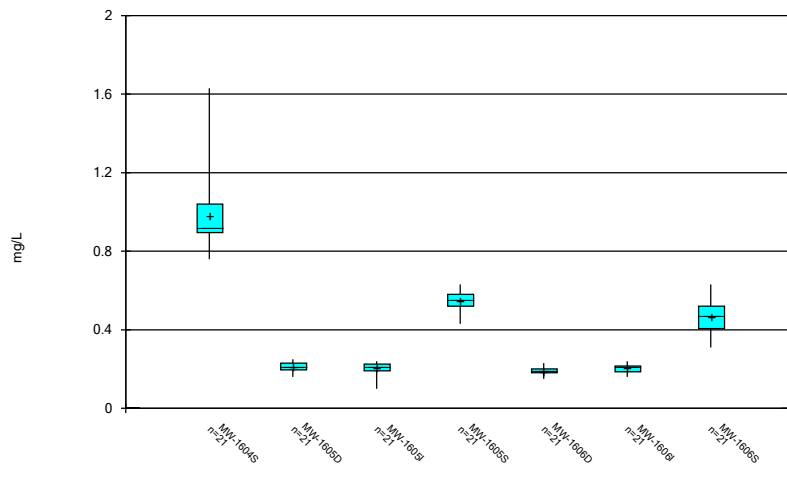
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Box & Whiskers Plot



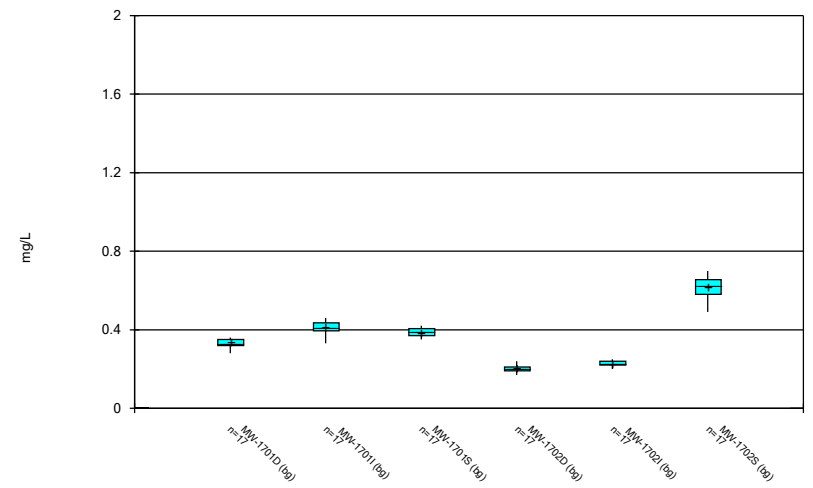
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Box & Whiskers Plot



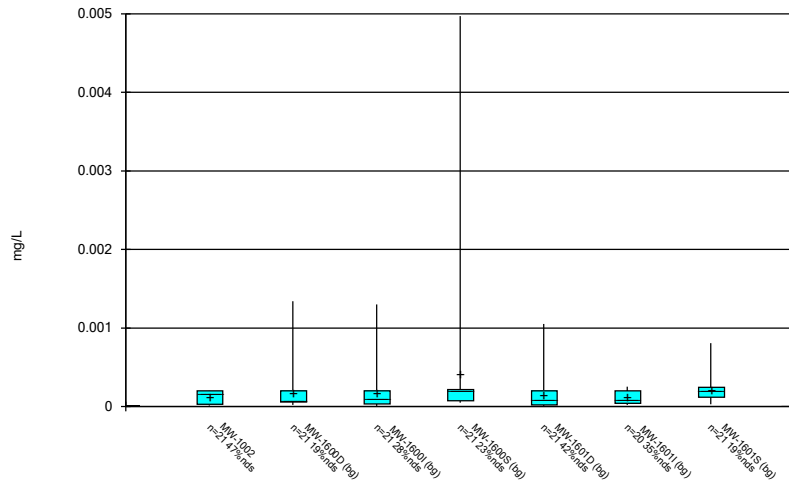
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Box & Whiskers Plot



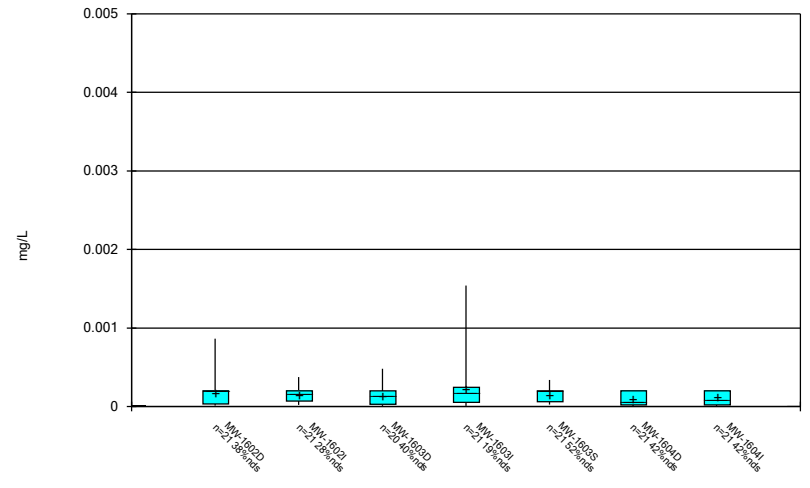
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### Box & Whiskers Plot



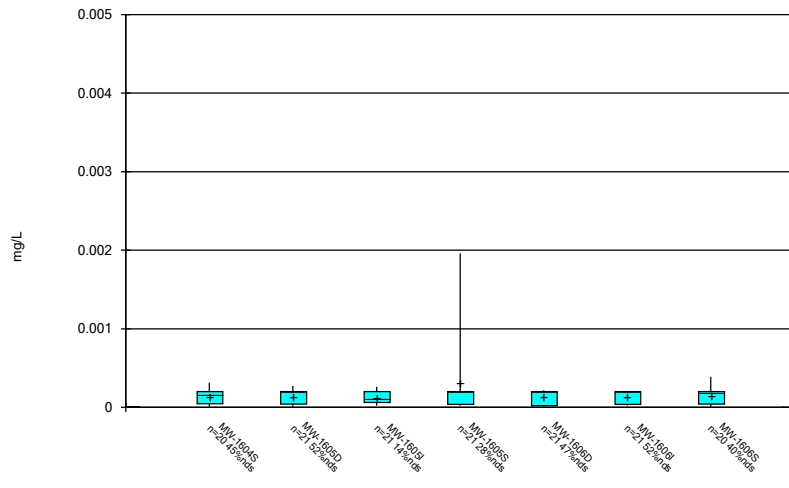
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### Box & Whiskers Plot



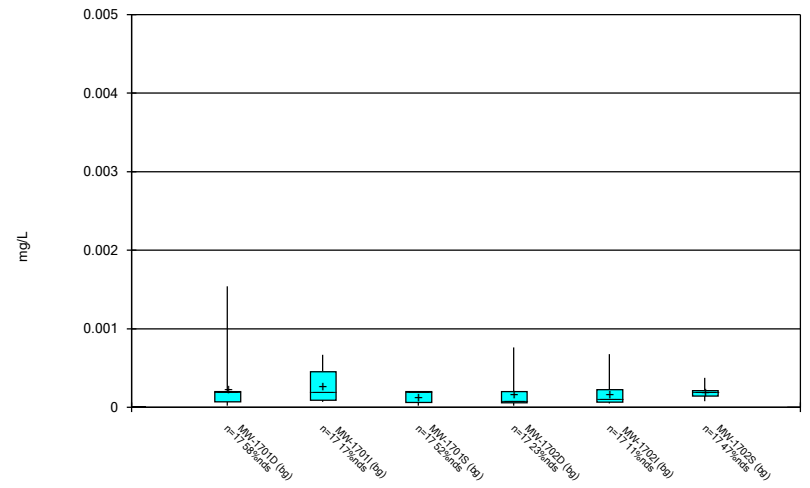
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### Box & Whiskers Plot



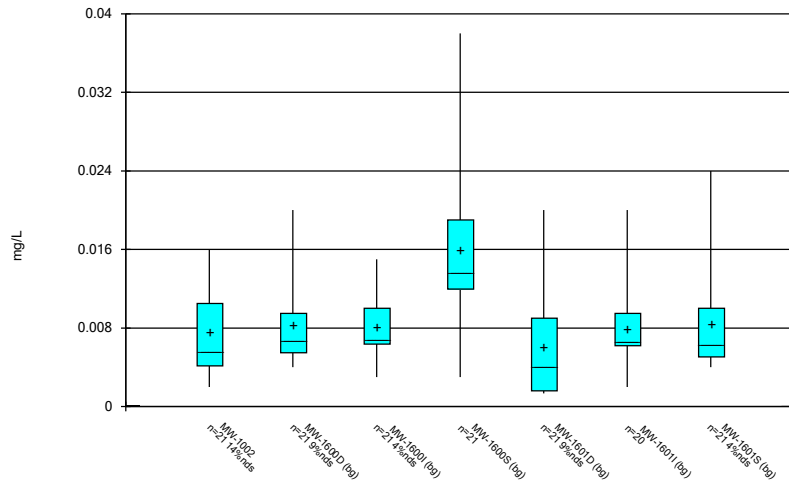
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### Box & Whiskers Plot



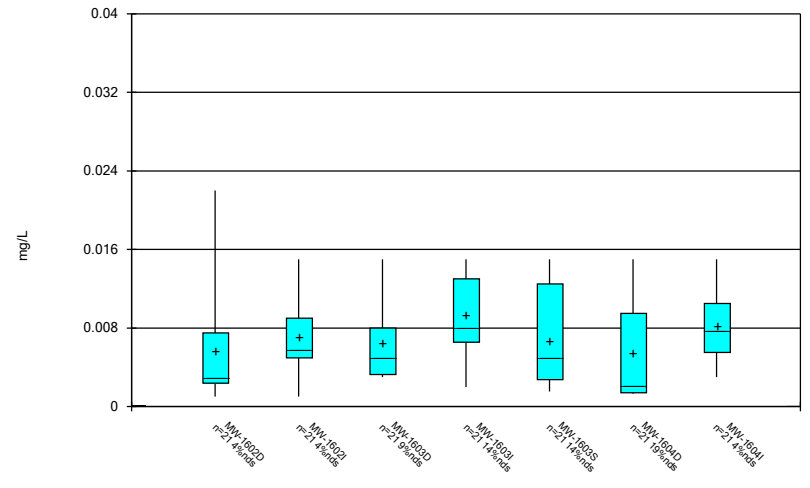
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Box & Whiskers Plot



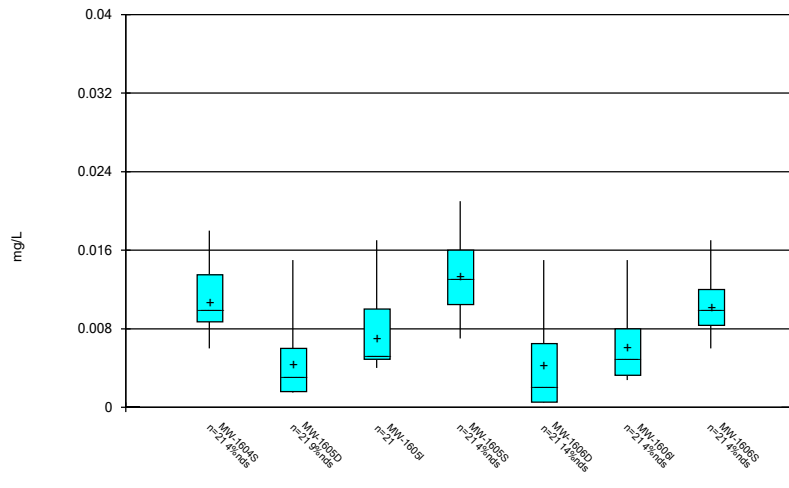
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Box & Whiskers Plot



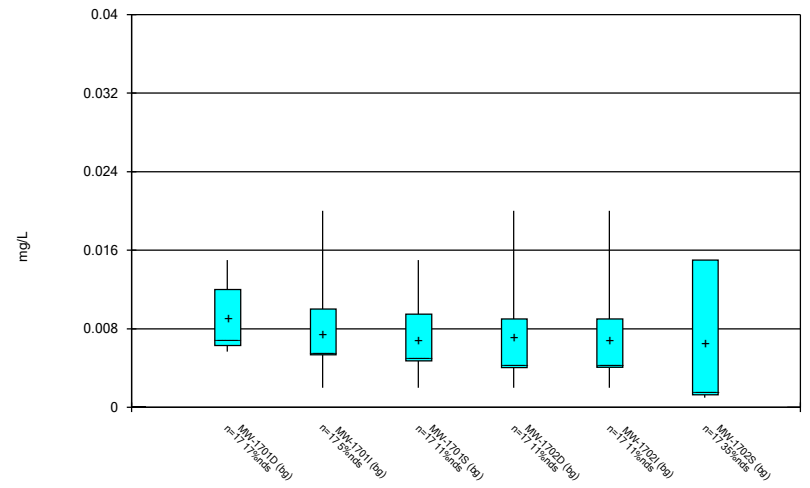
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Box & Whiskers Plot



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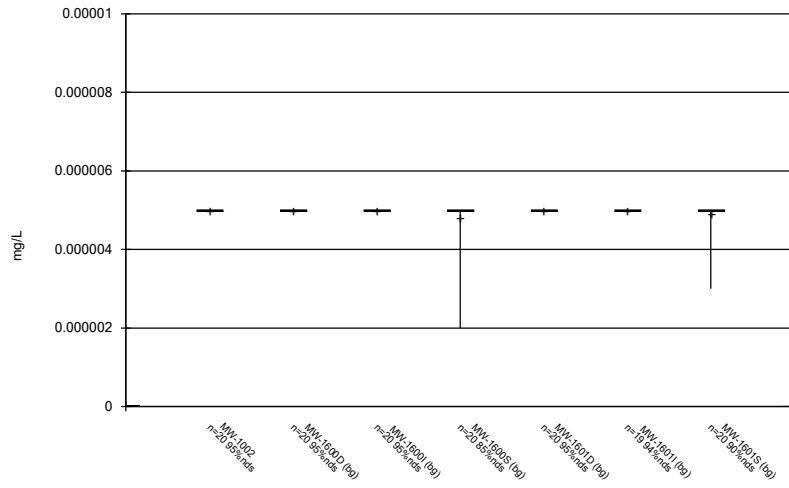
Box & Whiskers Plot



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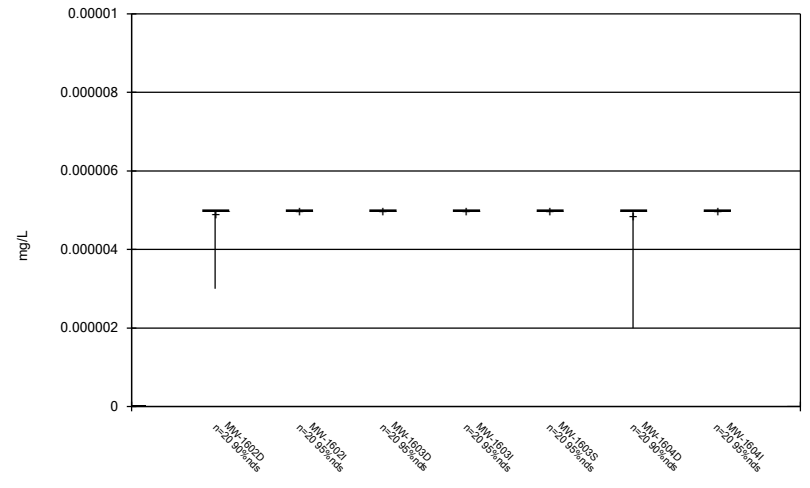


