

Eviron Road Quarry Landfill
Annual Environmental Management Review 2022
Stage 1 (Application No.08_0068)

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Executive Summary

In December 2012, Council sought an approval from the NSW Department of Planning, Industry and Environment (formerly known as the Department of Planning and Infrastructure (DoPI)) to develop new waste infrastructure at Eviron Road, Eviron. Approval was granted (Project Approval 08_0068) following an environmental assessment prepared by GHD Pty Ltd (GHD) in accordance with the requirements of Part 3A of the Environmental Planning and Assessment Act 1979 (EP&A Act). This approval includes:

- A landfill within the void space created by Quirks Quarry
- Development of two further quarries to be used as landfills after exhaustion of quarry resources and
- Operational infrastructure such as haul roads, an acid sulphate soil treatment area and other service buildings/storage facilities as required.

Construction works under this approval have commenced for Stage 1 of the project which includes:

- Construction of a Haul Road from the existing Tweed Recycling and Landfill Centre to the new landfill at Quirks Quarry; and
- Construction of a new landfill in the void of the existing Quirks Quarry; and
- Construction of a new quarry at the site known as the West Valley.

The purpose of this report is to satisfy the requirements of Schedule 6, Condition 6 of Project Approval 08_0068, namely that an Annual Review be produced detailing the works carried out in the previous twelve months, being the reporting period from 1 January 2022 to 31 December 2022. The works carried out during this period are summarised as follows:

Management Plans

In the 2022 reporting period no new management plans were prepared, however, Council continued negotiations with the NSW Department of Planning, Industry and Environment to obtain outstanding approvals for both the Biodiversity Offset Strategy and the Landscape Management Plan. It is anticipated that the approval of both plans will be finalised in 2023.

General Activities

During the 2022 reporting period, the following general activities were carried out at the site:

- Ongoing environmental baseline monitoring of groundwater and surface water as per the Environmental Assessment recommendations.
- Monitoring, maintenance and rectification (as required) of vegetation protection measures installed at the site.
- Monitoring, maintenance and rectification (as required) of environmental controls installed at the site.

Construction Activities

Construction activities undertaken during the 2022 reporting period comprised of further works associated with the construction of the haul road. Specifically, these works included:

- Importation, placement and compaction of approximately 6,050m³ of loose imported fill material, including EPRM under Council's Resource Recovery Order and Exemption, June 2022. The placement of Imported fill material was generally concentrated in the soft soil areas at either ends of the alignment.
- Management and maintenance of the fob activated boom gate at the entry to the site to manage, control and monitor all material coming into the site during construction.
- Installation, monitoring and maintenance of permanent and temporary erosion and sediment controls in current active areas of disturbance.
- Surveying of alignment footprint

Biodiversity Offsets

During the 2022 reporting period the 5-year maintenance program was finalised following the completion of a final maintenance and weed control event in February. Significant growth of planted trees and effective weed control, including stem injection of Camphor laurel, has provided a positive impact on the success of the planted biodiversity offset for this development. A copy of the 2022 Revegetation Maintenance Report is provided in Appendix B. Going forward, no further weed control is proposed at this stage within the offset areas.

Complaints

During the 2022 reporting period no complaints were received relating to the project.

Statement of Compliance

Table 1: Statement of compliance

Were all conditions of the relevant approval complied with	
Schedule 2	YES / NO
Schedule 3	YES / NO
Schedule 4	YES / NO
Schedule 6	YES / NO
Appendix 1	YES / NO

Table 2: Non compliances

Approval condition	Condition Description	Compliance Status	Comment
Schedule 4, Condition 29	<p>By 31 December 2013, unless the Director-General agrees otherwise, the Proponent shall:</p> <p>(a) implement the biodiversity offset strategy as described in the EA, summarised in Table 9, and described and depicted in the figure in Appendix 4; and</p> <p>(b) make suitable arrangements, in consultation with OEH, to provide appropriate long term conservation security for Area 1, to the satisfaction of the Director-General.</p>	Administrative non-compliance.	<p>The Biodiversity Offset Strategy was completed and submitted to NSW DoPI in 2013.</p> <p>An approval for the plan is still yet to be given, however, negotiations around ongoing protection of the offset areas progressed further during 2022.</p> <p>It is understood that DPE has now endorsed Council's proposal to create easements over the planted biodiversity offset areas using covenant restrictions under Section 88b of the Conveyancing Act 1919.</p> <p>It is anticipated that the Biodiversity Offset Strategy will be approved by DPE in 2023.</p>

Introduction

Project Overview

Residents within the Tweed Shire Council (the Council) Local Government Area (LGA) currently generate approximately 100,000 tonnes of waste annually which is largely recycled or reused. A component of this waste, however, cannot be reused and therefore must be safely managed in landfill.

Waste within the Tweed is currently landfilled at Council's Stotts Creek Resource Recovery Centre; however, this facility is nearing its design capacity. In planning for the Shire's future landfill requirements, Council sought an approval from the NSW Department of Planning, Industry and Environment (formerly known as the Department of Planning and Infrastructure (DoPI)) in December 2012 to develop new waste infrastructure at Eviron Road, Eviron (Project Approval 08_0068). Approval was granted following an environmental assessment prepared by GHD Pty Ltd (GHD) in accordance with the requirements of Part 3A of the Environmental Planning and Assessment Act 1979 (EP&A Act). This approval includes:

- A landfill within the void space created by Quirks Quarry,
- Development of two further quarries to be used as landfills after exhaustion of quarry resources, and
- Operational infrastructure such as haul roads, an acid sulphate soil treatment area and other service buildings/storage facilities as required.

Construction works under this approval have commenced for Stage 1 of the project which includes:

- Construction of a Haul Road from the existing Tweed Recycling and Landfill Centre to the new landfill at Quirks Quarry; and
- Construction of a new landfill in the void of the existing Quirks Quarry; and
- Construction of a new quarry at the site known as the West Valley.

Works carried out at the site to date comprise of early works for the construction of the haul road. Works are yet to commence on the landfilling or quarrying components of Stage 1 of the project. A number of management plans have also been prepared for the project along with necessary site investigations and monitoring works. Environmental controls have also been installed as part of construction works for the haul road.

The purpose of this report is to satisfy the requirements of Schedule 6, Condition 6 of Project Approval 08_0068, namely that an Annual Review be produced detailing the works carried out in the previous twelve months, being the reporting period from 1 January 2022 to 31 December 2022.

The requirements of Condition 6 are provided in Table 3 below, with specific section references for each relevant section addressed in this document.

Table 3: Annual Review requirements (Condition 6 of Schedule 6 of Project Approval 08_0068)

Annual Review Requirement	
(a)	Describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year
(b)	Include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against: <ul style="list-style-type: none"> • The relevant statutory requirements, limits or performance measures/criteria; • The monitoring results of previous years; and

Annual Review Requirement	
	<ul style="list-style-type: none"> The relevant predictions in the EA;
(c)	Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance
(d)	Identify any trends in the monitoring data over the life of the project
(e)	Identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies
(f)	Describe what measures will be implemented over the current calendar year to improve the environmental performance of the project

Project Location

The subject site is located at Eviron Road, Eviron, within the Tweed LGA. The site is approximately 16km northeast of Murwillumbah and adjoins the existing Stotts Creek Resource Recovery Centre which is located to the northwest of the site.

The Council owned site has an area of 136 hectares (excluding Stotts Creek Resource Recovery Centre) which previously comprised Lot 1 of DP 34555, Lot 26 of DP 615931, and Lot 602 DP 1001049. Following a series of property acquisitions and boundary adjustments, the subject site now comprises Lot 1 DP 1159352, Lot 2 DP 1170442, Lot 1 DP 1170442, Lot 30 DP 820048, Lot 1 DP 34555, Lot 1 DP 783802 and Lot 25 DP 615931 (refer Figure 1 below and Appendix A).

Key Personnel

Name	Position	Role	Phone No.	Email
Stewart Brawley	Director Sustainable Communities and Environment	Project Client	02 6670 2430	sbrawley@tweed.nsw.gov.au
Rodney Dawson	Unit Coordinator – Resource Recovery	Project Client	02 6670 2659	rdawson@tweed.nsw.gov.au
Wes Knight	Coordinator – Resource Recovery	Project Client	02 6670 2595	wknight@tweed.nsw.gov.au
Athol Kiem	Technical Officer – Quarry Operations and Quality	Site Supervisor	02 6670 2716	atholk@tweed.nsw.gov.au
Shane Visser	Construction Engineer	Project Manager	02 6670 2763	svisser@tweed.nsw.gov.au



Figure 1: Aerial view showing locality of the site.

Approvals

Project Approvals

Table 4: Project approvals applicable to the development

Approval Number	Approval Authority	Approval Date
MP08_0068	Minister for Planning and Infrastructure	21 November 2012

Management Plans

A number of management plans which are required under the project approval have been previously prepared and submitted to the Director General for necessary approval. A summary of these plans and their progress is presented in Table 5 below.

In the 2022 reporting period no new management plans were prepared, however, Council continued negotiations with the NSW Department of Planning, Industry and Environment to obtain outstanding approvals for both the Biodiversity Offset Strategy and the Landscape Management Plan. It is anticipated that the approval of both plans will be finalised in 2023.

Table 5: Status summary of management plans submitted under Project Approval 08_0068.