Box & Whiskers Plot



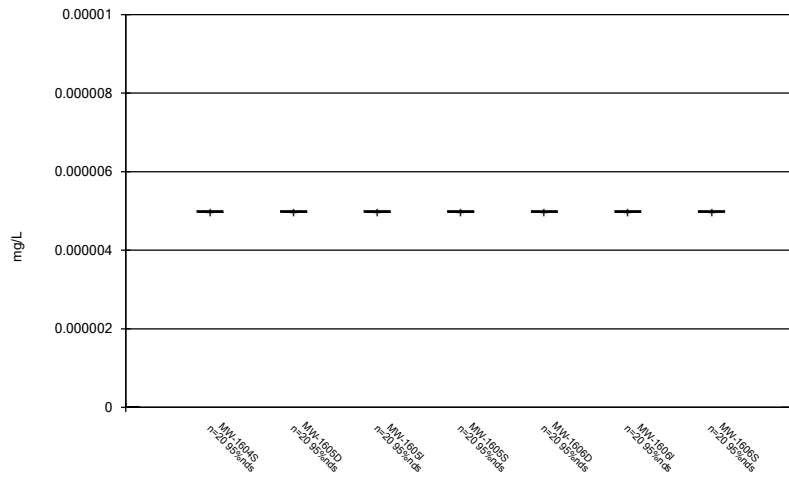
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Box & Whiskers Plot



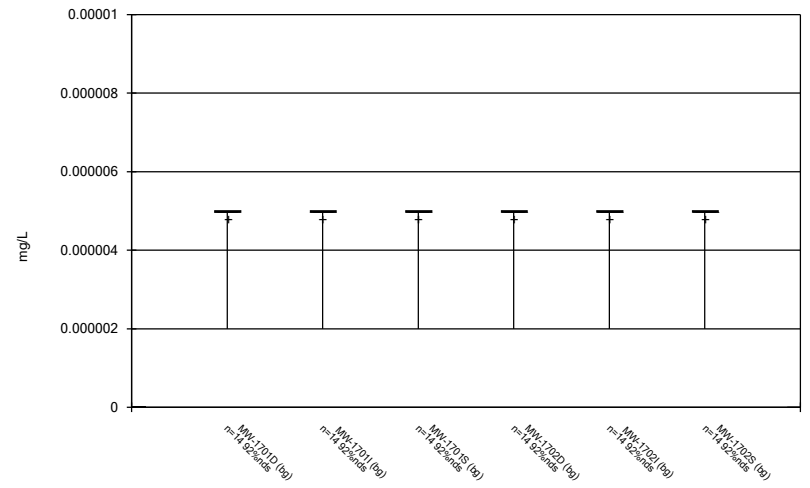
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Box & Whiskers Plot



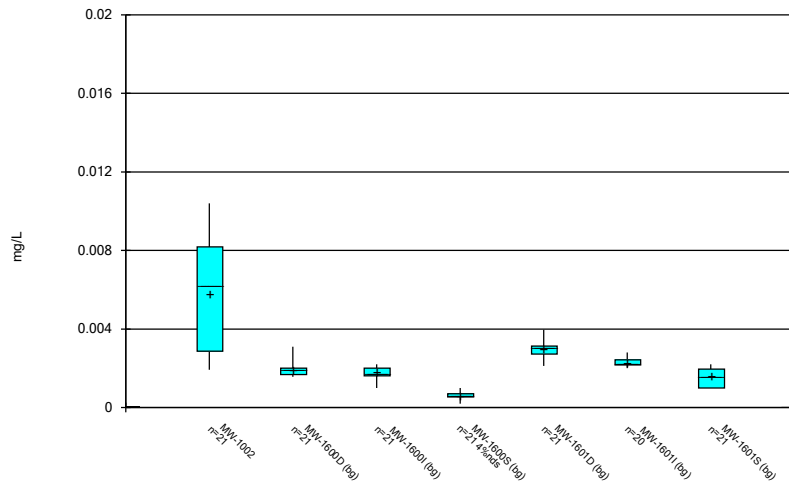
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Box & Whiskers Plot



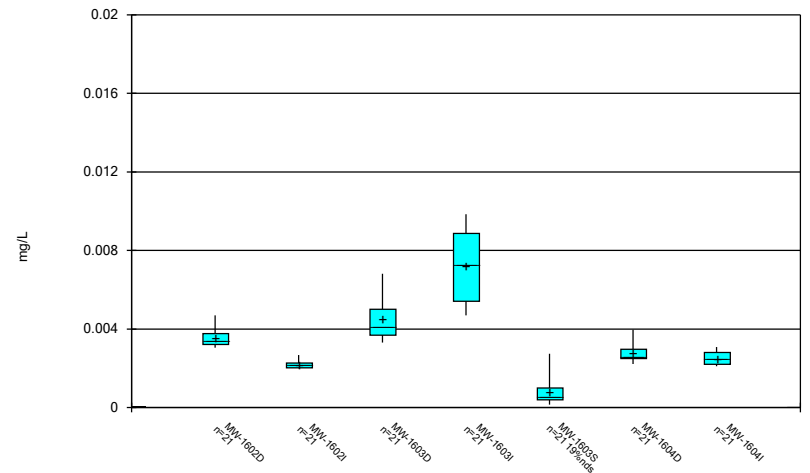
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### Box & Whiskers Plot



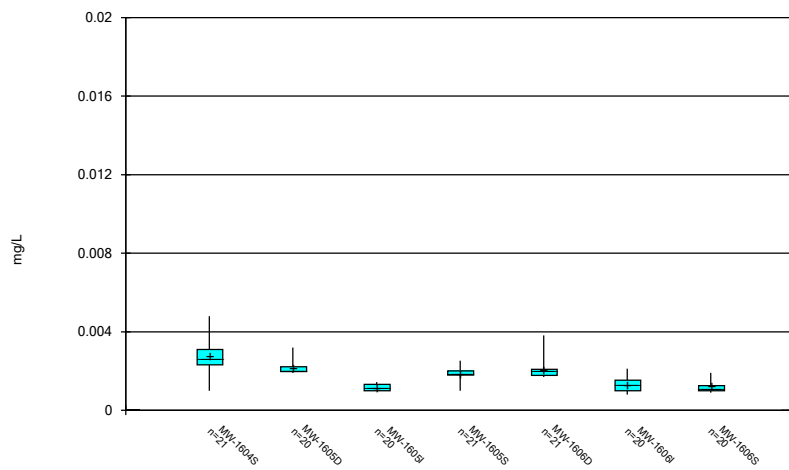
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### Box & Whiskers Plot



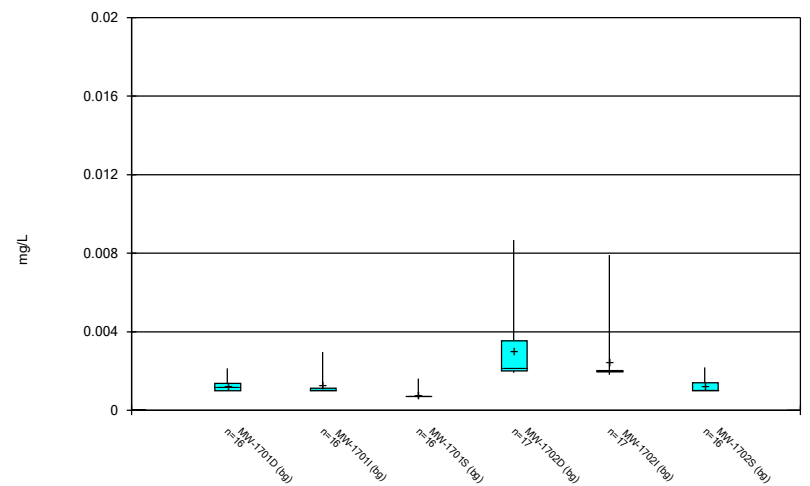
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### Box & Whiskers Plot



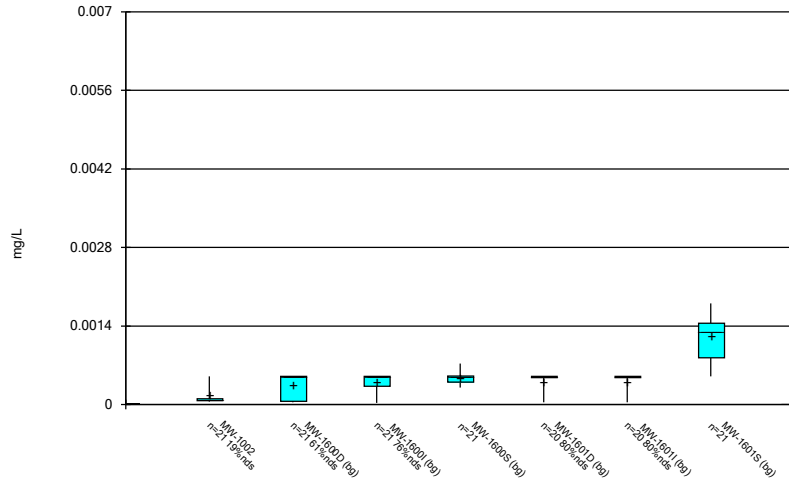
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### Box & Whiskers Plot



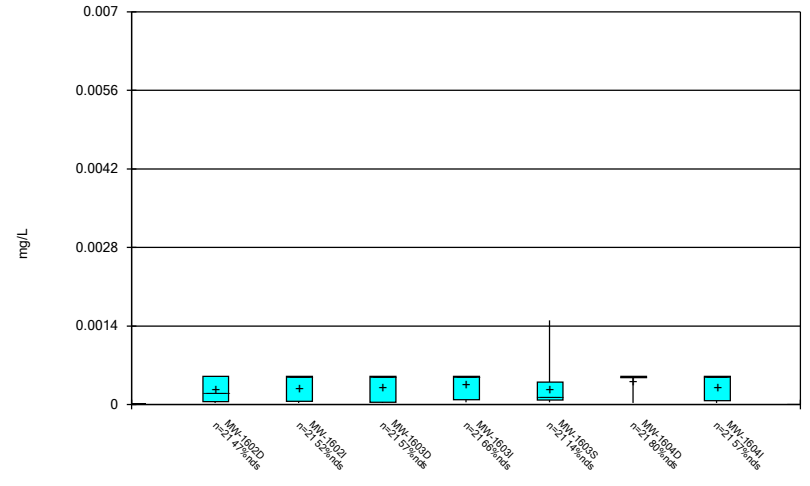
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Box & Whiskers Plot



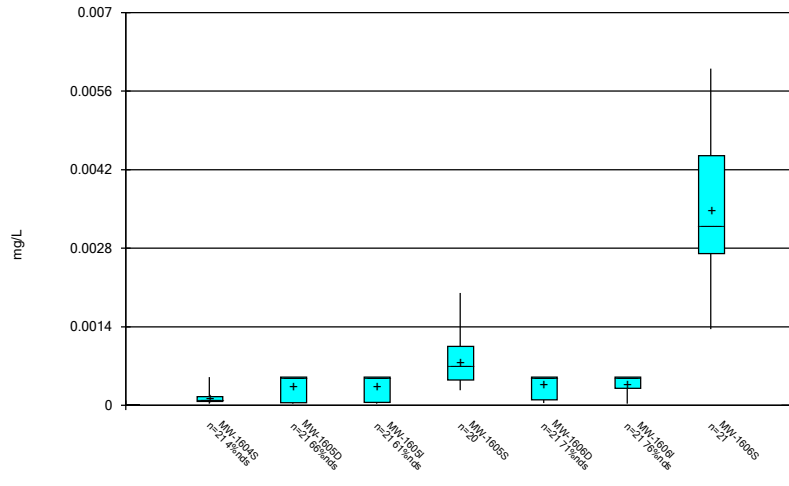
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Box & Whiskers Plot



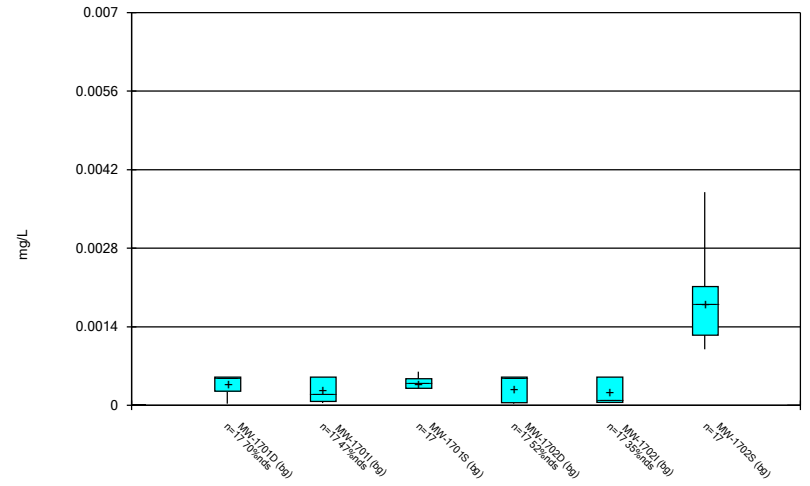
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Box & Whiskers Plot



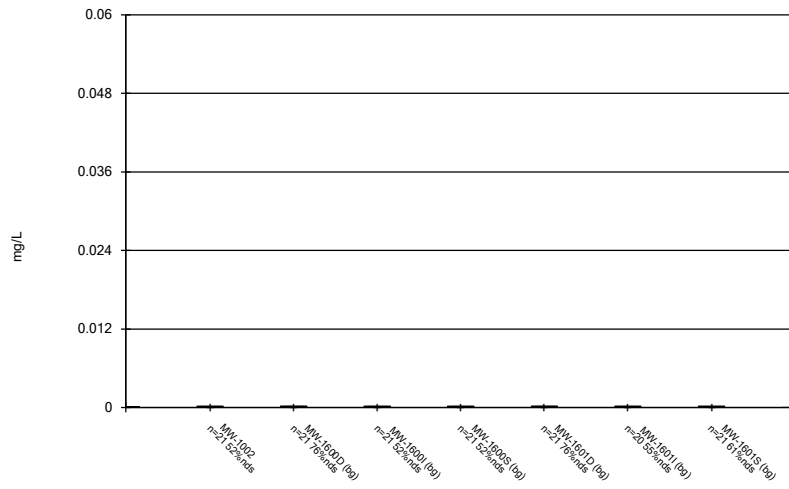
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Box & Whiskers Plot



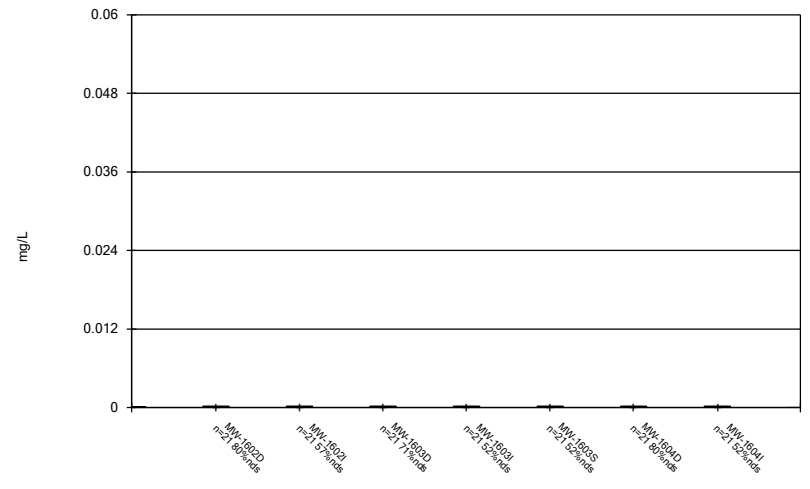
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Box & Whiskers Plot



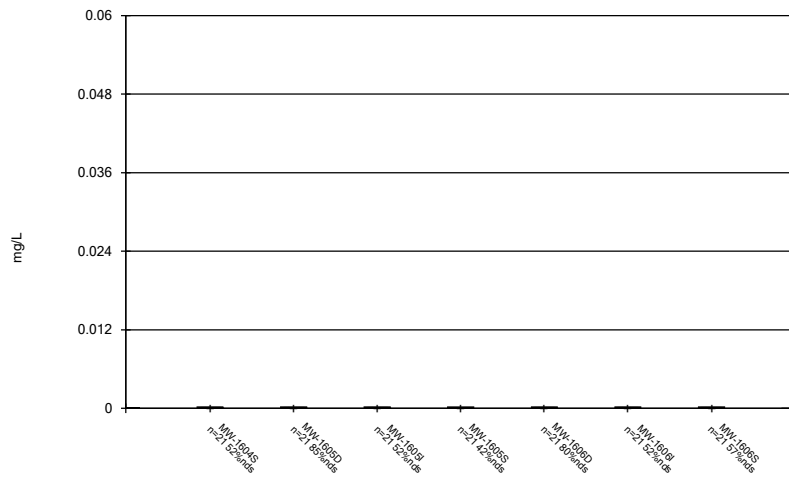
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Box & Whiskers Plot



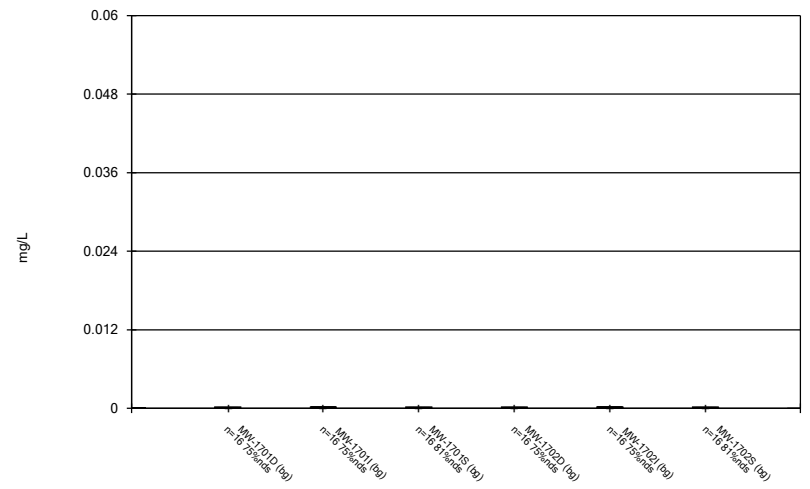
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Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 7/22/2022 12:25 PM View: Appendix IV  
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Box & Whiskers Plot



Constituent: Thallium, total Analysis Run 7/22/2022 12:25 PM View: Appendix IV  
 Rockport BAP Client: Geosyntec Data: Rockport\_BAP

# Outlier Summary

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 7/22/2022, 12:29 PM

MW-1603D Chromium, total (mg/L)  
 MW-1702S Chromium, total (mg/L)  
 MW-1600S Cobalt, total (mg/L)  
 MW-1606D Cobalt, total (mg/L)  
 MW-1600I Combined Radium 226 + 228 (pCi/L)  
 MW-1603D Lead, total (mg/L)  
 MW-1604S Lead, total (mg/L)  
 MW-1606S Lead, total (mg/L)  
 MW-1605D Molybdenum, total (mg/L)  
 MW-1605I Molybdenum, total (mg/L)

Date	MW-1603D Chromium, total (mg/L)	MW-1702S Chromium, total (mg/L)	MW-1600S Cobalt, total (mg/L)	MW-1606D Cobalt, total (mg/L)	MW-1600I Combined Radium 226 + 228 (pCi/L)	MW-1603D Lead, total (mg/L)	MW-1604S Lead, total (mg/L)	MW-1606S Lead, total (mg/L)	MW-1605D Molybdenum, total (mg/L)	MW-1605I Molybdenum, total (mg/L)
6/7/2016			0.000508 (o)						0.00765 (o)	
6/8/2016				7.25 (o)						
7/20/2016						0.000911 (o)				
10/10/2016	0.0238 (o)					0.00138 (o)				
3/7/2017								0.00133 (o)		
12/12/2017		0.00413 (o)								
8/15/2018										
5/24/2019										
6/25/2019									<0.01 (o)	
5/27/2021			0.00995 (o)							

MW-1606I Molybdenum, total (mg/L)  
 MW-1606S Molybdenum, total (mg/L)  
 MW-1701D Molybdenum, total (mg/L)  
 MW-1701I Molybdenum, total (mg/L)  
 MW-1701S Molybdenum, total (mg/L)  
 MW-1702S Molybdenum, total (mg/L)  
 MW-1601D Selenium, total (mg/L)  
 MW-1605S Selenium, total (mg/L)  
 MW-1701D Thallium, total (mg/L)  
 MW-1701I Thallium, total (mg/L)

Date	MW-1606I Molybdenum, total (mg/L)	MW-1606S Molybdenum, total (mg/L)	MW-1701D Molybdenum, total (mg/L)	MW-1701I Molybdenum, total (mg/L)	MW-1701S Molybdenum, total (mg/L)	MW-1702S Molybdenum, total (mg/L)	MW-1601D Selenium, total (mg/L)	MW-1605S Selenium, total (mg/L)	MW-1701D Thallium, total (mg/L)	MW-1701I Thallium, total (mg/L)
6/7/2016										
6/8/2016										
7/20/2016										
10/10/2016										
3/7/2017										
12/12/2017								0.051 (o)	0.04 (o)	
8/15/2018								0.0054 (o)		
5/24/2019							3E-05 (Jo)			
6/25/2019	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)	<0.01 (o)				
5/27/2021										

MW-1701S Thallium, total (mg/L)  
 MW-1702D Thallium, total (mg/L)  
 MW-1702I Thallium, total (mg/L)  
 MW-1702S Thallium, total (mg/L)

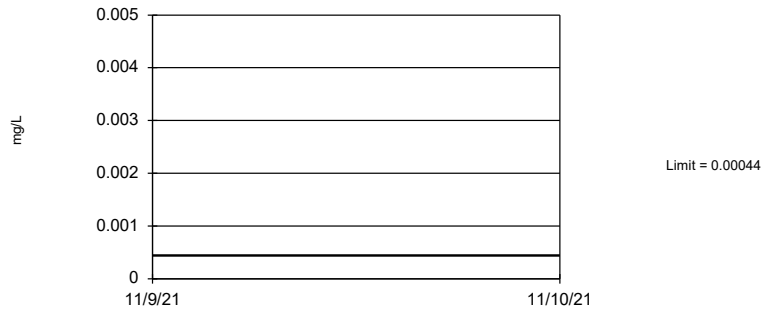
Date	MW-1701S Thallium, total (mg/L)	MW-1702D Thallium, total (mg/L)	MW-1702I Thallium, total (mg/L)	MW-1702S Thallium, total (mg/L)
6/7/2016				
6/8/2016				
7/20/2016				
10/10/2016				
3/7/2017				
12/12/2017	0.02 (o)	0.03 (o)	0.04 (o)	0.01 (o)
8/15/2018				
5/24/2019				
6/25/2019				
5/27/2021				

# Upper Tolerance Limits - Summary Table

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 1/13/2022, 4:21 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</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>
Antimony, total (mg/L)	n/a	0.00044	n/a	n/a	n/a	203	n/a	n/a	30.05	n/a	n/a	NaN	NP Inter(normality)
Arsenic, total (mg/L)	n/a	0.0727	n/a	n/a	n/a	203	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Barium, total (mg/L)	n/a	0.997	n/a	n/a	n/a	203	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium, total (mg/L)	n/a	0.000106	n/a	n/a	n/a	203	n/a	n/a	79.8	n/a	n/a	NaN	NP Inter(NDs)
Cadmium, total (mg/L)	n/a	0.00028	n/a	n/a	n/a	203	n/a	n/a	38.92	n/a	n/a	NaN	NP Inter(normality)
Chromium, total (mg/L)	n/a	0.00205	n/a	n/a	n/a	202	n/a	n/a	1.98	n/a	n/a	NaN	NP Inter(normality)
Cobalt, total (mg/L)	n/a	0.00334	n/a	n/a	n/a	202	n/a	n/a	0.9901	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	n/a	2.474	n/a	n/a	n/a	202	1.165	0.7133	0	None	No	0.05	Inter
Fluoride, total (mg/L)	n/a	0.7	n/a	n/a	n/a	203	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Lead, total (mg/L)	n/a	0.00497	n/a	n/a	n/a	203	n/a	n/a	28.57	n/a	n/a	NaN	NP Inter(normality)
Lithium, total (mg/L)	n/a	0.038	n/a	n/a	n/a	203	n/a	n/a	10.84	n/a	n/a	NaN	NP Inter(normality)
Mercury, total (mg/L)	n/a	0.000005	n/a	n/a	n/a	179	n/a	n/a	91.62	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum, total (mg/L)	n/a	0.00867	n/a	n/a	n/a	199	n/a	n/a	0.5025	n/a	n/a	NaN	NP Inter(normality)
Selenium, total (mg/L)	n/a	0.0038	n/a	n/a	n/a	202	n/a	n/a	39.6	n/a	n/a	NaN	NP Inter(normality)
Thallium, total (mg/L)	n/a	0.0002	n/a	n/a	n/a	197	n/a	n/a	64.97	n/a	n/a	NaN	NP Inter(NDs)

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 30.05% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

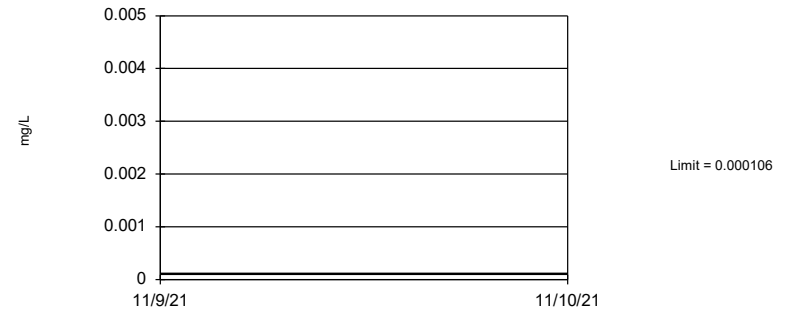
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

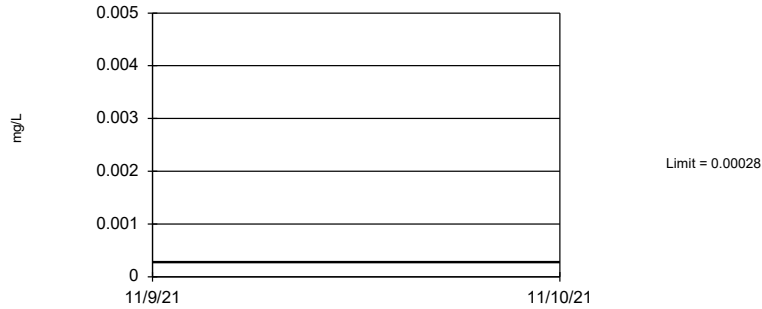
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 203 background values. 79.8% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

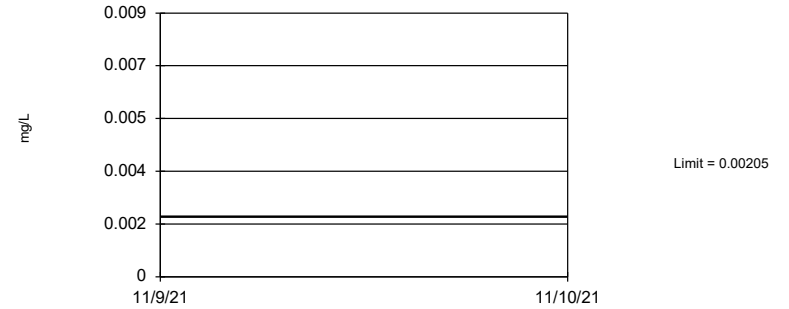
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 38.92% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

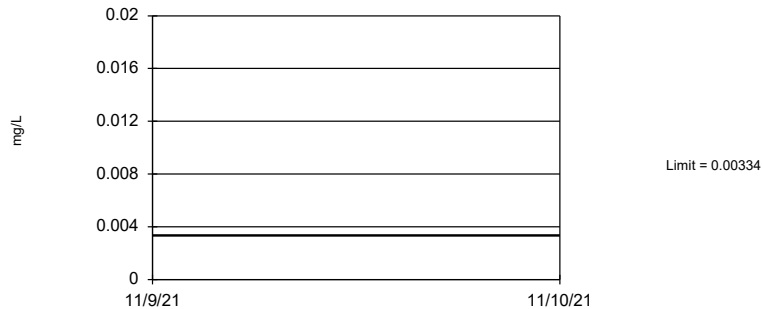
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 202 background values. 1.98% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

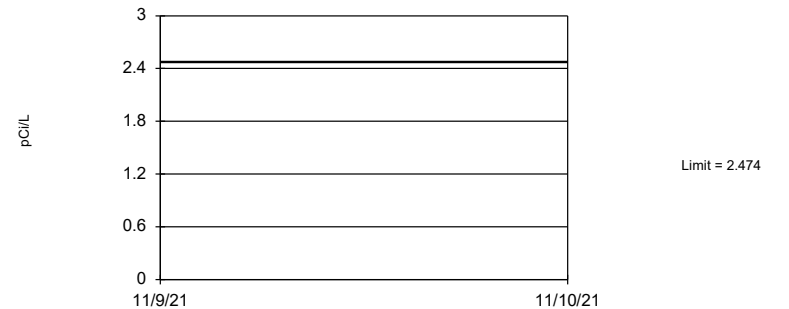
Tolerance Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 202 background values. 0.9901% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Tolerance Limit  
Interwell Parametric



95% coverage. Background Data Summary: Mean=1.165, Std. Dev.=0.7133, n=202. Normality test: Chi Squared @alpha = 0.01, calculated = 10.38, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