Management Plan	Summary	Status
Environmental Management Strategy	<p>Schedule 6, Condition 3 of Project Approval 08_0068, requires that an Environmental Management Strategy be prepared and implemented for the project to the satisfaction of the Director-General.</p> <p>The Environmental Management Strategy outlines all plans required under the approval, who is responsible for preparation of each plan, who is responsible for implementing each plan and who audits each plan within recommended timeframes.</p> <p>The Environmental Management Strategy was prepared and submitted to the Director General on 27 May 2014 and was granted approval by NSW DoPE on 4 June 2014.</p>	<p>✓ Completed - 27 May 2014</p> <p>✓ Approved - 4 June 2014</p>
Heritage Management Plan	<p>A Heritage Management Plan is required as per Schedule 4, Condition 28 of Project Approval 08_0068. This plan was prepared in consultation with the Tweed Byron Local Aboriginal Land Council and included a Heritage Awareness Induction for all those involved. To date any personnel attending the site have been inducted prior to commencement of any activities.</p> <p>The Heritage Management Plan was submitted to the Director General on 8 January 2014 and approved by the NSW DoPE on 4 June 2014.</p>	<p>✓ Completed - 8 January 2014</p> <p>✓ Approved - 4 June 2014</p>
Biodiversity Offset Strategy	<p>The Biodiversity Offset Strategy is a requirement of Schedule 4, Condition 29 of Project Approval 08_0068.</p>	<p>✓ Completed - 18 December 2013</p>

Management Plan	Summary	Status
	<p>A number of key commitments within the submitted strategy have been undertaken which include:</p> <ul style="list-style-type: none"> (i) Delineation of Vegetation Protection Areas on the site with bunting and signage that restricts access from site operations (refer Figure 1). (ii) Vegetation planting in the Northern Riparian Corridor and Southern Ridgeline Corridor in accordance with the Biodiversity Offset Restoration Plan. 	<p>X Awaiting Approval – Negotiations around ongoing protection of offset areas have progressed in 2022 and it is anticipated that the BOS will be approved in 2023.</p>
White Laceflower Translocation Plan	<p>This plan is required as per Schedule 4, Condition 30 of Project Approval 08_0068. This plan was submitted 28 August 2013 and approved by NSW DoPE 4 June 2014.</p> <p>Upon implementation of the approved WLFTP, Council has been unsuccessful in sourcing local White Lace Flower (WLF) seed despite several attempts to survey and extract seeds at the project site and from WLF individuals within the surrounding areas of the Tweed Shire. In the absence of WLF seed, Council also attempted to propagate via cuttings which proved to be unsuccessful.</p> <p>Given the attempts that have been made to source seed without success, it was recommended in the independent environmental audit (2018 Eviron Road Quarry and Landfill Project: Environmental Audit, page 10) that the approved WLFTP be amended to discuss and justify the opportunity to source seed other than local seed.</p>	<p>✓ Completed - 28 August 2013</p> <p>✓ Approved - 4 June 2014</p> <p>✓ Amendment approved – September 2019</p>
Landscape Management Plan	<p>A Landscape Management Plan (LMP) is a requirement of Schedule 4, Condition 31 of Project Approval 08_0068. This plan was submitted to NSW DoPE 4 April 2014. NSW DoPE advised that further discussions would be required with the Office of Environment and Heritage.</p> <p>Under the provision of Condition 32, Schedule 4, a conservation and rehabilitation bond is to be lodged within six (6) months of the approval of the Landscape Management Plan. Once approval has been received, necessary arrangements will be made for lodgement of this bond.</p>	<p>✓ Completed - 4 April 2014</p> <p>X Awaiting Approval - The LMP will be finalised following approval of the BOP</p>

During the 2022 reporting period a two-year extension to the Excavated Public Road Material (EPRM) Resource Recovery Order and Exemption was granted extending it to 5 June 2024.

Operations Summary

Summary of Works Undertaken in 2022

General Activities

During the 2022 reporting period, the following general activities were carried out at the site:

- Ongoing environmental baseline monitoring of groundwater and surface water as per the Environmental Assessment recommendations.
- Monitoring, maintenance and rectification (as required) of vegetation protection measures installed at the site.
- Monitoring, maintenance and rectification (as required) of environmental controls installed at the site.



Figure 2: Flicker tape installed around vegetation protection areas.



Figure 3: Rock check dams installed within table drains for erosion and sediment control.

Construction Activities

Construction activities undertaken during the 2022 reporting period comprised of further works associated with the construction of the haul road. Specifically, these works included:

- Importation, placement and compaction of approximately 6,050m³ of loose imported fill material, including EPRM under Council's Resource Recovery Order and Exemption, June 2022. The placement of Imported fill material was generally concentrated in the soft soil areas at either ends of the alignment.
- Management and maintenance of the fob activated boom gate at the entry to the site to manage, control and monitor all material coming into the site during construction.
- Installation, monitoring and maintenance of permanent and temporary erosion and sediment controls in current active areas of disturbance.
- Surveying of alignment footprint



Figure 4: Material placed within haul road alignment looking east at approximately CH150.



Figure 5: Material placed within haul road alignment looking south at approximately CH600.



Figure 6: Material placed within haul road alignment looking south at approximately CH900.

Biodiversity Offsets

A total of 13,700 tube stock of sclerophyll species were planted at the site in 2017 in accordance with the submitted Biodiversity Offset Strategy. These works were aimed at improving the quality of corridor vegetation composition and connectivity through enhancement plantings, bush regeneration and weed control in two defined corridor alignments; being the Northern Riparian Corridor (NRC) and Southern Ridgeline Corridor (SRC) (refer Figure 9).

During the 2022 reporting period the 5-year maintenance program was finalised following the completion of a final maintenance and weed control event in February. Significant growth of planted trees and effective weed control, including stem injection of Camphor laurel, has provided a positive impact on the success of the planted biodiversity offset for this development. A copy of the 2022 Revegetation Maintenance Report is provided in Appendix B. Going forward, no further weed control is proposed at this stage within the offset areas.



Figure 7: Vegetation growth within the NRC as viewed from the haul road.



Figure 8: Vegetation growth and weed management within the SRC.

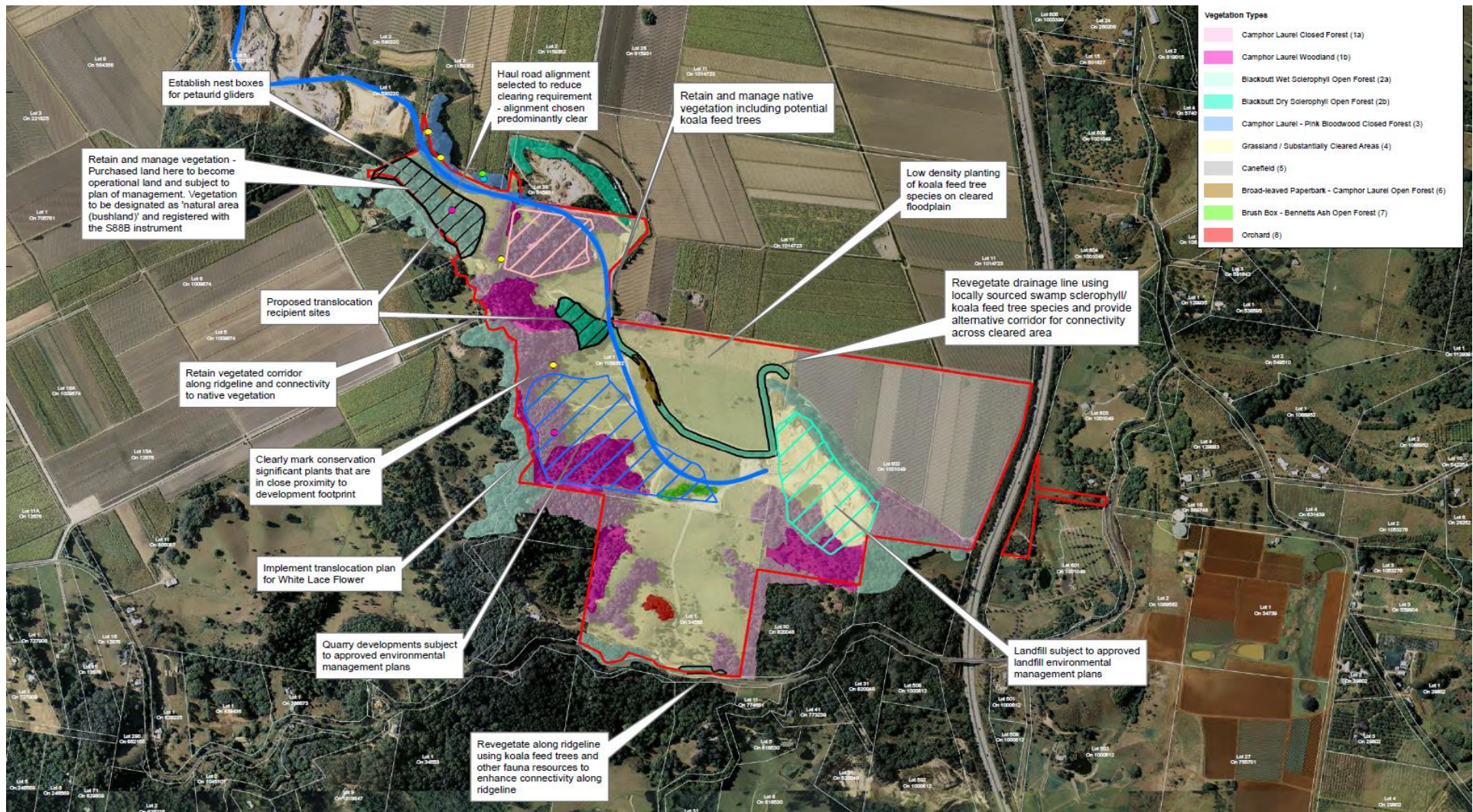


Figure 9: Biodiversity offset plan.

Actions Required from Previous Annual Review

No outstanding actions were identified from the previous annual return. Notwithstanding, in 2022 Council engaged Geolink Pty Lid to undertake a follow-up environmental audit of the site which identified a number of ‘administrative non-compliances’ and general observations. These items and the actions taken to address each item are listed in Table 7 below.