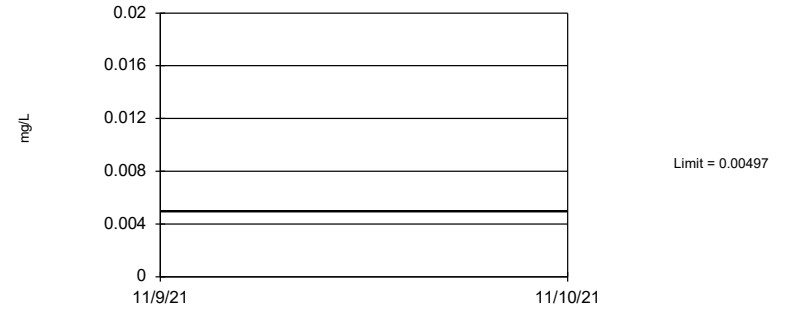
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

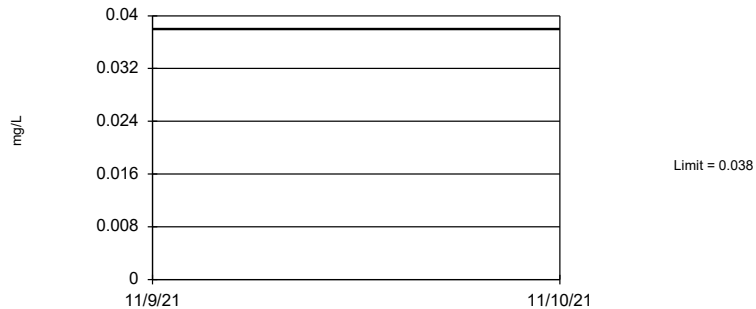
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 28.57% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 203 background values. 10.84% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

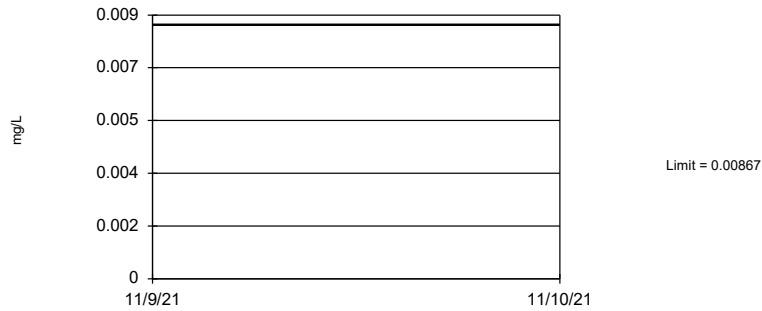
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 179 background values. 91.62% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Mercury, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

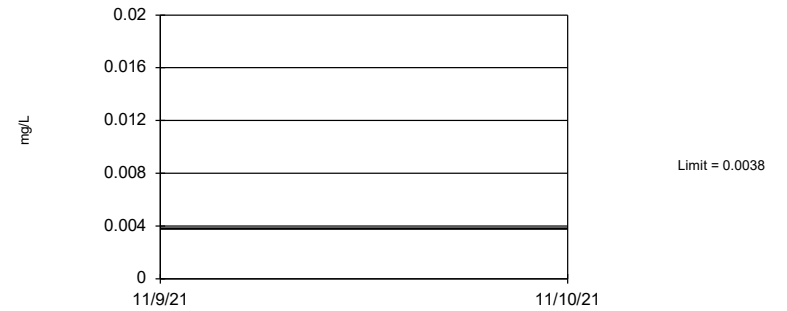
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 199 background values. 0.5025% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

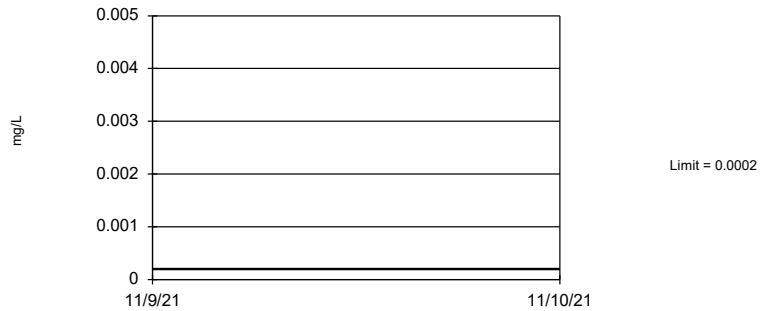
### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 202 background values. 39.6% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 197 background values. 64.97% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium, total Analysis Run 1/13/2022 4:20 PM View: UTLs  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

# Appendix IV - Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 7/22/2022, 12:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony, total (mg/L)	MW-1002	0.00006	0.00004	0.006	No	21	0.00001378	4.762	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602D	0.0001	0.00001	0.006	No	21	0.00004774	38.1	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1602I	0.00006585	0.0000311	0.006	No	21	0.00003586	4.762	sqrt(x)	0.01	Param.
Antimony, total (mg/L)	MW-1603D	0.0001	0.00002	0.006	No	21	0.00004041	42.86	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603I	0.0001	0.00003	0.006	No	21	0.0002135	4.762	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1603S	0.00005	0.00003	0.006	No	21	0.00001532	4.762	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604D	0.0001	0.00002	0.006	No	21	0.00004041	52.38	No	0.01	NP (NDs)
Antimony, total (mg/L)	MW-1604I	0.00009	0.00002	0.006	No	21	0.00005767	9.524	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1604S	0.00007	0.00005	0.006	No	21	0.00002022	0	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605D	0.0001	0.00001	0.006	No	21	0.00004094	42.86	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1605I	0.00005907	0.00003312	0.006	No	21	0.0000341	9.524	ln(x)	0.01	Param.
Antimony, total (mg/L)	MW-1605S	0.00006	0.00003	0.006	No	21	0.00003048	0	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606D	0.0001	0.00002	0.006	No	21	0.00003936	57.14	No	0.01	NP (NDs)
Antimony, total (mg/L)	MW-1606I	0.0001	0.00002	0.006	No	21	0.0000382	42.86	No	0.01	NP (normality)
Antimony, total (mg/L)	MW-1606S	0.00006307	0.00003865	0.006	No	21	0.00002874	9.524	ln(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1002	0.0002778	0.0002277	0.073	No	21	0.00005249	0	ln(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1602D	0.00952	0.008628	0.073	No	21	0.0008086	0	No	0.01	Param.
Arsenic, total (mg/L)	MW-1602I	0.0294	0.02168	0.073	No	21	0.006999	0	No	0.01	Param.
Arsenic, total (mg/L)	MW-1603D	0.01344	0.01179	0.073	No	21	0.001489	0	No	0.01	Param.
Arsenic, total (mg/L)	MW-1603I	0.0155	0.0125	0.073	No	21	0.04553	0	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1603S	0.0002329	0.0001681	0.073	No	21	0.00006272	0	sqrt(x)	0.01	Param.
Arsenic, total (mg/L)	MW-1604D	0.0184	0.0168	0.073	No	21	0.001391	0	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604I	0.0244	0.0187	0.073	No	21	0.008393	0	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1604S	0.0003	0.00018	0.073	No	21	0.0001393	0	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605D	0.02063	0.0183	0.073	No	21	0.002112	0	No	0.01	Param.
Arsenic, total (mg/L)	MW-1605I	0.0253	0.018	0.073	No	21	0.008039	0	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1605S	0.0006	0.00042	0.073	No	21	0.0006889	0	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1606D	0.0178	0.0139	0.073	No	21	0.002091	0	No	0.01	NP (normality)
Arsenic, total (mg/L)	MW-1606I	0.009322	0.005984	0.073	No	21	0.003026	0	No	0.01	Param.
Arsenic, total (mg/L)	MW-1606S	0.00026	0.00018	0.073	No	21	0.0001054	0	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1002	0.0214	0.0133	2	No	21	0.006086	0	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1602D	0.4732	0.4237	2	No	21	0.04488	0	No	0.01	Param.
Barium, total (mg/L)	MW-1602I	0.1279	0.1126	2	No	21	0.0138	0	No	0.01	Param.
Barium, total (mg/L)	MW-1603D	0.1193	0.1118	2	No	21	0.006794	0	No	0.01	Param.
Barium, total (mg/L)	MW-1603I	0.0942	0.0816	2	No	21	0.01492	0	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1603S	0.01551	0.01098	2	No	21	0.004101	0	No	0.01	Param.
Barium, total (mg/L)	MW-1604D	0.2562	0.2395	2	No	21	0.01512	0	No	0.01	Param.
Barium, total (mg/L)	MW-1604I	0.1224	0.1029	2	No	21	0.0177	0	No	0.01	Param.
Barium, total (mg/L)	MW-1604S	0.0188	0.012	2	No	21	0.007574	0	No	0.01	NP (normality)
Barium, total (mg/L)	MW-1605D	0.456	0.4201	2	No	21	0.03257	0	No	0.01	Param.
Barium, total (mg/L)	MW-1605I	0.1557	0.1359	2	No	21	0.01792	0	No	0.01	Param.
Barium, total (mg/L)	MW-1605S	0.009657	0.00718	2	No	21	0.002406	0	sqrt(x)	0.01	Param.
Barium, total (mg/L)	MW-1606D	0.4562	0.4018	2	No	21	0.0493	0	No	0.01	Param.
Barium, total (mg/L)	MW-1606I	0.0659	0.0539	2	No	21	0.01087	0	No	0.01	Param.
Barium, total (mg/L)	MW-1606S	0.01409	0.0114	2	No	21	0.002432	0	No	0.01	Param.
Beryllium, total (mg/L)	MW-1002	0.00005	0.00002	0.004	No	21	0.00001461	85.71	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602D	0.00005	0.00002	0.004	No	21	0.00001814	66.67	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1602I	0.00005	0.00001	0.004	No	21	0.00001903	71.43	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603D	0.00005	0.000049	0.004	No	21	0.00001081	85.71	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603I	0.000077	0.00003	0.004	No	21	0.00001473	76.19	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1603S	0.00005	0.00002	0.004	No	21	0.00001543	80.95	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604D	0.00005	0.00002	0.004	No	21	0.00001171	90.48	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604I	0.00005	0.000025	0.004	No	21	0.00001256	85.71	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1604S	0.000059	0.00002	0.004	No	21	0.00001464	80.95	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605D	0.00005	0.00002	0.004	No	21	0.00001065	90.48	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605I	0.00005	0.00002	0.004	No	21	0.00001487	85.71	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1605S	0.00005	0.00004	0.004	No	21	0.00001296	76.19	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606D	0.00005	0.00002	0.004	No	21	0.00001686	71.43	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606I	0.00005	0.00002	0.004	No	21	0.00001117	90.48	No	0.01	NP (NDs)
Beryllium, total (mg/L)	MW-1606S	0.00005	0.00002	0.004	No	21	0.00001798	71.43	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1002	0.00004	0.00002	0.005	No	21	0.00002914	0	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1602D	0.00002	0.00001	0.005	No	21	0.00001174	71.43	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1602I	0.00002	0.000007	0.005	No	21	0.00000729	57.14	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603D	0.00002	0.00001	0.005	No	21	0.000005963	71.43	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603I	0.00002	0.000016	0.005	No	21	0.000005396	66.67	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1603S	0.00003	0.00002	0.005	No	21	0.0001133	4.762	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1604D	0.00002	0.000008	0.005	No	21	0.000003763	85.71	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1604I	0.00002	0.000009	0.005	No	21	0.00002317	71.43	No	0.01	NP (NDs)

# Appendix IV - Confidence Intervals - All Results (No Significant) Page 2

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 7/22/2022, 12:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Cadmium, total (mg/L)	MW-1604S	0.00003	0.000018	0.005	No	21	0.00001599	0	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1605D	0.00002	0.000006	0.005	No	21	0.000004211	85.71	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605I	0.00002	0.000008	0.005	No	21	0.000006282	66.67	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1605S	0.000042	0.00003	0.005	No	21	0.00001807	0	No	0.01	NP (normality)
Cadmium, total (mg/L)	MW-1606D	0.00002	0.000007	0.005	No	21	0.000002837	85.71	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606I	0.00002	0.00001	0.005	No	21	0.000005841	71.43	No	0.01	NP (NDs)
Cadmium, total (mg/L)	MW-1606S	0.00003721	0.00002389	0.005	No	21	0.00001262	0	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1002	0.0002611	0.0001087	0.1	No	21	0.0001618	4.762	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1602D	0.0004305	0.0001908	0.1	No	21	0.0002741	0	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1602I	0.0002922	0.0001638	0.1	No	21	0.0001164	4.762	No	0.01	Param.
Chromium, total (mg/L)	MW-1603D	0.0002472	0.0001394	0.1	No	20	0.00009483	0	No	0.01	Param.
Chromium, total (mg/L)	MW-1603I	0.0004275	0.0001581	0.1	No	21	0.0002876	0	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1603S	0.0003247	0.0001585	0.1	No	21	0.0001506	0	No	0.01	Param.
Chromium, total (mg/L)	MW-1604D	0.0001867	0.0001002	0.1	No	21	0.00007836	0	No	0.01	Param.
Chromium, total (mg/L)	MW-1604I	0.0002669	0.0001099	0.1	No	21	0.0001628	0	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1604S	0.0002988	0.0001275	0.1	No	21	0.0001813	0	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605D	0.0002701	0.0001389	0.1	No	21	0.0001329	0	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605I	0.000232	0.0001074	0.1	No	21	0.0002391	4.762	ln(x)	0.01	Param.
Chromium, total (mg/L)	MW-1605S	0.0007105	0.0002689	0.1	No	21	0.0004002	0	No	0.01	Param.
Chromium, total (mg/L)	MW-1606D	0.0002621	0.0001126	0.1	No	21	0.0001588	4.762	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1606I	0.0002373	0.0001106	0.1	No	21	0.0001291	9.524	sqrt(x)	0.01	Param.
Chromium, total (mg/L)	MW-1606S	0.0003815	0.0001655	0.1	No	21	0.0003313	4.762	ln(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1002	0.0007166	0.0005401	0.006	No	21	0.00016	0	No	0.01	Param.
Cobalt, total (mg/L)	MW-1602D	0.000171	0.00007658	0.006	No	21	0.0001779	0	ln(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1602I	0.001542	0.001296	0.006	No	21	0.0002237	0	No	0.01	Param.
Cobalt, total (mg/L)	MW-1603D	0.000586	0.000286	0.006	No	21	0.0004515	0	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603I	0.00139	0.00116	0.006	No	21	0.0005022	0	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1603S	0.0004682	0.0002323	0.006	No	21	0.0002138	0	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604D	0.000072	0.00005	0.006	No	21	0.00002163	0	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1604I	0.0008414	0.0006601	0.006	No	21	0.0001644	0	No	0.01	Param.
Cobalt, total (mg/L)	MW-1604S	0.000384	0.000285	0.006	No	21	0.0002245	0	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1605D	0.0001306	0.00007238	0.006	No	21	0.00006478	0	x^(1/3)	0.01	Param.
Cobalt, total (mg/L)	MW-1605I	0.001501	0.00128	0.006	No	21	0.0002	0	No	0.01	Param.
Cobalt, total (mg/L)	MW-1605S	0.000575	0.000343	0.006	No	21	0.0009287	0	No	0.01	NP (normality)
Cobalt, total (mg/L)	MW-1606D	0.00009472	0.00006006	0.006	No	20	0.00003329	0	sqrt(x)	0.01	Param.
Cobalt, total (mg/L)	MW-1606I	0.001393	0.001029	0.006	No	21	0.00033	0	No	0.01	Param.
Cobalt, total (mg/L)	MW-1606S	0.000141	0.000051	0.006	No	21	0.0001975	4.762	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-1002	1.29	0.489	5	No	21	0.8443	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602D	1.807	0.9942	5	No	21	0.8504	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1602I	1.292	0.8788	5	No	21	0.3748	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603D	1.531	0.8701	5	No	21	0.5988	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603I	1.714	1.057	5	No	21	0.5957	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1603S	1.07	0.4854	5	No	21	0.6459	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604D	1.314	0.7753	5	No	21	0.4881	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604I	1.609	0.8678	5	No	21	0.7471	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1604S	0.9821	0.4136	5	No	21	0.6019	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605D	1.451	0.9444	5	No	21	0.4593	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605I	2.075	1.475	5	No	21	0.543	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1605S	1.128	0.4057	5	No	21	0.6549	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606D	1.388	0.7492	5	No	21	0.5787	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606I	1.338	0.7827	5	No	21	0.7931	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-1606S	1.015	0.4363	5	No	21	0.5247	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1002	0.9997	0.8613	4	No	21	0.1254	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602D	0.3428	0.3144	4	No	21	0.02575	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1602I	0.3056	0.2811	4	No	21	0.02221	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603D	0.3037	0.2801	4	No	21	0.02136	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603I	0.4417	0.4069	4	No	21	0.03155	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1603S	0.7582	0.499	4	No	21	0.235	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604D	0.2834	0.2585	4	No	21	0.02256	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604I	0.3688	0.3284	4	No	21	0.03665	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1604S	1.04	0.89	4	No	21	0.1843	0	No	0.01	NP (normality)
Fluoride, total (mg/L)	MW-1605D	0.2239	0.1989	4	No	21	0.02265	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1605I	0.2196	0.1887	4	No	21	0.03192	0	x^2	0.01	Param.
Fluoride, total (mg/L)	MW-1605S	0.5727	0.5159	4	No	21	0.05144	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606D	0.1966	0.1777	4	No	21	0.01707	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606I	0.2138	0.1891	4	No	21	0.02242	0	No	0.01	Param.
Fluoride, total (mg/L)	MW-1606S	0.5091	0.4252	4	No	21	0.0761	0	No	0.01	Param.
Lead, total (mg/L)	MW-1002	0.0002	0.000026	0.015	No	21	0.0000878	47.62	No	0.01	NP (normality)