Table 7: Recommended actions from 2022 environmental audit.

Recommendation from Environmental Audit	Action Taken during 2022
<p>Section 3.1.1: Biodiversity Offset Strategy Approval – TSC is currently in discussions with DPE to negotiate an appropriate outcome. BCD correspondence of 21 February 2020, BCD agreed in principle to the use of an s88B. TSC is in negotiations with DPE (Post Approvals) to action the s88B.</p> <p>In the meantime, TSC have commenced actions and management of offset areas (trees) in anticipation of approval consistent with the Biodiversity Offset Strategy (BOS). Offsetting measures outlined in the CoA 29, Areas 1 to 6 have been undertaken. It is noted that the Area 1’s actual size is 3.5Ha not 6.5Ha. The EIS approved plans show the correct area and were used for the offset. The 6.5Ha is in error.</p> <p>The offsetting requirements have been implemented but not by 31 December 2013, however DPE have not approved the BOS.</p> <p>TSC actions to commence offsetting have been consistent with the BOS and have been successful. Notwithstanding this, DPE approval of the BOS should be sought and an s88b covenant created once agreement is reached. Correction of the minor administrative error in the Area 1 should be undertaken in order to close out compliance of this condition.</p>	<p>During the 2022 reporting period, Council continued ongoing negotiations with the NSW DPE in relation to obtaining approvals for both the BOS and the LMP.</p> <p>The physical works for the BOS have been completed, however, this administrative non-compliance cannot be finalised until DPE approve the BOS.</p>
<p>Section 3.1.2: Landscape Management Plan Approval – Actions outlined in the LMP have progressed. For example, 14,000 plants have been planted, nest boxes were installed, tallowood hollows were installed (not a requirement) and maintenance has occurred from 2016-2022. However, these actions have been undertaken from the BOS / LMP which has not, as yet been approved.</p> <p>On the basis of the notes and interviews for Condition 30 (above), we understand TSC is in negotiations with DPE to approve the LMP and proceed with the s88B.</p> <p>TSC actions to commence offsetting have been consistent with the BOS and has been successful. Notwithstanding this, DPE approval of the LMP should be sought and an s88b covenant created once agreement is reached.</p>	<p>During the 2022 reporting period, Council continued ongoing negotiations with the NSW DPE in relation to obtaining approvals for both the BOS and the LMP.</p> <p>The physical works for the LMP have been completed, however, this administrative non-compliance cannot be finalised until DPE approve the LMP.</p>

Recommendation from Environmental Audit	Action Taken during 2022
<p>Section 3.1.3: Conservation and Rehabilitation Bond Payment – Bond not paid as the BOS and LMP has not been approved by DPE.</p> <p>Once the LMP is approved by DPE, TSC will be in a position to pay the Bond and satisfy this condition. See Section 3.1.2 for audit results for Condition 31 relating to the LMP.</p>	<p>During the 2022 reporting period, Council continued ongoing negotiations with the NSW DPE in relation to obtaining approvals for both the BOS and the LMP.</p> <p>This administrative non-compliance cannot be finalised until DPE approve the LMP.</p>
<p>Section 3.1.4: Conservation and Rehabilitation Bond Review – The Bond has not been reviewed as the BOS and LMP has not been approved by DPE.</p> <p>Once the LMP is approved by DPE, TSC will be able to review and if necessary, revise the Bond and satisfy this condition. See Section 3.1.2 and 3.1.3 for audit results for Condition 31 and 32 relating to the LMP.</p>	<p>During the 2022 reporting period, Council continued ongoing negotiations with the NSW DPE in relation to obtaining approvals for both the BOS and the LMP.</p> <p>This administrative non-compliance cannot be finalised until DPE approve the LMP.</p>
<p>Section 3.1.5: Environmental Management System Review Schedule – EMS has been approved by DPE (4.6.14). DPE stated the EMS was a dynamic document which was to be reviewed quarterly. The works on site have been minimal and hence TSC have not needed to review the EMS. This will be required as the project matures.</p> <p>The works onsite have been minimal and restricted to placing settlement material on Stage 1 of Phase 1 of the Haul Road. Other works include offsetting works, weed management and revegetation. It is considered given the minor nature of the works that the failing to review the EMS quarterly is a negligible issue.</p> <p>Furthermore, it is considered this requirement relates to the full operation of the land and/or quarry.</p>	<p>Item noted. Review of EMS to be undertaken once more substantial works have occurred at the site. No further action required at this stage.</p>
<p>Section 3.1.6: Timing of independent Audit - This audit addresses this requirement. The audit is now complete however is late mainly due to delays getting access to the site due to the northern rivers flooding and flood damage, and various parties to the audit contracting covid and needing to isolate.</p> <p>Given the circumstances, this noncompliance is considered negligible.</p>	<p>Independent audit has been completed. No further action required.</p>
<p>Section 3.1.7: Timing of Independent Environmental Audit - This audit team was approved by DPE on the 4 February 2022 however due to flooding, access and covid the audit does not meet this requirement. Site inspection and audit occurred on the 2 June 2022.</p> <p>Under the circumstances, this noncompliance is considered negligible.</p>	<p>Independent audit has been completed. No further action required.</p>
<p>Section 3.1.8: Site Inspections - During the site inspection it was noted that the ERSED controls were in place however a number of rock checks had sediment built up.</p>	<p>Action ongoing. Council has implemented a program of quarterly environmental inspections which includes ERSED controls. Following inspections, maintenance of ERSED controls is undertaken as required. Inspection process to continue indefinitely.</p>

Recommendation from Environmental Audit	Action Taken during 2022
Although, it is a positive sign that ERSED controls are in place and working they need regular inspection and cleaning out to ensure they are operating as designed and are prepared for the next wet weather event.	

Environmental Performance

Given the limited extent of works that have been undertaken to date, it is too difficult to compare the environmental performance of the project against the predictions made within the EIS.

Notwithstanding, the environmental audit undertaken by Geolink Pty Ltd in 2022 concluded that “*at the time of the Audit, Eviron Quarry and Landfill was generally compliant with the requirements of the Eviron Quarry and Landfill Project Approval, Statement of Commitments, relevant regulations and good management practice*”.

Furthermore, the audit identified that the level of awareness among staff of good environmental practice was generally satisfactory with several examples of good environmental practices observed during the site inspection.

Water Management

Surface Water Quality

In 2008 Council implemented a baseline surface water monitoring program which occurs in the main drainage channel on the northern boundary of the site, adjacent to Quirks Quarry. This monitoring program comprises three (3) monitoring sites (SW1, SW2 and SW4) (refer Figure 13) which are sampled on a quarterly basis. A suite of parameters are tested during each monitoring event which are outlined in Table 9-7 of the Environmental Assessment. This suite of parameters is generally consistent with the requirements of the Environmental Guidelines: Solid Waste Landfills (EPA 1996).

For the suite of parameters that are monitored, there are currently no specific trigger values, however, the ANZECC/ARMCANZ freshwater guidelines continue to be used as a point of reference. Upon commencement of significant construction works, a range of operational trigger values will be developed for each site based on the collected baseline data. These trigger values will be applicable during quarrying and landfill activities and will feed into the Quarry Plan of Management and Landfill Environmental Plan. It is anticipated that once operations commence, the surface water monitoring program will be a specific requirement in the Environmental Protection Licences for the site.

The results of surface water monitoring and their graphs are provided in Appendix C and D. Surface water monitoring data continues to be considered baseline at this stage as no significant project works have been undertaken at the site. Nonetheless, a summary analysis of data trends to date for each monitoring site has been undertaken which is provided below. A more detailed analysis of data will be undertaken once substantial construction works are undertaken at the site.

SW1

SW1 is a surface water monitoring site with baseline data indicating that surface water in this location is fresh. The pH of surface water at this site varies between moderately acidic and neutral ranging between 5.6 and 6.7. Nutrient values at the site are typically low, however, a spike in BOD, total nitrogen and total phosphorus was recorded during the 2021 monitoring period. It is noted that a similar spike was also previously recorded at the site between 09/08/2011 and 06/02/2012. Both spikes coincide with similar spikes in suspended solids which is likely the result of rainfall during these periods. The concentration of metals at the site are generally low with the exception of a spike in total arsenic, total cadmium, total copper, total manganese and total nickel which was recorded during the 2011 monitoring period.

SW2

SW2 is a surface water monitoring site with baseline data indicating that surface water in this location is fresh. The pH of surface water at this site varies between strongly acidic and neutral ranging between 5.3 and 7.1. Nutrient values at the site are generally low with total nitrogen ranging between 0.3 and 2.7mg/L throughout the monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the other surface water monitoring sites.

SW4

SW4 is a surface water monitoring site with baseline data indicating that surface water in this location is fresh. The pH of surface water at this site varies between moderately acidic and neutral ranging between 6.0 and 7.0. Nutrient values at the site are generally low with total nitrogen ranging between 0.2 and 2.8mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the other surface water monitoring sites. It is noted, however, that concentrations of manganese and calcium are slightly elevated at this site.



Figure 13: Eviron surface water monitoring bores.

Groundwater Water Quality

There are currently nineteen (19) groundwater monitoring bores located on the site which are monitored on a quarterly basis, measuring both groundwater levels and groundwater quality (refer Figure 14).

Similar to the surface water monitoring program, there are currently no specific trigger values for groundwater at the site, however, the ANZECC/ARMCANZ freshwater guidelines continue to be used as a point of reference. Upon commencement of significant construction works, a range of operational trigger values will be developed for each site based on the collected baseline data. These trigger values will be applicable during quarrying and landfill activities and will feed into the Quarry Plan of Management and Landfill Environmental Plan. It is anticipated that once operations commence, the groundwater monitoring program will be a specific requirement in the Environmental Protection Licences for the site.

The results of groundwater monitoring and their graphs are provided in Appendix C and D. Groundwater monitoring data continues to be considered baseline at this stage as no significant project works have been undertaken at the site. Nonetheless, a summary analysis of data trends to date for each monitoring site has been undertaken which is provided below. A more detailed analysis of data will be undertaken once substantial construction works are undertaken at the site.



Figure 14: Eviron Groundwater Monitoring Bore locations.

GW1

GW1 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity values which are recorded at the site. The pH of groundwater varies from very strongly acidic to slightly acidic ranging between 4.9 and 6.4. Nutrient values at the site are typically low with total nitrogen concentrations ranging between 0.1 and 1.8mg/L. The concentration of metals at this site are also considered to be generally low and stable. Notwithstanding, one monitoring event on the 14/11/2012 recorded a significant short-term spike in in the concentration of total chromium, total copper, total iron, total lead, total aluminium, total calcium, total manganese, total nickel and total zinc.

GW2

GW2 is an alluvial monitoring site with baseline monitoring data indicating that groundwater in this location is brackish. This is reflected in the relatively high concentration of conductivity, alkalinity, bicarbonate, total sodium, total chloride, and total calcium recorded at the site. Given the brackish nature of the groundwater, pH values at this site are generally neutral and stable, ranging between 6.7 and 7.1 throughout the monitoring period. Nutrient values at the site are generally low and stable, however, one moderate spike in concentration was recorded on the 09/02/2015 which is reflected in the results for ammonia, BOD, TKN and total nitrogen. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data.

GW4

GW4 is an alluvial monitoring site with baseline monitoring data indicating that groundwater in this location is brackish. This is reflected in the relatively high concentration of conductivity, alkalinity, bicarbonate, total sodium, total chloride, and total calcium recorded at the site. Given the brackish nature of the groundwater, pH values at this site are generally neutral to slightly alkaline, ranging between 6.9 and 7.6 throughout the monitoring period. Nutrient values at the site are generally low and stable, however, one significant spike in concentration was recorded on the 09/02/2015 which is shown in the results for ammonia, BOD, TKN, total nitrogen and total phosphorus. An additional moderate spike in nutrient values was also recorded at this site during the 2016 and 2020 monitoring periods. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data. It is noted that the monitoring event 10/05/2022 saw a spike in nitrate and nitrogen oxidised concentrations along with a temporary drop in bicarbonate, calcium, chloride, conductivity, fluoride, magnesium, manganese, nickel, sodium, sulphate, alkalinity and depth to groundwater. The conditions recorded during this monitoring event are likely the result of the record flooding that occurred during March 2022.

GW5

GW5 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater is strongly to extremely acidic ranging between 3.8 and 5.4. Nutrient values at the site are typically low with Total Nitrogen concentrations ranging between 0.3 and 4.1mg/L. With the exception of manganese, which is considered to be high in this location, the concentration of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data.

GW6

GW6 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater varies between extremely acidic to slightly acidic ranging between 4.4 and 6.3. Nutrient values at the site are generally low and stable, however, a large spike in concentration was recorded on the 08/02/2022 which is reflected in the results for ammonia, BOD, nitrite, phosphorus, TOC, TKN and total nitrogen. Similarly, a spike in alkalinity and bicarbonate concentration was also recorded during this event. With the exception of nickel and zinc which appear to occur in high concentrations at the site relative to background levels, the concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data.

GW7

GW7 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater varies from extremely acidic to strongly acidic ranging between 4.2 and 5.5. Nutrient values at the site are generally low and variable. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data.

GW8

GW8 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity, alkalinity and bicarbonate values which are recorded at the site. The pH of groundwater varies between strongly acidic and neutral ranging between 5.3 and 6.6. Nutrient values at the site are generally low and stable, with total nitrogen ranging between 0.6 and 3.1mg/L throughout the monitoring period. The concentrations of metals at the site are generally characteristic of soils in this location and are consistent with the surrounding baseline monitoring data. Notwithstanding, a significant spike in the concentration of nickel was recorded on the 13/11/2012 at this location which was high relative to background levels. In addition, a significant spike in sulphate was recorded during the 2020 monitoring period which also coincided with a slight drop in chloride and pH, suggesting potential influence from acid sulphate soils.

GW9

GW9 is an alluvial monitoring site with baseline data indicating that groundwater at this site ranges between fresh and brackish. This is reflected in the elevated conductivity, sodium and chloride levels, however, it is noted that the alkalinity and bicarbonate values are generally low. The pH of groundwater varies between very strongly acidic and slightly acidic ranging between 4.8 and 6.2. Nutrient values at the site are generally low and stable, with total nitrogen ranging between 0.2 and 1.1mg/L throughout the monitoring period. The concentration of metals at the site are generally consistent with baseline monitoring data in the surrounding area, however, it is noted that total lead concentrations were slightly elevated at this site.

GW10

GW10 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity levels recorded during the monitoring period. The pH of groundwater varies between very strongly acidic and slightly acidic ranging between 4.8 and 6.3. Nutrient values at the site are generally low although slightly elevated against other surrounding baseline monitoring sites with total nitrogen ranging between 0.2 and 5.4mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, a spike was recorded at the site which occurred on the 12/11/2013 and saw temporary elevated levels of chromium, aluminium, arsenic, copper, iron, lead, nickel and zinc. In addition, it is also noted that a significant spike in conductivity occurred on the 11/08/2015 which also coincided with spikes in chloride, sulfate, calcium, magnesium, manganese, nickel and sodium, and a drop in pH. A spike in nutrients at the site was also recorded on the 8/11/2022 which saw elevated concentrations of TKN, total nitrogen, BOD, phosphorus and ammonia.

GW11

GW11 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater varies between extremely acidic and moderately acidic ranging between 4.1 and 5.7. Nutrient values at the site are generally low although slightly elevated against other surrounding baseline monitoring sites with total nitrogen ranging between 0.4 and 3.2mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, a low-level spike was recorded at the site on the 14/05/2014 which saw a short-term spike in the level of total aluminium, total chromium, total copper, total iron, total lead, total manganese, total nickel and zinc.

GW14

GW14 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater at this site is the lowest of all monitoring sites varying between extremely acidic and very strongly acidic ranging between 3.7 and 4.9. Nutrient values at the site are generally low with total nitrogen ranging between 0.5 and 3.5mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, slightly elevated levels of total aluminium, total chromium, total lead, total iron and total copper were recorded at the site during a low-level spike that occurred on the 14/11/2012.

GW15

GW15 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater at this site varies between moderately acidic and neutral ranging between 5.6 and 6.9. Nutrient values at the site are generally low although two slightly elevated spikes were recorded on the 14/05/2014 and 11/11/2015. Total nitrogen concentrations at the site ranged between 0.2 and 6.4mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, an increasing trend in concentration of aluminium, arsenic, chromium, iron and lead is observed between 2016 and 2021.

GW16

GW16 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh. This is reflected in the low conductivity and alkalinity levels recorded during the monitoring period. The pH of groundwater at this site varies between very strongly acidic and neutral ranging between 4.6 and 6.8. Nutrient values at the site are generally low although slightly elevated against other surrounding baseline monitoring sites with total nitrogen ranging between 0.2 and 5.5mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area.

GW17

GW17 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. The pH of groundwater at this site varies between strongly acidic and slightly acidic ranging between 5.3 and 6.2. Nutrient values at the site are generally low with total nitrogen ranging between 1.1 and 2.4mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area, however, it is noted that total arsenic, total chromium and calcium concentrations are slightly elevated.

GW19

GW19 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. The pH of groundwater at this site varies between moderately acidic and slightly alkaline ranging between 5.9 and 7.5. Nutrient values at the site are generally very low with total nitrogen ranging between 0.4 and 0.7mg/L throughout the monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area.

GW20

GW20 is a bedrock monitoring site with baseline data indicating that groundwater at this site is fresh, although close to approaching brackish. This is reflected in the slightly elevated conductivity, alkalinity and bicarbonate levels recorded at the site. The pH of groundwater at this site varies between neutral and slightly alkaline ranging between 6.8 and 7.6. Nutrient values at the site are generally very low, however, a small spike in ammonia, BOD, total nitrogen, total phosphorus, TKN and TOC was recorded during the 2021 monitoring period. The concentration of metals at the site are generally low and consistent with baseline monitoring data in the surrounding area. It is noted that the concentration of calcium and fluoride are slightly high in this location relative to surrounding monitoring sites.

GW21

GW21 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh which is reflected in the low conductivity levels recorded at the site. The pH of groundwater at this site varies between strongly acidic and neutral ranging between 5.3 and 6.6. Nutrient values at the site are generally very low, however, a small spike in ammonia, BOD, total nitrogen, total phosphorus, TKN and TOC was recorded during the 2021 monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the surrounding area.

GW22

GW22 is a bedrock monitoring site with baseline data indicating that groundwater at this site is slightly brackish as reflected in the elevated conductivity, alkalinity and bicarbonate levels recorded at the site. The pH of groundwater at this site is neutral, ranging between 6.4 and 7.0. Nutrient values at the site are generally very low with total nitrogen ranging between 0.2 and 1.1mg/L throughout the monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the surrounding area. It is noted that elevated concentrations of anions and cations are present at site including calcium, fluoride, sodium and sulfate.

GW23

GW23 is an alluvial monitoring site with baseline data indicating that groundwater at this site is fresh. The pH of groundwater at this site varies between moderately acidic and neutral ranging between 6.0 and 6.8. Nutrient values at the site are very low with total nitrogen ranging between 0.05 and 0.8mg/L throughout the monitoring period. The concentration of metals at the site are also generally low and consistent with baseline monitoring data in the surrounding area. It is noted that the concentration of some anions and cations at the site are slightly elevated above other baseline sites, including calcium, chloride, fluoride and sodium.