# Appendix IV - Confidence Intervals - All Results (No Significant)

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 7/22/2022, 12:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Lead, total (mg/L)	MW-1602D	0.0001293	0.00002797	0.015	No	21	0.0001902	38.1	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1602I	0.0001745	0.0000613	0.015	No	21	0.0001002	28.57	No	0.01	Param.
Lead, total (mg/L)	MW-1603D	0.00008034	0.00001418	0.015	No	20	0.0001182	40	sqrt(x)	0.01	Param.
Lead, total (mg/L)	MW-1603I	0.000223	0.00004676	0.015	No	21	0.0003318	19.05	x^(1/3)	0.01	Param.
Lead, total (mg/L)	MW-1603S	0.0002	0.000047	0.015	No	21	0.00008306	52.38	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1604D	0.0002	0.000022	0.015	No	21	0.00008541	42.86	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604I	0.0002	0.00002	0.015	No	21	0.00008669	42.86	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1604S	0.0002	0.00004	0.015	No	20	0.00009082	45	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1605D	0.0002	0.000037	0.015	No	21	0.00009006	52.38	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1605I	0.0001595	0.00007943	0.015	No	21	0.00007258	14.29	No	0.01	Param.
Lead, total (mg/L)	MW-1605S	0.0001634	0.00003495	0.015	No	21	0.0005174	28.57	ln(x)	0.01	Param.
Lead, total (mg/L)	MW-1606D	0.0002	0.000023	0.015	No	21	0.00008552	47.62	No	0.01	NP (normality)
Lead, total (mg/L)	MW-1606I	0.0002	0.000034	0.015	No	21	0.00008139	52.38	No	0.01	NP (NDs)
Lead, total (mg/L)	MW-1606S	0.0001433	0.00002587	0.015	No	20	0.0001071	40	No	0.01	Param.
Lithium, total (mg/L)	MW-1002	0.009395	0.004804	0.04	No	21	0.004494	14.29	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1602D	0.006976	0.002719	0.04	No	21	0.005286	4.762	x^(1/3)	0.01	Param.
Lithium, total (mg/L)	MW-1602I	0.009086	0.004952	0.04	No	21	0.003747	4.762	No	0.01	Param.
Lithium, total (mg/L)	MW-1603D	0.008	0.00323	0.04	No	21	0.003912	9.524	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1603I	0.01135	0.007177	0.04	No	21	0.003782	14.29	No	0.01	Param.
Lithium, total (mg/L)	MW-1603S	0.008648	0.003688	0.04	No	21	0.004901	14.29	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1604D	0.01	0.00139	0.04	No	21	0.005387	19.05	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1604I	0.01004	0.006215	0.04	No	21	0.003469	4.762	No	0.01	Param.
Lithium, total (mg/L)	MW-1604S	0.0124	0.009037	0.04	No	21	0.00305	4.762	No	0.01	Param.
Lithium, total (mg/L)	MW-1605D	0.005039	0.002204	0.04	No	21	0.003959	9.524	ln(x)	0.01	Param.
Lithium, total (mg/L)	MW-1605I	0.01	0.00482	0.04	No	21	0.003255	0	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1605S	0.01537	0.01135	0.04	No	21	0.003645	4.762	No	0.01	Param.
Lithium, total (mg/L)	MW-1606D	0.007	0.000505	0.04	No	21	0.005102	14.29	No	0.01	NP (normality)
Lithium, total (mg/L)	MW-1606I	0.007642	0.00418	0.04	No	21	0.003455	4.762	sqrt(x)	0.01	Param.
Lithium, total (mg/L)	MW-1606S	0.01166	0.008706	0.04	No	21	0.002675	4.762	No	0.01	Param.
Mercury, total (mg/L)	MW-1002	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602D	0.000005	0.000003	0.002	No	20	4.5e-7	90	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1602I	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603D	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603I	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1603S	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604D	0.000005	0.000002	0.002	No	20	6.7e-7	90	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604I	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1604S	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605D	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605I	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1605S	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606D	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606I	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Mercury, total (mg/L)	MW-1606S	0.000005	0.000005	0.002	No	20	2.8e-14	95	No	0.01	NP (NDs)
Molybdenum, total (mg/L)	MW-1002	0.007345	0.004231	0.1	No	21	0.002822	0	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1602D	0.003729	0.003302	0.1	No	21	0.003867	0	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1602I	0.0023	0.00202	0.1	No	21	0.0001915	0	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1603D	0.005022	0.003937	0.1	No	21	0.001034	0	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1603I	0.008169	0.006218	0.1	No	21	0.001768	0	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1603S	0.0008218	0.0002902	0.1	No	21	0.0006141	19.05	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1604D	0.002992	0.002539	0.1	No	21	0.0004279	0	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1604I	0.002674	0.002321	0.1	No	21	0.00032	0	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1604S	0.003188	0.002284	0.1	No	21	0.0008277	0	sqrt(x)	0.01	Param.
Molybdenum, total (mg/L)	MW-1605D	0.00221	0.00197	0.1	No	20	0.0003344	0	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1605I	0.001277	0.001092	0.1	No	20	0.0001631	0	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1605S	0.002052	0.001721	0.1	No	21	0.0003271	0	x^2	0.01	Param.
Molybdenum, total (mg/L)	MW-1606D	0.0021	0.00177	0.1	No	21	0.0004496	0	No	0.01	NP (normality)
Molybdenum, total (mg/L)	MW-1606I	0.001498	0.001106	0.1	No	20	0.0003451	0	No	0.01	Param.
Molybdenum, total (mg/L)	MW-1606S	0.0013	0.001	0.1	No	20	0.0002891	0	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1002	0.0001	0.00007	0.05	No	21	0.0001701	19.05	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1602D	0.0005	0.00005	0.05	No	21	0.0002248	47.62	No	0.01	NP (normality)
Selenium, total (mg/L)	MW-1602I	0.0005	0.00005	0.05	No	21	0.0002259	52.38	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603D	0.0005	0.00004	0.05	No	21	0.0002205	57.14	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603I	0.0005	0.0001	0.05	No	21	0.0001998	66.67	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1603S	0.0003319	0.0001015	0.05	No	21	0.0003366	14.29	x^(1/3)	0.01	Param.
Selenium, total (mg/L)	MW-1604D	0.0005	0.0001	0.05	No	21	0.0001785	80.95	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604I	0.0005	0.00007	0.05	No	21	0.0002205	57.14	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1604S	0.0001484	0.00006963	0.05	No	21	0.0001015	4.762	x^(1/3)	0.01	Param.

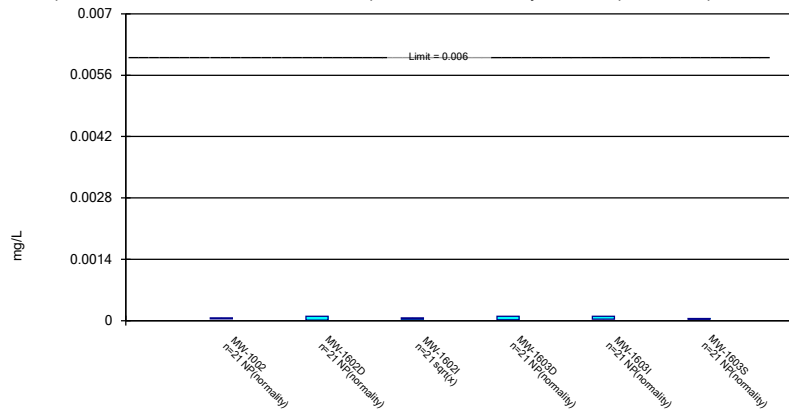
# Appendix IV - Confidence Intervals - All Results (No Significant) Page 4

Rockport BAP Client: Geosyntec Data: Rockport\_BAP Printed 7/22/2022, 12:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Selenium, total (mg/L)	MW-1605D	0.0005	0.00005	0.05	No	21	0.0002192	66.67	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605I	0.0005	0.00006	0.05	No	21	0.0002231	61.9	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1605S	0.001027	0.000535	0.05	No	20	0.0004333	0	No	0.01	Param.
Selenium, total (mg/L)	MW-1606D	0.0005	0.00009	0.05	No	21	0.0002025	71.43	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606I	0.0005	0.0001	0.05	No	21	0.0001959	76.19	No	0.01	NP (NDs)
Selenium, total (mg/L)	MW-1606S	0.004154	0.002806	0.05	No	21	0.001222	0	No	0.01	Param.
Thallium, total (mg/L)	MW-1002	0.0002	0.00003	0.002	No	21	0.0000857	52.38	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1602D	0.0002	0.000066	0.002	No	21	0.00006539	80.95	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1602I	0.0002	0.00003	0.002	No	21	0.00008829	57.14	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603D	0.0002	0.00005	0.002	No	21	0.00007558	71.43	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603I	0.0002	0.00004	0.002	No	21	0.00008372	52.38	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1603S	0.0002	0.00003	0.002	No	21	0.00008512	52.38	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604D	0.0002	0.000095	0.002	No	21	0.00006458	80.95	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604I	0.0002	0.00002	0.002	No	21	0.00008828	52.38	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1604S	0.0002	0.00003	0.002	No	21	0.00008274	52.38	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605D	0.0002	0.00005	0.002	No	21	0.00006128	85.71	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605I	0.0002	0.00003	0.002	No	21	0.00008466	52.38	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1605S	0.0002	0.00003	0.002	No	21	0.00008252	42.86	No	0.01	NP (normality)
Thallium, total (mg/L)	MW-1606D	0.0002	0.000124	0.002	No	21	0.00006074	80.95	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1606I	0.0002	0.00004	0.002	No	21	0.00008039	52.38	No	0.01	NP (NDs)
Thallium, total (mg/L)	MW-1606S	0.0002	0.00002	0.002	No	21	0.00008741	57.14	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

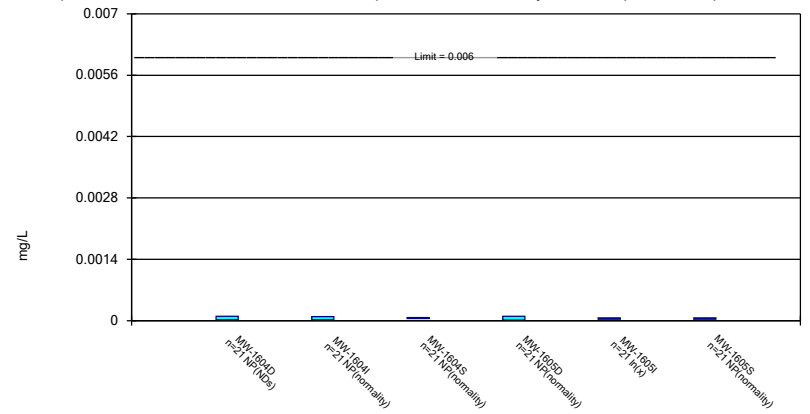
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

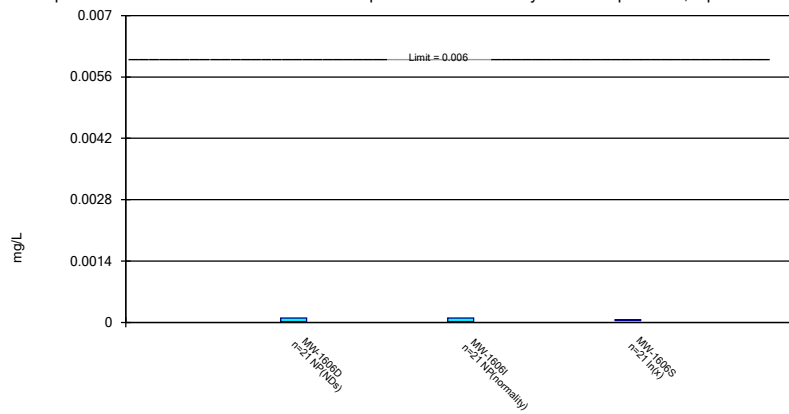
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

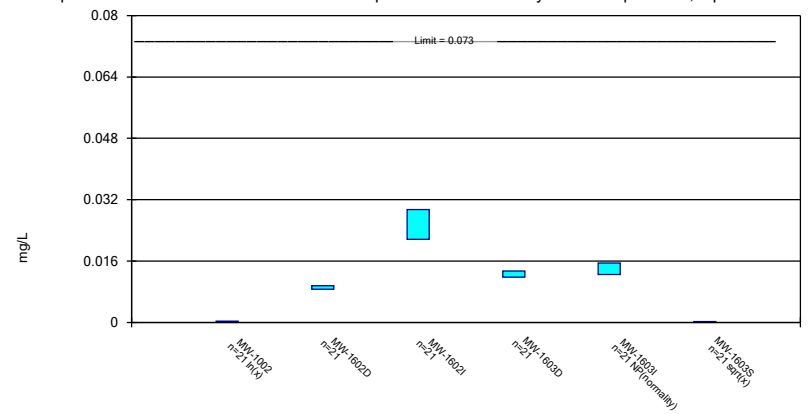
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

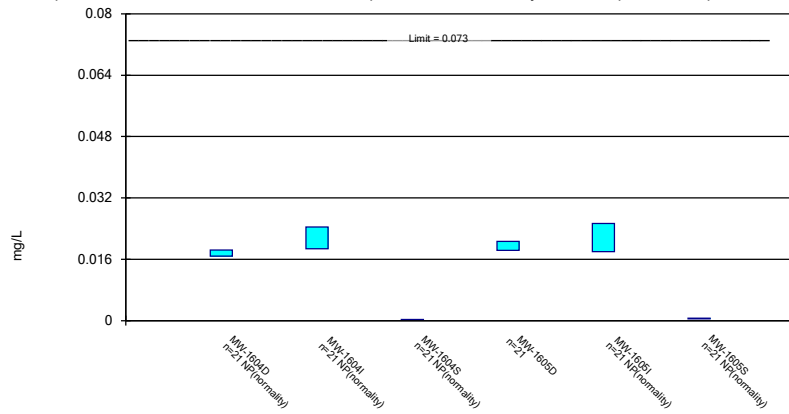
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

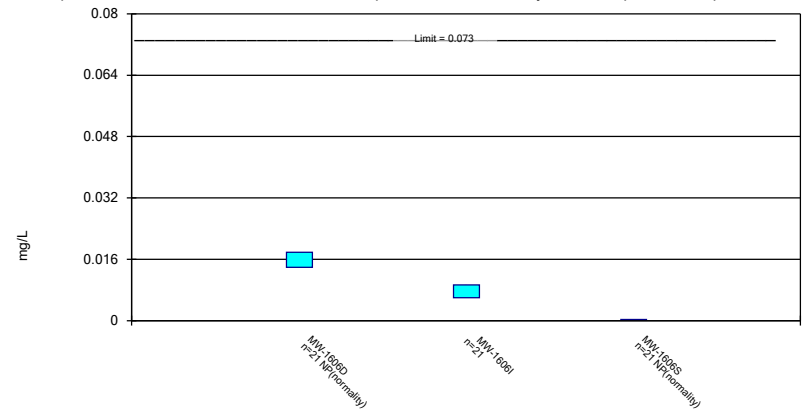
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

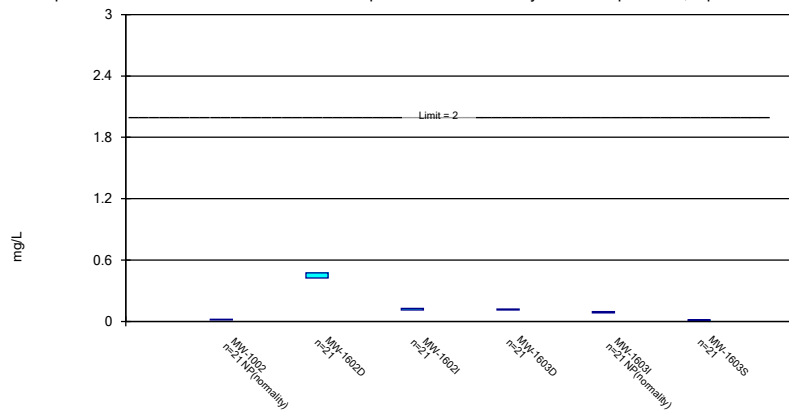
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

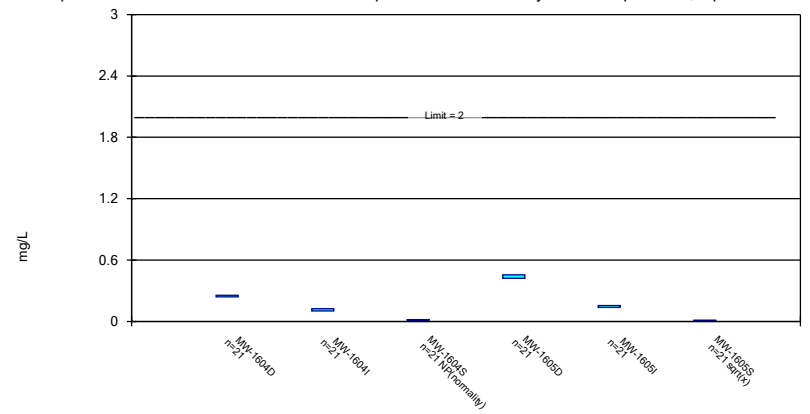
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 7/22/2022 12:41 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.

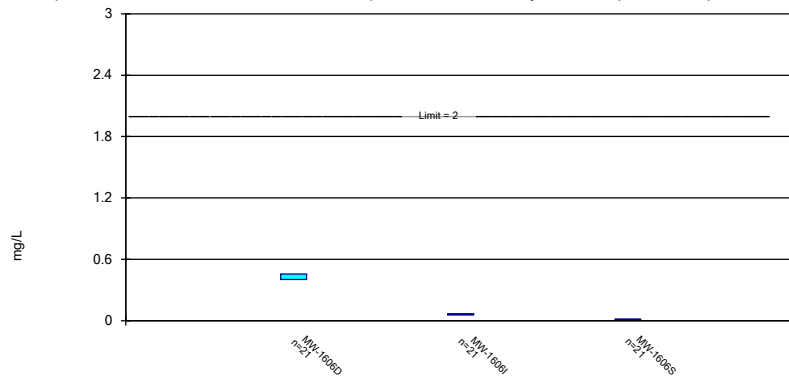


Constituent: Barium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



### Parametric Confidence Interval

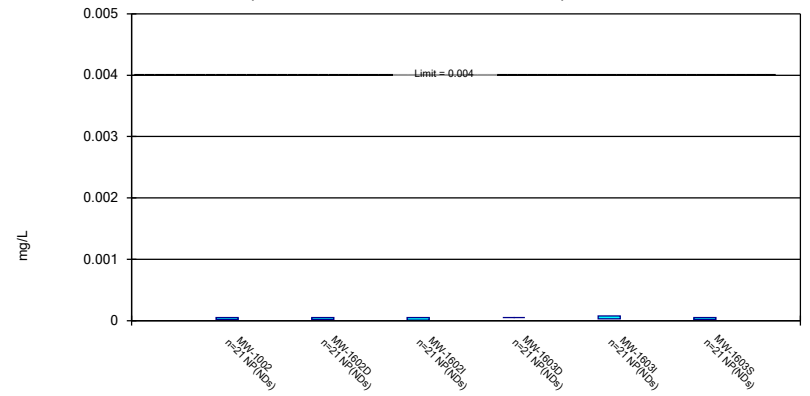
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

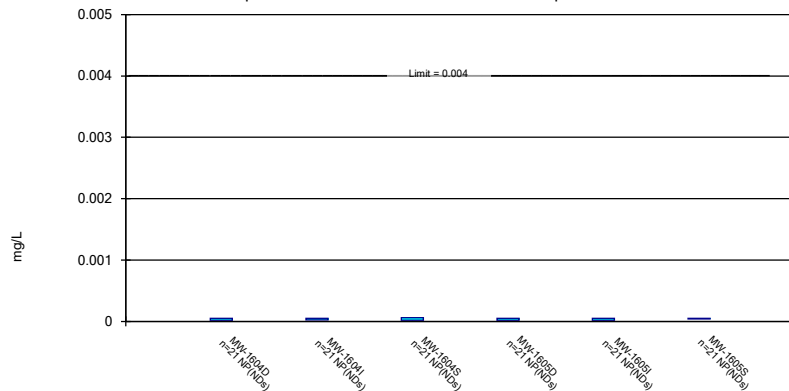
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

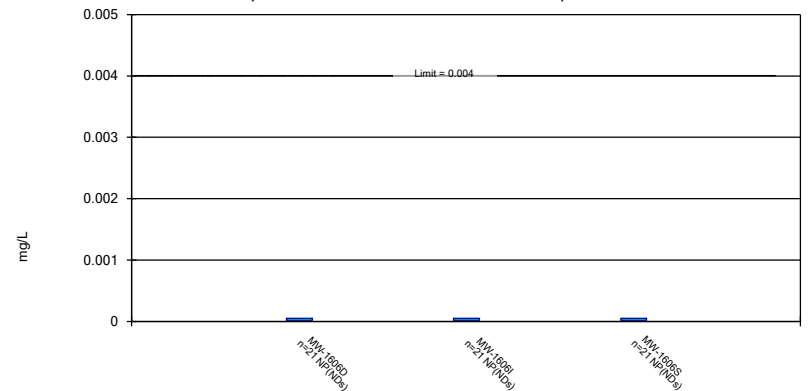
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

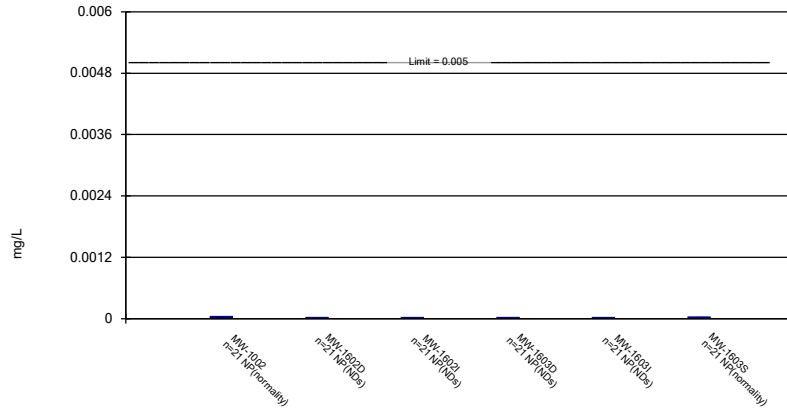
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

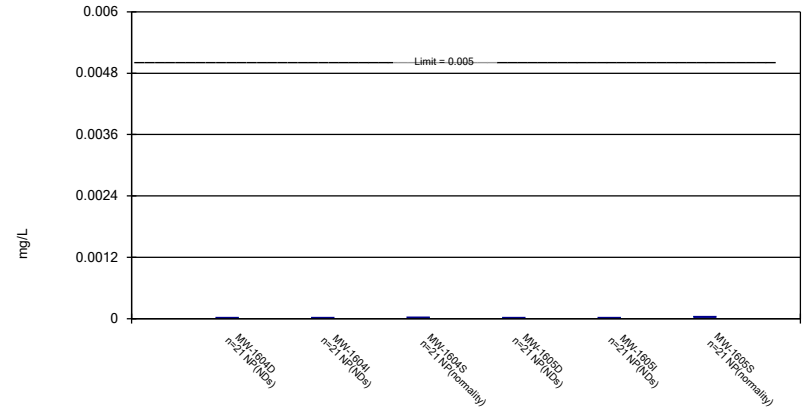
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

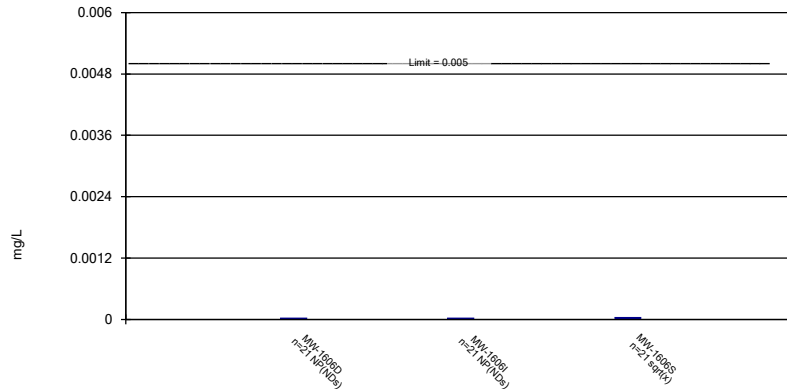
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

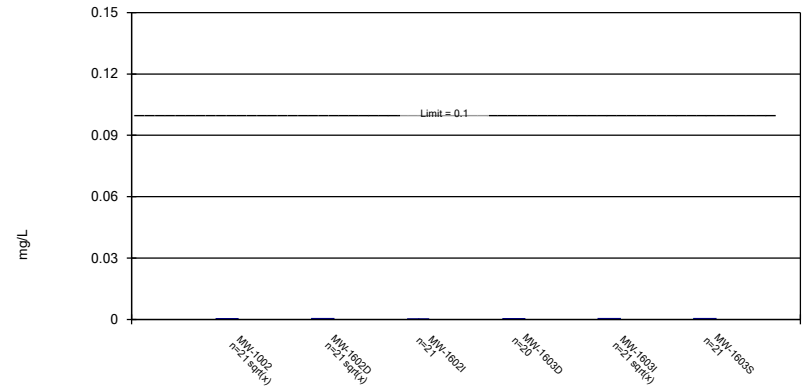
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Constituent: Cadmium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

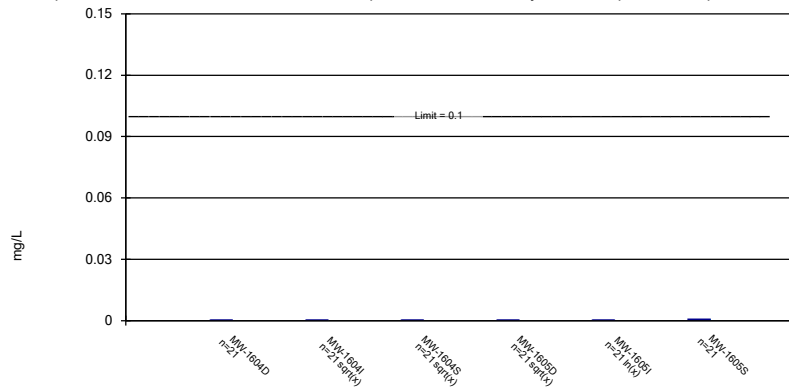
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

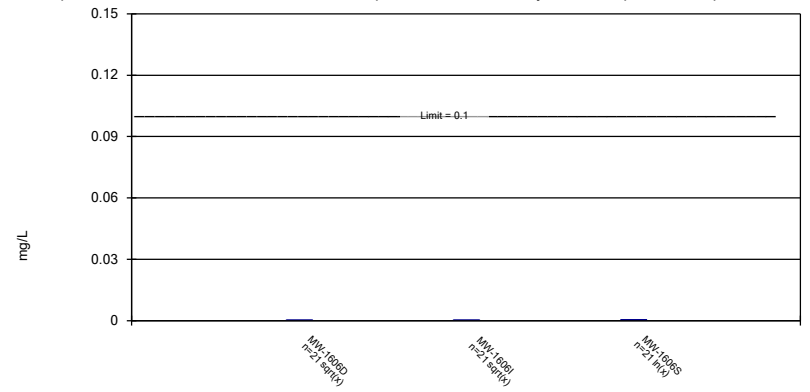
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