Rehabilitation

Condition 35 of Schedule 3 states that *the Proponent shall rehabilitate the site to the satisfaction of the Director General. This rehabilitation must be generally consistent with the proposed rehabilitation strategy in the EA and depicted in Appendix 5, and comply with the following objectives (Refer Table 8):*

Table 8: Rehabilitation objectives for the subject site.

Feature	Objective
Site (as a whole)	Safe, stable and non-polluting
Quirks Quarry Landfill	Suitable for grazing
Benched Quarry Walls	Landscaped with native endemic flora species
Quarry Pit Floors	Suitable for grazing
Other land affected by the project	Restore ecosystem function, including maintaining or self-sustaining eco-systems comprising of native endemic species.
Surface Infrastructure	To be decommissioned and removed, unless the Director General agrees otherwise.

In relation to rehabilitation works, given the early stage of development to date, satisfying the rehabilitation objectives listed in the EA is currently not feasible. Notwithstanding, Council has commenced works under the Biodiversity Offset Strategy which in time will satisfy the rehabilitation requirement applying to 'Other land affected by the project', being to restore ecosystem function.

Community

During the 2022 reporting period no community engagement activities or initiatives were undertaken in relation to the proposal. Similarly, there were no community contributions to the project and there have been no complaints raised in relation to the works undertaken.

Independent Audit

Condition 10 of Schedule 6 of the project approval requires that within a year to the date of the approval, and every three years thereafter, unless the Director General directs otherwise, the proponent shall commission and pay the full cost of an Independent Environmental Audit for the project.

Given the delays in commencing the project and limited works that were undertaken initially, Council negotiated with the Department of Planning, Industry and Environment to postpone the commencement of the environmental audit until 2018 following a substantial commencement of works.

During September 2021 Council engaged Geolink Pty Ltd to carry out a follow-up environmental audit of the site, three years following the initial audit. The environmental audit was completed on the 2nd June 2022 and was provided to the NSW DPE. As a summary, the outcome of the audit found that:

The commitment of Eviron Road Quarry and Landfill and its staff to the quarry's environmental management was apparent, and site operations, work practices and documentary records were found to be generally in compliance with the Conditions of Approval, Statement of Commitments and relevant legislation, and consistent with good Environmental practices.

There were seven non-compliances made mainly with approval documentation.

The level of awareness among staff of good environmental practice was generally satisfactory. Several examples of good environmental practices were observed during the site inspection. The findings obtained during this Audit shows that, except where noted above, Eviron Road Quarry and Landfill is generally compliant with the Conditions of Approval, Statement of Commitments, and with relevant environmental legislation.

Incidents and non-compliances during the reporting period

There were no environmental incidents or non-compliances recorded during the reporting period.

Activities to be completed in the next reporting Period

Construction Activities

Construction works planned for 2022 would focus on the further importation of fill material and ongoing pre-loading within the soft soil areas of the alignment. Continual monitoring of settlement plates within the pre-load areas would be carried out to calculate the settlement rates relative to the design levels.

Specific timelines are yet to be finalised and are dependent on necessary compaction of pre-load areas as described above.

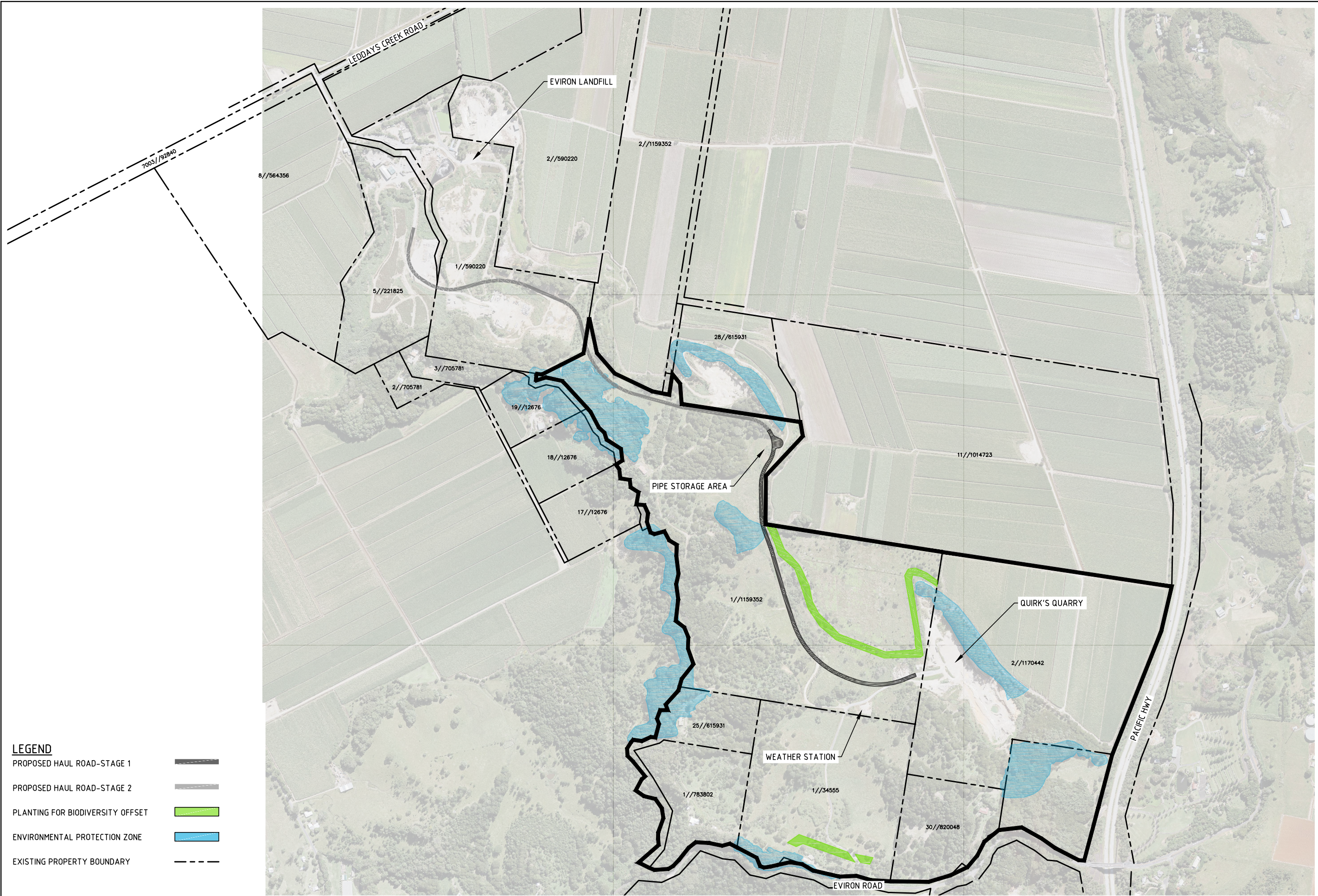
Environmental Management

Environmental monitoring and recording will continue at the site in accordance with the approved Environmental Management Plans submitted to date.






Continual reviews of the timelines for activities will be carried out to ensure they align with the Environmental Management Strategy.

Ongoing maintenance of the biodiversity offset plantings is proposed throughout 2022 which will include follow-up weed control of the NRC and SRC plantings, stem injection of remaining Camphor Laurels in SRC, planting of propagated Swamp Hibiscus, replacement of dead plants and ongoing monitoring.

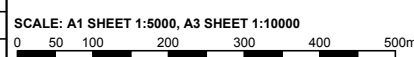
Appendix A – Site Plan



LEGEND

PROPOSED HAUL ROAD-STAGE 1	
PROPOSED HAUL ROAD-STAGE 2	
PLANTING FOR BIODIVERSITY OFFSET	
ENVIRONMENTAL PROTECTION ZONE	
EXISTING PROPERTY BOUNDARY	

PRELIMINARY
NOT FOR CONSTRUCTION



DESIGN UNIT
COUNCIL OFFICES
TUMBULGUM ROAD,
MURWILLUMBAH NSW 2484.
PHONE 02 66702400
FAX 02 66727513
WEBSITE www.tweed.nsw.gov.au



DESIGNED	A.D.	22.03.17	COORDS ADOPTED	PM 124179
CHECKED	W.K.	22.03.17	EASTING	548869.775
HORIZONTAL DATUM	MGA	NORTHING	6869228.643	
VERTICAL DATUM	AHD	R.L.	1.252	

PROJECT: **EVIRON ROAD, EVIRON QUIRKS QUARRY TO STOTTS LANDFILL HAUL ROAD**

PLAN TITLE: **SITE PLAN**

PROJECT NUMBER:	INF7
DRAWING NUMBER	INF7-SK-10
ISSUE	A

ACAD FILE No: G:_AAA DESIGN PROJECTS\INF7-STOTTS TO QUIRKS HAUL ROAD\Drawings\Misc Dwg\INF7-Overall Site Details.dwg

Appendix B – 2022 Restoration and Biodiversity Offset Annual Progress Report.



5/11 Buchanan Street Murwillumbah NSW 2484
 PO Box 5198 South Murwillumbah NSW 2484
 Phone 0266722220 Mob 0409244294
 Email: goorambil2@bigpond.com
 www.bushrestoration.com

Report Year 3

February 2022

Tweed Shire Council Eviron Quarry Revegetation Maintenance

Bushland Restoration Services (BRS) was contracted in January 2019 to undertake follow up weed control and restoration in two planted areas and adjoining vegetation at Eviron Quarry for a period of 24 months. The 24 month period was completed in February 2021. The project continued to May 2021 with funds remaining from the contract.

Work Program

A site inspection with Council officers and BRS manager and team leader was scheduled for January then February 2022. The inspection was postponed due to Covid and wet weather. A total of 101 person days have been worked during Years 1 and 2. A total of 10 days have been worked in Year 3 from the 22 days remaining to complete the contract.