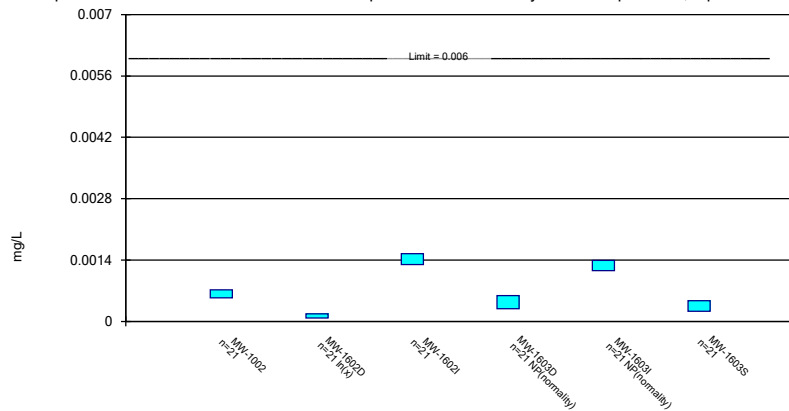
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Constituent: Chromium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

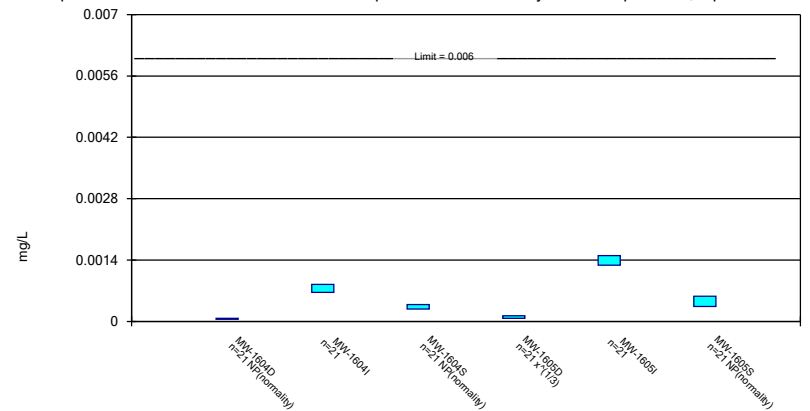
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

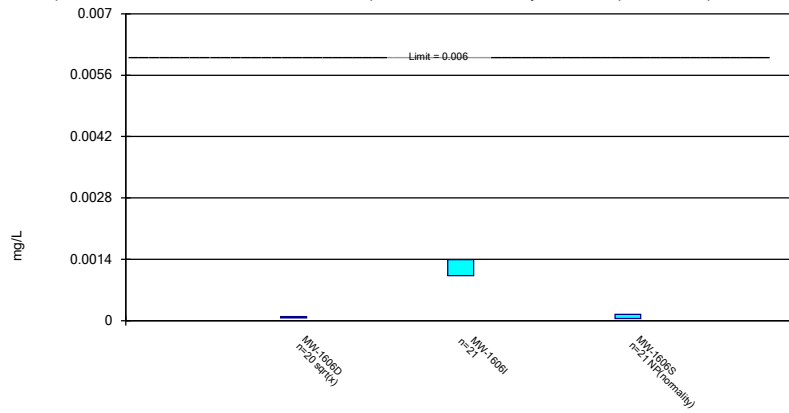
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Constituent: Cobalt, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

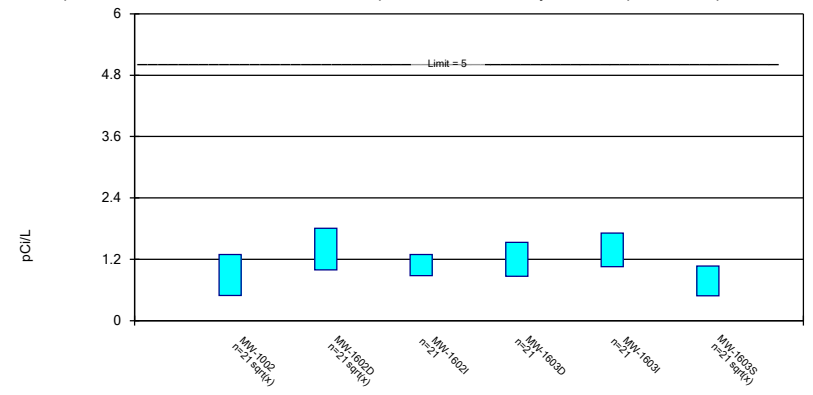
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Constituent: Cobalt, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

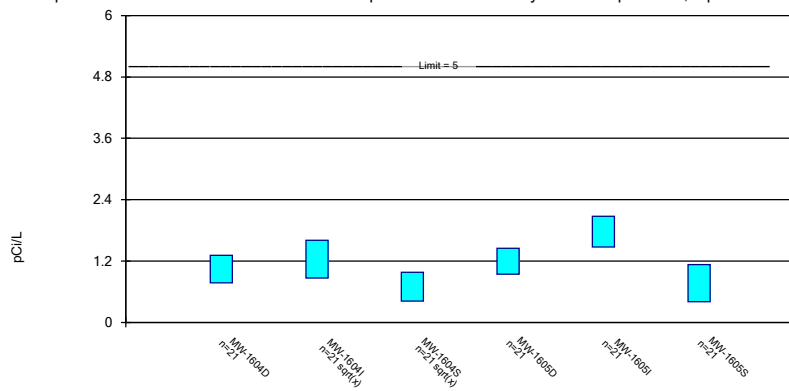
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Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

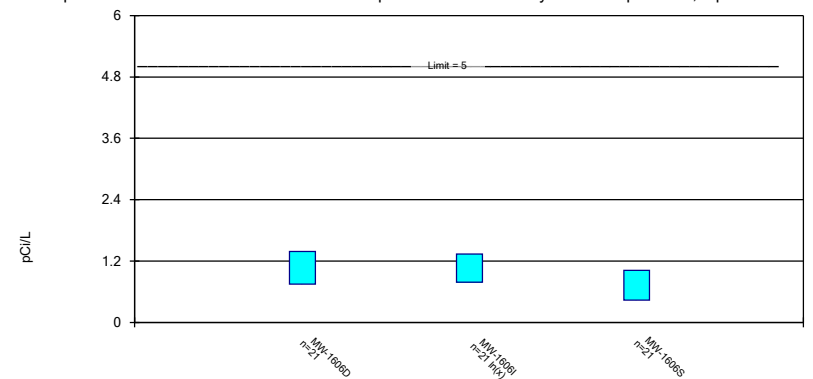
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Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

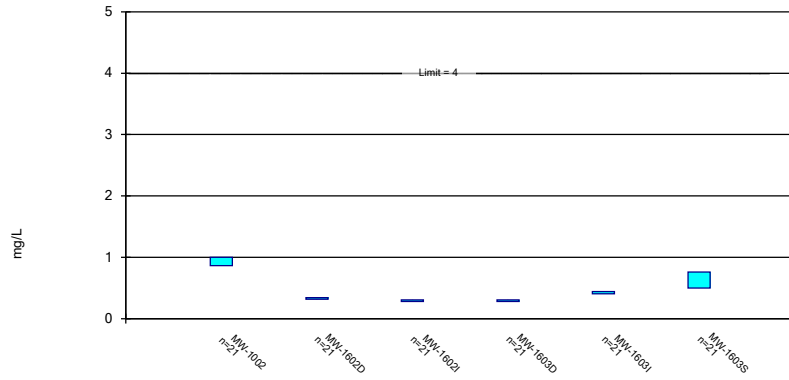
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Constituent: Combined Radium 226 + 228 Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

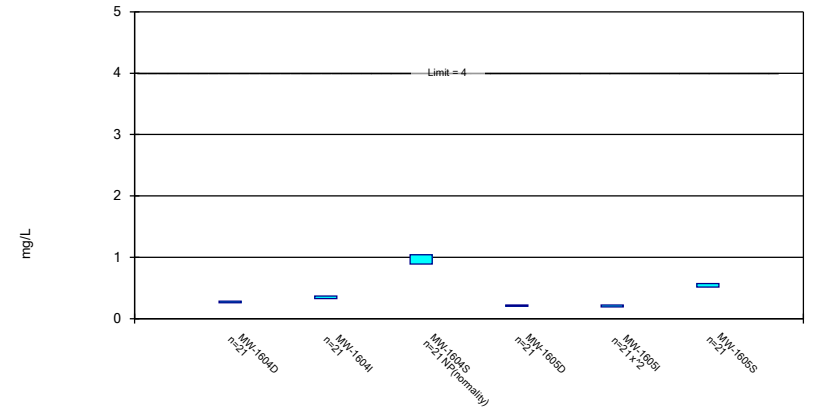
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

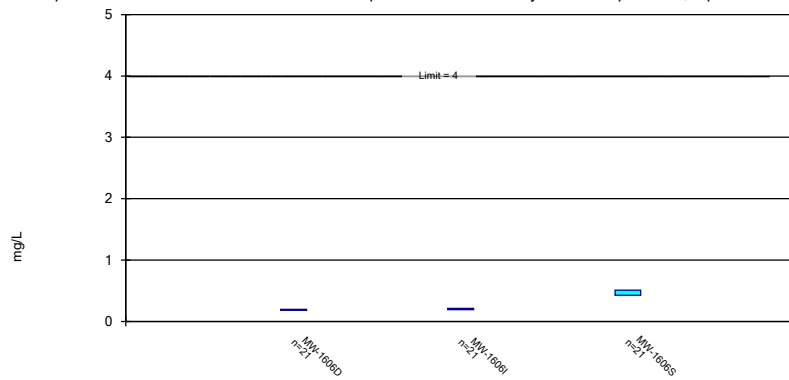
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Constituent: Fluoride, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric Confidence Interval

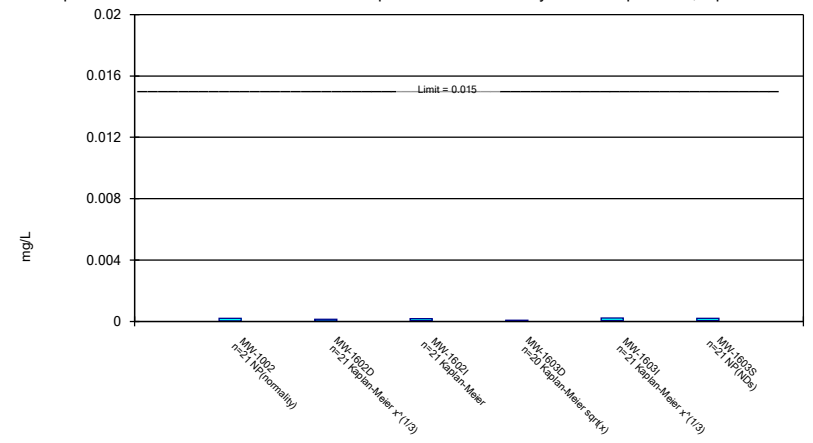
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

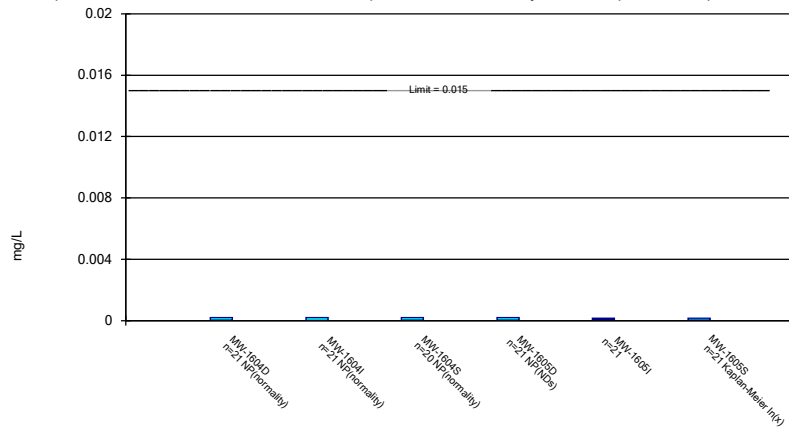
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

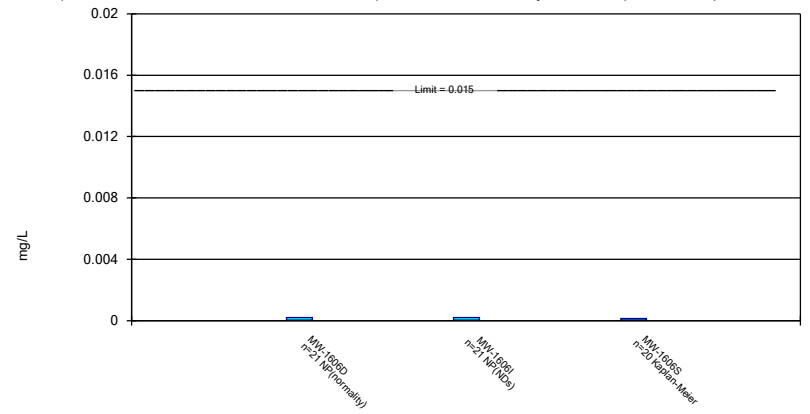
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

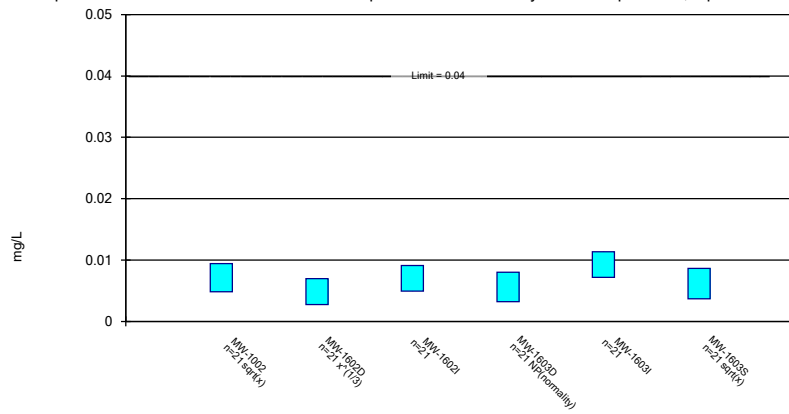
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Constituent: Lead, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

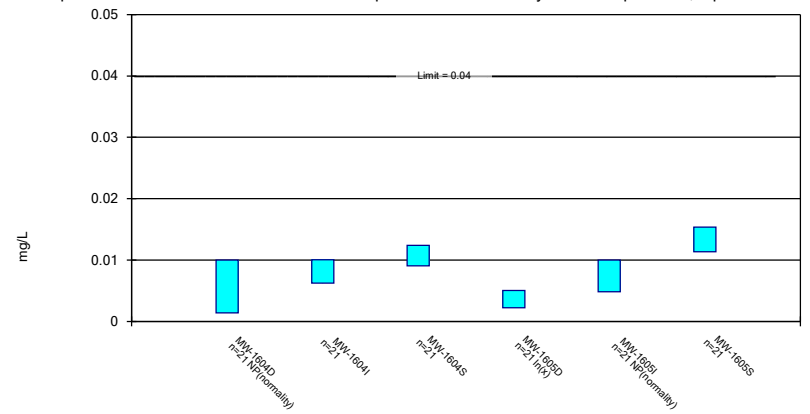
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