The following Table 1 is a schedule of days worked at the site over the 27 month period.

Table 1 Days worked February 2019-April 2021

Month	February 2019	April	May	July	September	October	November 2019	January 2020
Days Worked	19	7	3	3	4	5.5	6	10
Month	February 2020	March	April	June	August	September	November 2020	January 2021
Days Worked	3	7.5	3	4	4	8	4	10
Month	February 2021	March	April					January 2022
Days Worked		5	5					

The work that commenced in February 2019 and continued through 2019 concentrated on reducing the density of weeds that had established on the site and grown over many of the plantings. Camphor laurel was also controlled by drill and inject during the year. Year 2 and 3 work has continued on a regular basis to control mainly groundcover weeds such as introduced grasses and annuals and emerging woody weeds such as tobacco bush, giant devil's fig and camphor laurel. Additional camphor laurel have been drill and injected.

Due to the previous density of groundcover, woody weeds and vines in the two planting areas regular follow up weed control was required.

The site required less days for follow up during the drier autumn and winter from May to November.

Rain in December 2020 resulted in a flush of Coastal Morning Glory and annual groundcover weeds such as cotton bush, thistles, blackberry nightshade and exotic grasses which required control.

Follow up continued through to and including April 2021.

The plantings improved in condition with the removal of impacting weeds which has resulted in an increase of height and density. Exotic grasses were controlled within and on edges of patches of the native kangaroo grass.

Natural regeneration has increased during Years 2 and 3 and include the native swamp rice grass replacing introduced grasses. Trees are now reaching maturity and fruiting which will assist in natural recruitment of these species.

Weeds such as groundsel, giant devil's fig and tall exotic grasses are present in adjacent areas.

Gaps remain within the plantings and infill planting could be undertaken.

The whole of the site including the plantings and regeneration area has improved significantly in condition though weeds continue to persist. Weed control is required to continue in March 2022 due to the excellent spring and summer growing conditions for weeds.

Larger branches extending over the track require cutting back as impede the movement of vehicles and the tractor/slasher.

Tracks leading to and within the site require slashing prior to March weed control.

Recommendations

- Continue regular follow up throughout the two plantings and adjacent areas worked in Years 1 - 3. Estimate 36 person days required in Year 4. There are 11 days remaining on current contract;
- Carefully cut back low branches extending across the track;
- Control priority "Containment" weeds groundsel and giant devil's fig and other invasive weeds in adjoining area and expand area to the north;
- Consider infill plantings in gaps;
- Control all remaining Camphor Laurel throughout and adjacent to the planting; and
- Regular slashing of tracks by Tweed Shire Council to reduce seed source and ease of access to and within the site.

Photopoints February 2020 and February 2021



SRC T2 pp2 2020



SRC T2 pp2 2021



SRC T1 PP 2 2020



NRC T1 PP2 2021



SRC T1 PP1 2020



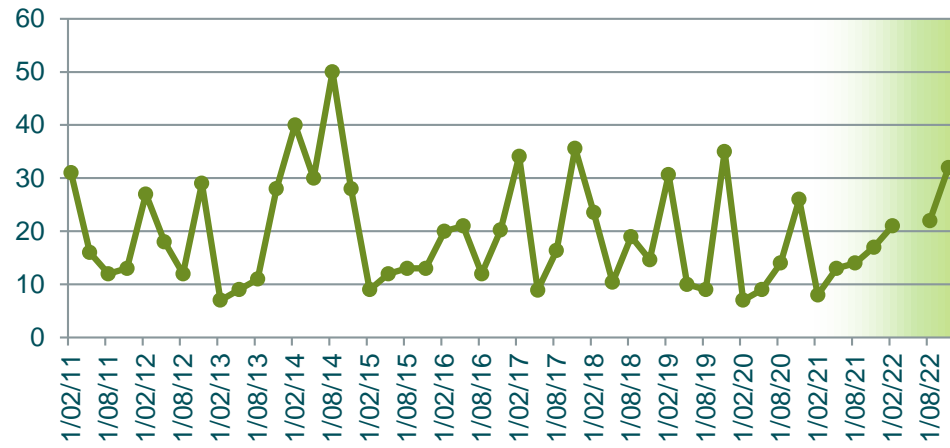
NRCT1PP12021

Appendix C – Water Quality Monitoring Data

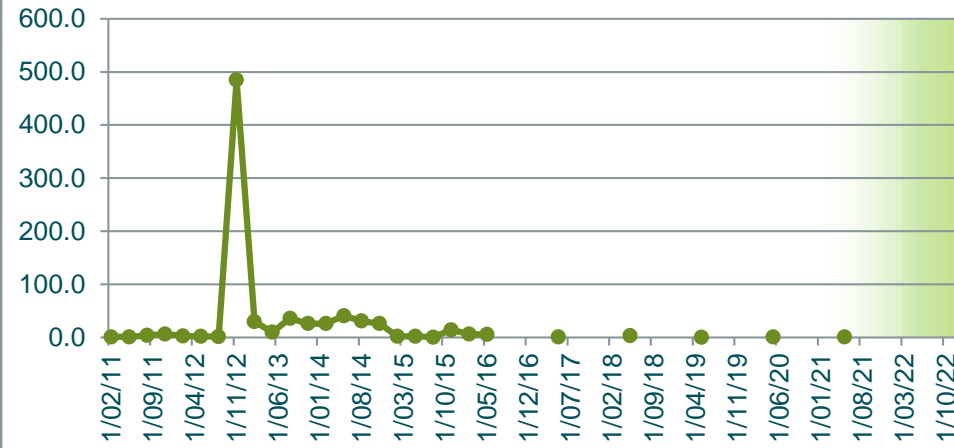
Depth to Groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH pH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity uS/cm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	BOD5 mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW1
1/02/2011	31	1.1	0.1	0.0	19	1.0	0.0	4.8	34	0.0	0.0	0.0	184	0.0	1.6	0.1	1.0	0.0	2.5	0.2	0.0	0.1	0.1	0.1	0.3	6.2	0.1	5.0	381	16	4.1	22	0.3	2.1	39	0.1		
11/05/2011	16	1.1	0.1	0.0	10	1.6	0.0	2.7	35	0.0	0.0	0.0	181	0.0	3.1	0.1	0.8	0.0	2.6	0.1	0.0	0.1	0.1	0.1	0.2	4.9	0.1	5.0	271	15	5.2	20	0.2	1.3	48	0.0		
10/08/2011	12	3.9	0.1	0.0	7	1.8	0.0	2.7	34	0.0	0.0	0.0	179	0.0	2.9	0.0	2.5	0.0	3.4	0.2	0.0	0.1	0.1	0.1	0.2	5.3	0.1	5.0	307	21	5.4	20	0.1	1.5	45	0.0		
9/11/2011	13	6.6	0.0	0.0	8	6.3	0.0	3.6	36	0.0	0.0	0.0	154	0.0	2.5	0.1	5.0	0.0	4.2	0.2	0.0	0.1	0.0	0.1	0.2	5.4	0.1	5.0	310	13	8.1	20	0.1	0.7	50	0.0		
7/02/2012	27	3.0	0.0	0.0	16	2.4	0.0	6.1	39	0.0	0.0	0.0	211	0.0	1.4	0.1	2.6	0.0	4.2	0.2	0.0	0.1	0.0	0.1	0.2	5.7	0.6	5.0	197	30	9.0	21	0.1	0.3	58	0.0		
9/05/2012	18	2.1	0.0	0.0	11	2.1	0.0	3.8	34	0.0	0.0	0.0	171	0.0	4.5	0.0	1.5	0.0	3.3	0.1	0.0	0.2	0.0	0.2	0.3	5.6	0.1	5.0	273	19	6.1	21	0.1	4.5	42	0.1		
7/08/2012	12	1.7	0.0	0.0	7	1.5	0.0	2.8	31	0.0	0.0	0.0	160	0.0	1.0	0.0	1.0	0.0	3.2	0.1	0.0	0.0	0.0	0.0	0.1	5.2	0.1	5.0	239	14	5.4	19	0.1	0.7	28	0.0		
14/11/2012	29	485	0.0	0.2	18	1.8	0.0	5.5	56	0.2	0.2	0.0	266	1.2	1.4	0.1	581	0.9	4.9	9.4	0.3	0.1	0.0	0.1	0.5	5.2	0.8	5.0	138	25	7.6	21	0.5	0.8	101	1.9		
14/02/2013	7	30.0	0.1	0.0	4	1.0	0.0	2.1	27	0.0	0.0	0.0	130	0.0	3.1	0.0	31.0	0.0	2.2	0.5	0.0	0.2	0.0	0.2	0.6	5.3	0.2	5.0	207	16	5.2	21	0.5	1.3	37	0.1		
15/05/2013	9	9.7	0.0	0.0	5	1.5	0.0	2.5	32	0.0	0.0	0.0	136	0.0	4.2	0.0	7.1	0.0	2.2	0.1	0.0	0.1	0.0	0.1	0.4	5.4	0.2	5.0	156	17	4.8	21	0.3	1.3	63	0.2		
7/08/2013	11	36.0	0.1	0.0	7	1.0	0.0	3.5	40	0.0	0.0	0.0	150	0.0	2.1	0.1	28.0	0.0	2.5	0.5	0.0	0.1	0.0	0.1	0.6	5.5	0.5	5.0	60	21	4.5	20	0.5	1.0	77	0.2		
13/11/2013	28	26.0	0.1	0.0	17	1.0	0.0	8.7	59	0.0	0.0	0.0	289	0.0	1.6	0.1	23.0	0.0	6.3	0.8	0.0	0.1	0.0	0.1	0.6	5.7	0.2	5.0	148	37	10.0	21	0.5	0.6	71	0.1		
12/02/2014	40	26.0	0.1	0.0	24	1.0	0.0	9.8	70	0.0	0.0	0.0	328	0.0	1.2	0.1	26.0	0.0	6.5	1.0	0.0	0.1	0.0	0.1	0.7	5.9	0.2	5.0	77	43	13.0	21	0.6	0.7	187	0.3		
14/05/2014	30	41.0	0.7	0.0	18	8.1	0.0	5.6	54	0.0	0.0	0.0	282	0.1	1.9	0.1	50.0	0.1	4.5	1.1	0.0	0.2	0.0	0.2	1.8	5.7	0.4	5.0	19	34	11.0	20	1.7	1.6	68	0.2		
13/08/2014	50	31.0	0.1	0.0	30	1.0	0.0	13.0	77	0.0	0.0	0.0	375	0.0	1.3	0.1	20.0	0.0	7.8	0.6	0.0	0.1	0.0	0.1	0.6	6.3	0.3	5.0	149	53	13.0	20	0.5	0.5	159	0.1		
11/11/2014	28	26.0	0.0	0.0	17	2.1	0.0	6.7	60	0.0	0.0	0.0	262	0.0	3.1	0.0	18.0	0.0	5.5	0.4	0.0	0.1	0.0	0.1	0.8	6.1	0.2	5.0	78	37	10.0	21	0.8	1.0	67	0.1		
10/02/2015	9	2.2	0.0	0.0	6	1.0	0.0	2.1	28	0.0	0.0	0.0	122	0.0	2.6	0.0	0.8	0.0	1.8	0.0	0.0	0.2	0.0	0.2	0.5	6.4	0.1	5.0	88	16	6.4	21	0.3	2.5	36	0.0		
12/05/2015	12	2.4	0.0	0.0	7	2.7	0.0	2.4	27	0.0	0.0	0.0	130	0.0	5.7	0.0	1.2	0.0	2.4	0.1	0.0	0.2	0.0	0.2	0.4	5.6	0.1	5.0	165	18	4.9	21	0.2	1.6	30	0.0		
12/08/2015	13	0.5	0.0	0.0	13	2.1	0.0	3.6	32	0.0	0.0	0.0	149	0.0	2.3	0.0	0.3	0.0	3.1	0.1	0.0	0.0	0.0	0.0	0.2	5.6	0.0	5.0	116	19	4.5	18	0.1	0.8	67	0.0		
11/11/2015	13	14.3	0.0	0.0	13	1.5	0.0	4.2	40	0.0	0.0	0.0	177	0.0	3.2	0.0	10.6	0.0	4.0	0.2	0.0	0.2	0.0	0.2	0.8	5.4	0.2	5.0	123	23	5.0	21	0.6	0.8	74	0.1		
9/02/2016	20	6.6	0.0	0.0	20	1.0	0.0	5.1	53	0.0	0.0	0.0	238	0.0	1.0	0.0	3.8	0.0	4.9	0.1	0.0	0.1	0.0	0.1	0.5	5.5	0.3	5.0	192	29	7.3	21	0.4	0.6	97	0.0		
10/05/2016	21	5.7	0.0	0.0	21	1.0	0.0	3.5	40	0.0	0.0	0.0	180	0.0	1.5	0.0	3.0	0.0	3.4	0.1	0.0	0.1	0.0	0.1	0.3	5.4	0.2	5.0	184	23	5.8	22	0.2	1.5	71	0.1		
10/08/2016	12		0.0		12	1.0		3.1	36				166		5.3	0.1			3.5			0.0	0.0	0.0	0.2	5.2	0.0	5.0	292	21	6.1	20	0.1	1.1	81			
8/11/2016	20		0.0		20	1.8		5.9	46				202		2.5	0.0			4.7			0.0	0.0	0.0	0.1	5.5	0.1	5.0	356	25	7.2	22	0.1	2.6	89			
8/02/2017	34		0.0		34	1.5		8.3	58				288		1.6	0.1			5.9			0.0	0.0	0.0	0.4	5.6	0.1	5.0	357	34	9.6	22	0.4	1.6	113			
9/05/2017	9	0.9	0.1	0.0	9	1.2	0.0	1.8	23	0.0	0.0	0.0	110	0.0	3.0	0.1	0.7	0.0	1.8	0.0	0.0	0.2	0.0	0.2	0.5	5.4	0.1	5.0	406	15	6.1	21	0.3	1.8	41	0.1		
9/08/2017	16		0.0		16	1.0		2.5	35				135		5.8	0.0			2.6			0.1	0.0	0.1	0.2	5.4	0.0	5.0	407	17	4.8	20	0.1	1.8	29		3.0	
8/11/2017	36		0.8		36	5.1		7.6	58				289		1.0	0.1			5.7			0.0	0.0	0.0	1.3	5.7	0.3	5.0	105	35	8.1	20	1.3	2.7	64		4.8	
14/02/2018	24		0.0		24	2.4		5.3	43				216		3.1	0.0			4.2			0.0	0.0	0.0	0.5	5.6	0.1	5.0	190	28	6.9	21	0.4	1.8	66		6.0	
9/05/2018	10	3.2	0.0	0.0	10	2.1	0.0	2.3	29	0.0	0.0	0.0	138	0.0	1.8	0.0	1.4	0.0	2.5	0.0	0.0	0.4	0.0	0.4	0.8	5.3	0.2	0.6	267	18	6.0	21	0.3	1.4	60	0.0	2.3	

15/08/2018	19		0.0		19	1.8		4.6	40				194		5.0	0.0			4.2			0.3	0.0	0.3	0.5	5.6		0.1	0.5	375	27	7.1	20	0.2	3.8	54		5.9		
14/11/2018	15		0.0		15	2.4		3.7	30				153		3.6	0.0			3.0			0.1	0.0	0.1	0.3	5.7		0.1	0.5	203	21	6.5	22	0.2	1.9	47		4.6		
13/02/2019	31		0.4		31	3.6		6.9	48				237		1.3	0.1			4.6			0.1	0.0	0.1	1.2	5.9	0.0	0.2	0.9	130	31	8.7	23	1.1	2.7	55		6.5		
15/05/2019	10	0.4	0.3	0.0	10	1.5	0.0	2.9	34	0.0	0.0	0.0	145	0.0	3.3	0.0	0.8	0.0	2.7	0.1	0.0	0.3	0.0	0.3	0.8	5.6	0.0	0.2	0.7	62	21	4.1	21	0.5	1.9	31	0.1	4.8		
14/08/2019	9		0.0		9	1.0		3.4	36				162		5.6	0.0			3.7			0.2	0.0	0.2	0.3	5.5	0.0	0.1	0.5	340	21	6.3	20	0.2	0.7	37		4.1		
13/11/2019	35		0.0		35	3.0		8.9	60				300		2.2	0.1			6.2			0.2	0.0	0.2	0.8	5.9	0.0	0.4	1.1	170	37	11.0	21	0.7	1.3	52		6.8		
26/02/2020	7		0.0		7	1.0		1.6	25				107		4.2	0.1			1.8			0.2	0.0	0.2	0.5	5.4	0.0	0.1	0.5	211	14	5.0	22	0.3	2.2	26		1.0		
13/05/2020	9	0.7	0.0	0.0	9	1.0	0.0	2.3	28	0.0	0.0	0.0	114	0.0	3.8	0.1	0.4	0.0	1.9	0.0	0.0	0.3	0.0	0.3	0.4	5.6	0.0	0.1	0.5	174	15	5.5	21	0.1	1.8	22	0.0	3.4		
12/08/2020	14		0.0		14	1.0		3.2	34				159		4.3	0.0			3.7			0.0	0.0	0.0	0.1	5.4	0.0	0.0	0.5	243	21	6.2	19	0.1	1.1	67		1.4		
11/11/2020	26		0.0		26	1.0		6.5	51				247		4.0	0.1			5.2			0.0	0.0	0.0	0.2	5.6	0.0	0.1	0.7	177	30	8.6	21	0.2	1.5	49		4.2		
10/02/2021	8		0.0		8	1.0		2.4	30				137		5.0	0.1			2.5			0.3	0.0	0.3	0.5	5.1	0.0	0.1	0.6	220	18	5.3	23	0.2	2.6	18		2.0		
12/05/2021	13	1.0	0.0	0.0	13	3.6	0.0	3.0	34	0.0	0.0	0.0	155	0.0	3.7	0.1	2.2	0.0	3.3	0.1	0.0	0.4	0.0	0.4	0.7	5.6	0.0	0.1	0.9	181	21	5.5	21	0.3	2.2	28	0.4	1.2		
11/08/2021	14		0.0		14	1.5		3.8	36				168		5.0	0.0			3.8			0.1	0.0	0.1	0.4	5.4	0.0	0.1	0.5	257	20	5.4	19	0.3	1.3	53		3.0		
9/11/2021	17		0.2		17	1.5		3.8	41				178		3.7	0.0			3.7			0.0	0.0	0.0	0.6	5.5	0.0	0.1	0.5	113	21	4.5	21	0.6	1.7	38		3.5		
9/02/2022	21		0.1		21	1.0		4.4	36				188		3.9	0.0			3.7			0.1	0.0	0.1	0.4	5.6	0.0	0.1	0.6	181	23	6.8	21	0.2	1.0	64		1.3		
11/05/2022																																								
10/08/2022	22		0.0		22	1.0		5.0	38				188		6.7	0.0			4.2			0.2	0.0	0.2	0.4	6.0	0.0	0.1	0.6	306	22	5.2	19	0.2	1.2	32		1.4		
9/11/2022	32		0.1		32	1.0		5.6	41				219		4.6	0.1			4.5			0.0	0.0	0.0	0.3	5.7	0.0	0.1	0.7	94	24	5.3	20	0.3	1.5	67		1.5		
2022 Min	21	0.0	0.0	0.0	21	1.0	0.0	4.4	36	0.0	0.0	0.0	188	0.0	3.9	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.3	5.6	0.0	0.1	0.6	94	22	5.2	19	0.2	1.0	32	0.0	1.3			
2022 Max	32	0.0	0.1	0.0	32	1.0	0.0	5.6	41	0.0	0.0	0.0	219	0.0	6.7	0.1	0.0	0.0	4.5	0.0	0.0	0.2	0.0	0.2	0.4	6.0	0.0	0.1	0.7	306	24	6.8	21	0.3	1.5	67	0.0	1.5		
2022 Mean	25	0.0	0.1	0.0	25	0.0	0.0	5.0	38	0.0	0.0	0.0	198	0.0	5.1	0.0	0.0	0.0	4.1	0.0	0.0	0.1	0.0	0.1	0.4	5.8	0.0	0.1	0.6	194	23	5.8	20	0.2	1.2	54	0.0	1.4		
Longterm average	19	28.4	0.1	0.0	16	1.9	0.0	4.5	41	0.0	0.0	0.0	193	0.1	3.1	0.0	30.5	0.0	3.8	0.6	0.0	0.1	0.0	0.1	0.5	5.6	0.0	0.2	3.3	206	24	6.8	21	0.4	1.6	60	0.2	3.5		