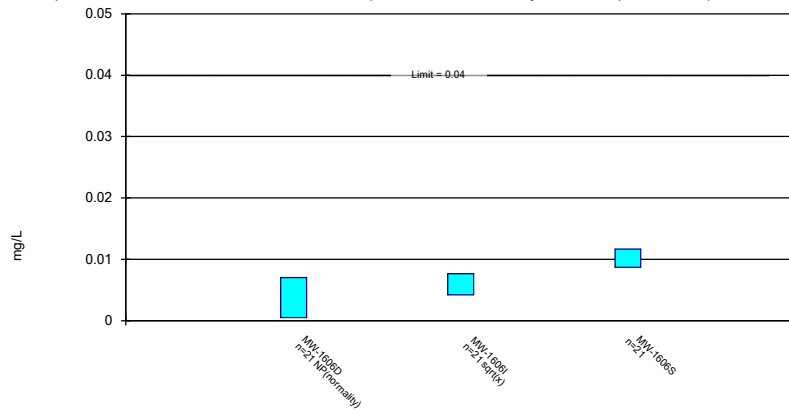
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

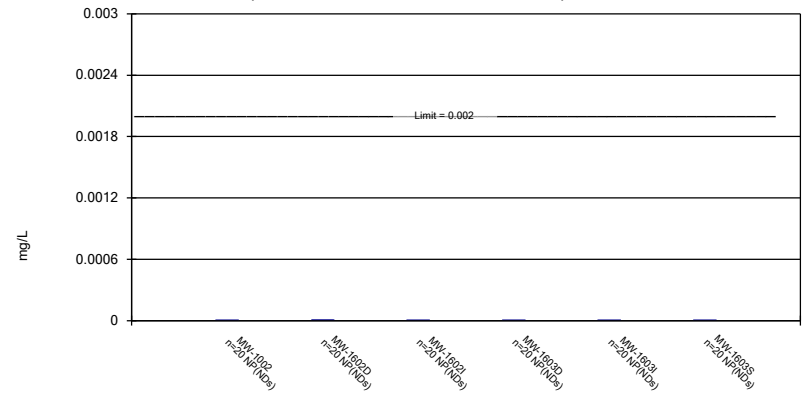
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

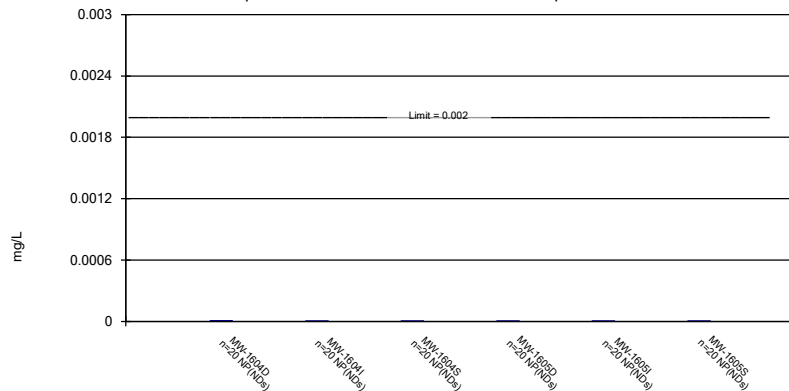
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

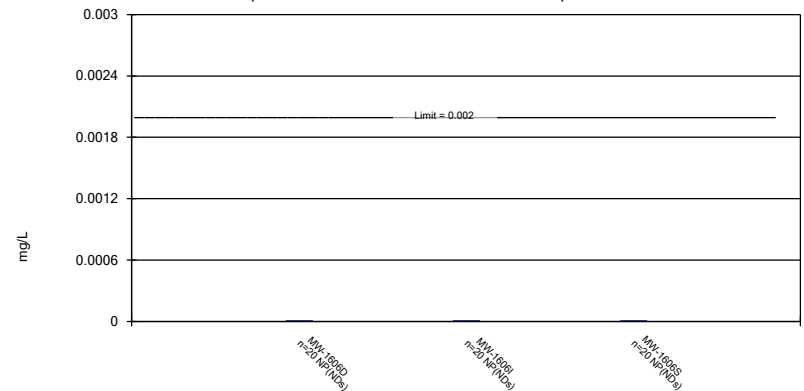
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

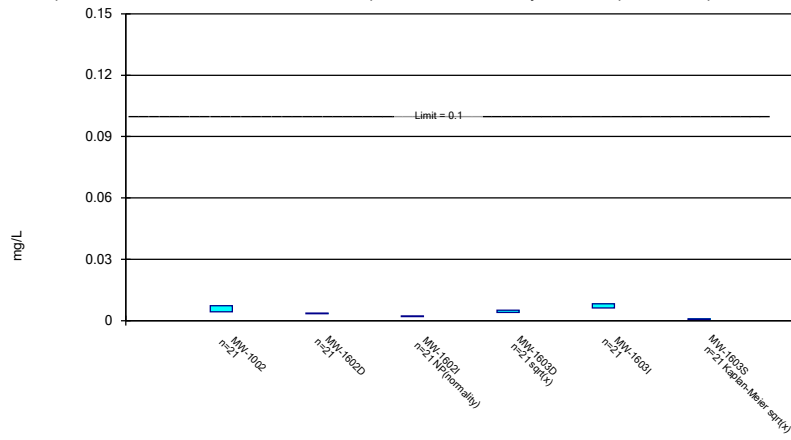
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

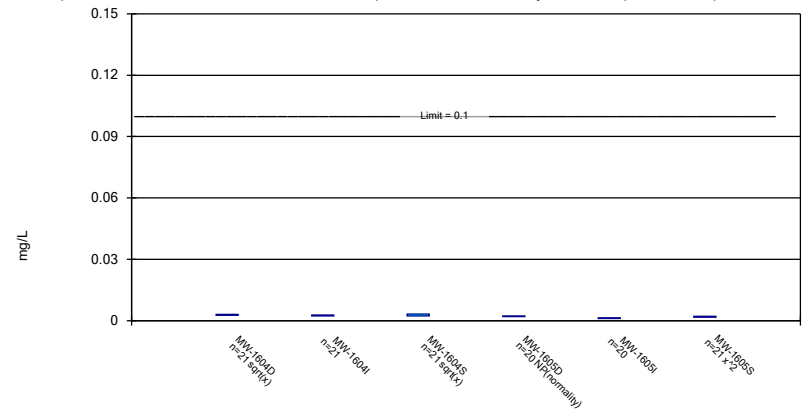
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

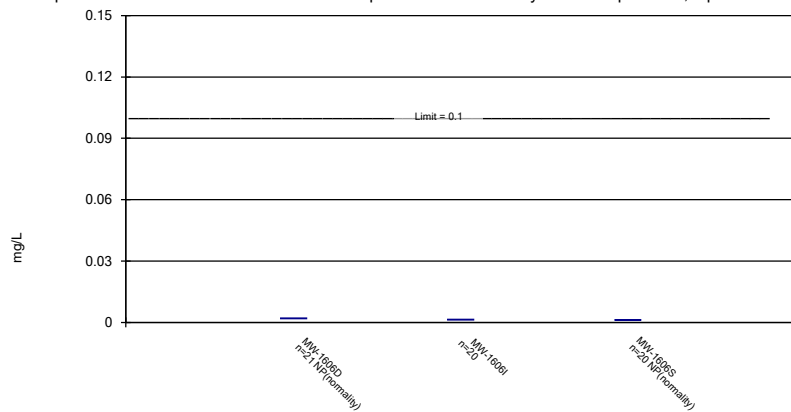
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

Parametric and Non-Parametric (NP) Confidence Interval

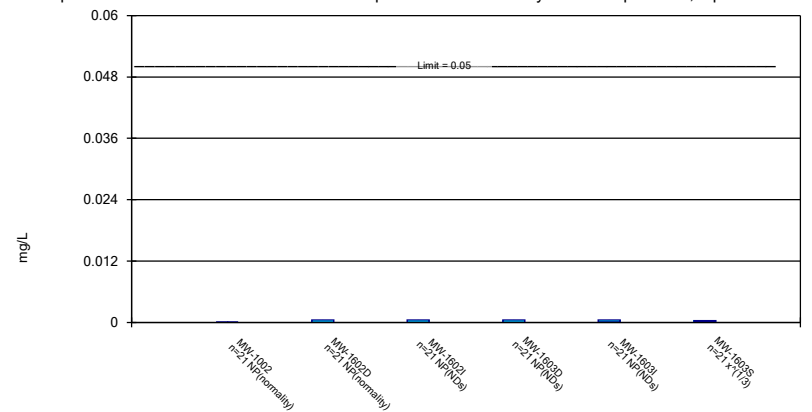
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum, total Analysis Run 7/22/2022 12:41 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.

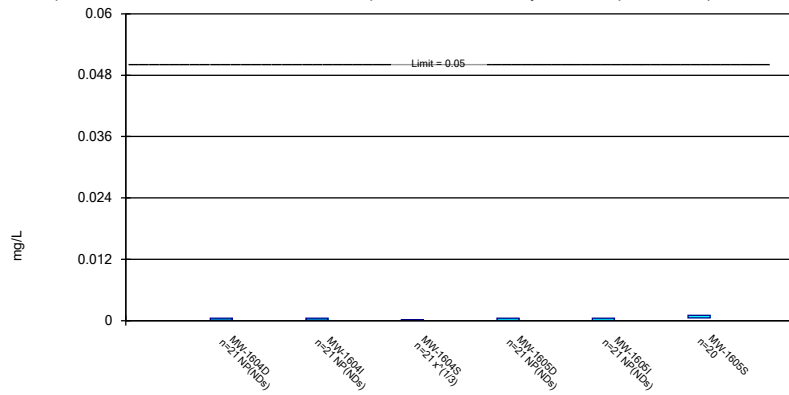


Constituent: Selenium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP



### Parametric and Non-Parametric (NP) Confidence Interval

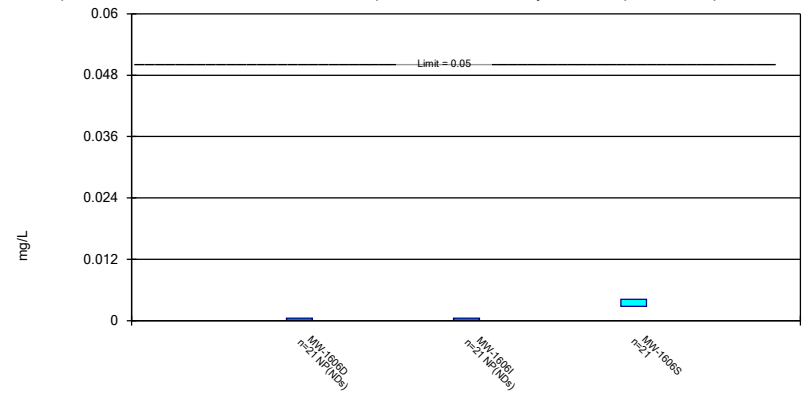
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Parametric and Non-Parametric (NP) Confidence Interval

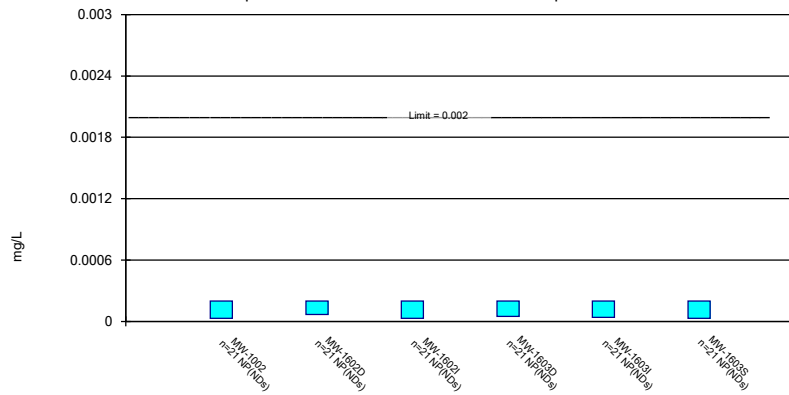
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

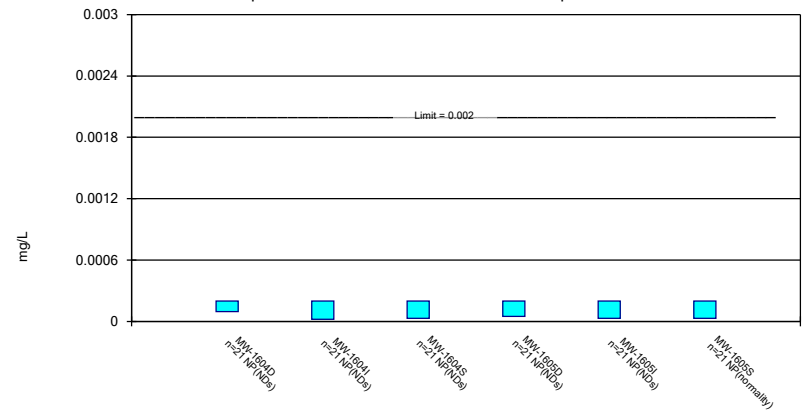
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

### Non-Parametric Confidence Interval

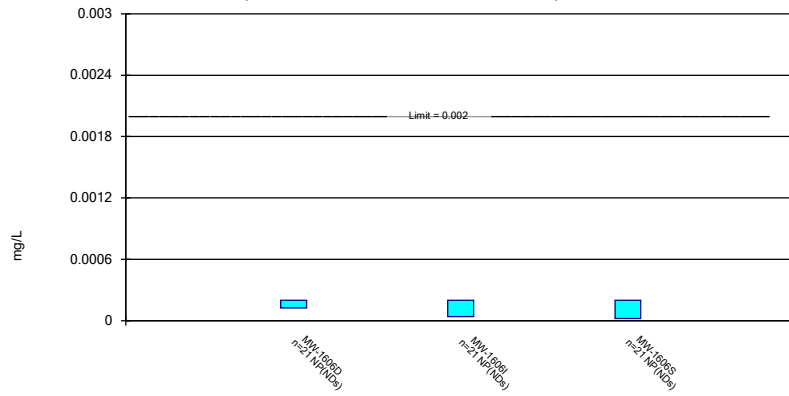
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium, total Analysis Run 7/22/2022 12:41 PM View: Confidence Intervals  
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 7/22/2022 12:41 PM View: Confidence Intervals  
Rockport BAP Client: Geosyntec Data: Rockport\_BAP

**APPENDIX 3 – Alternate Source Demonstrations**

No new alternate source demonstrations have been completed as of January 31, 2023.

## **APPENDIX 4 – Notices for Monitoring Program Transitions**

The notification that an assessment monitoring program was initiated follows.

## **Rockport Plant Bottom Ash Pond**

### **Notice of Assessment Monitoring Initiation**

On January 15, 2018, it was determined that the Rockport Plant's Bottom Ash Pond Complex had statistically significant increases over background for the Appendix III parameters of boron, chloride, fluoride, pH, TDS, and sulfate. An alternative source demonstration was not successful within the 90 day period as allowed for in 257.94(e)(2). Therefore, an assessment monitoring program was established at Rockport's bottom ash pond complex on April 15, 2018 and this notice is being placed in Rockport's operating record in accordance with the requirement in 257.94 (e)(3).

**APPENDIX 5 – Well Installation/Decommissioning Logs**

There were no wells installed or decommissioned during the reporting period.