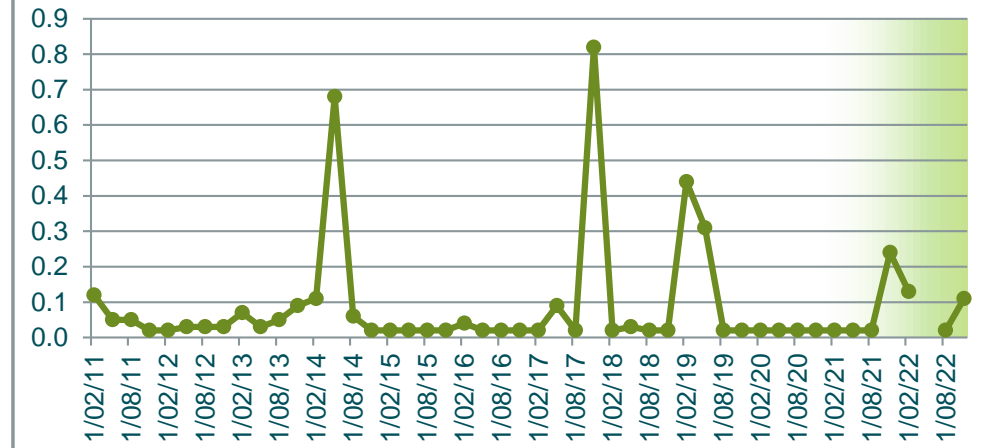
Alkalinity
mg/L as CaCO3



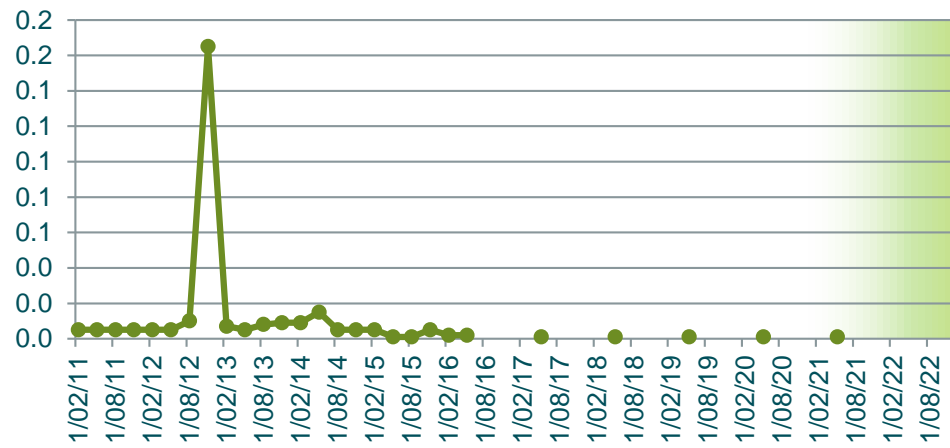
Aluminium (Total)
mg/L



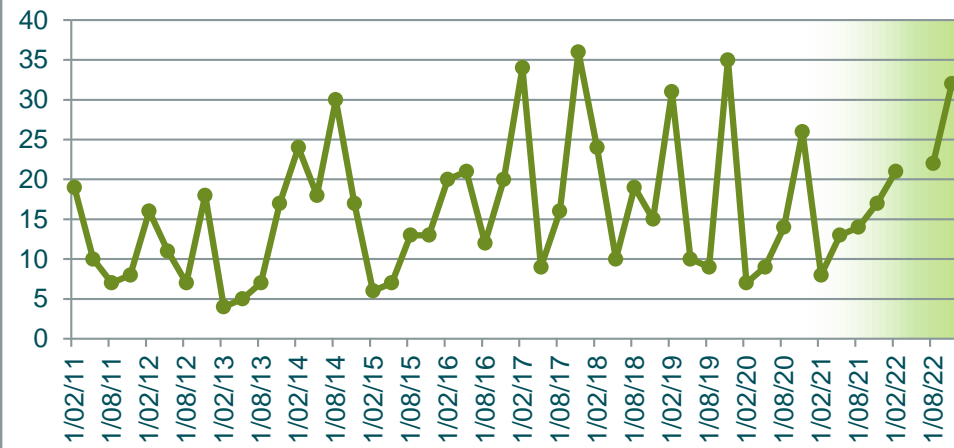
Ammonia
mg/L



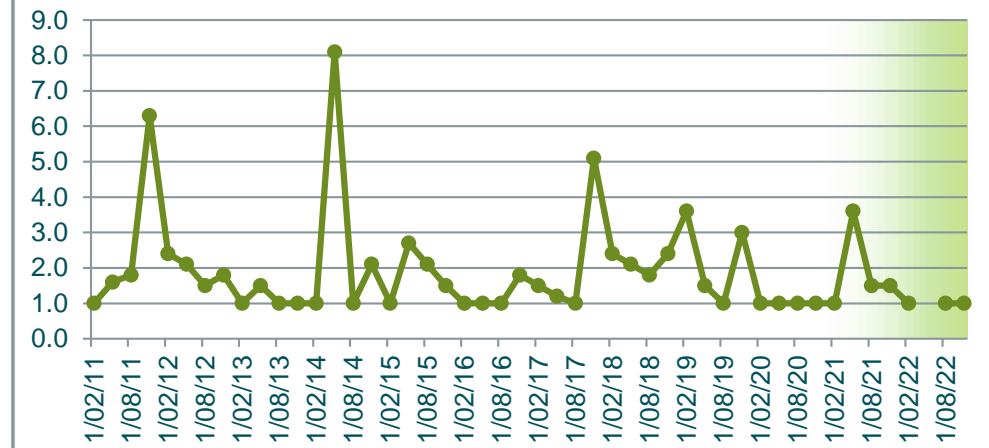
Arsenic (Total)
mg/L



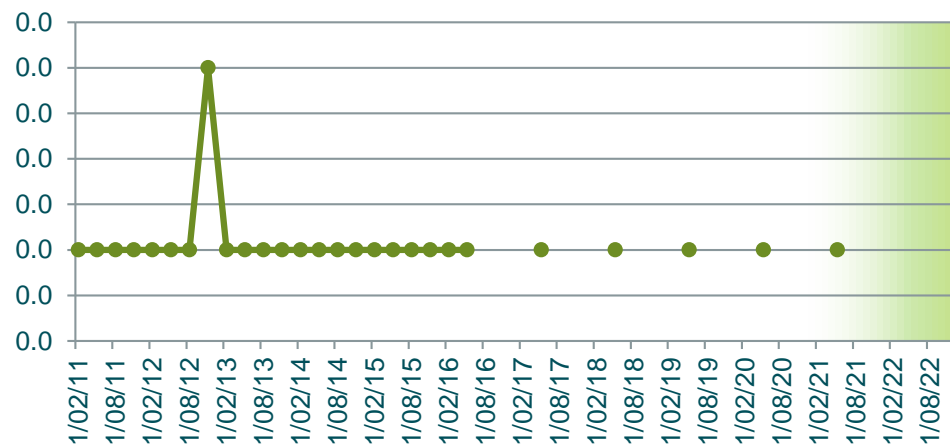
Bicarbonate HCO3
mg/L



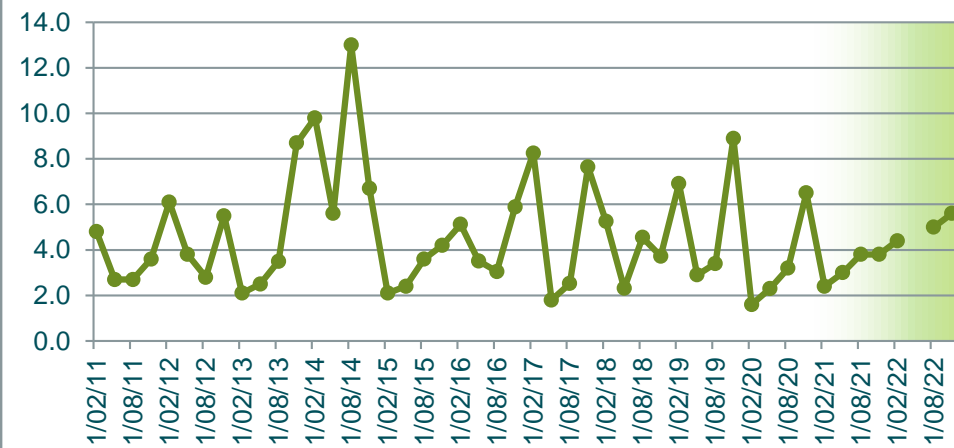
BOD5
mg/L



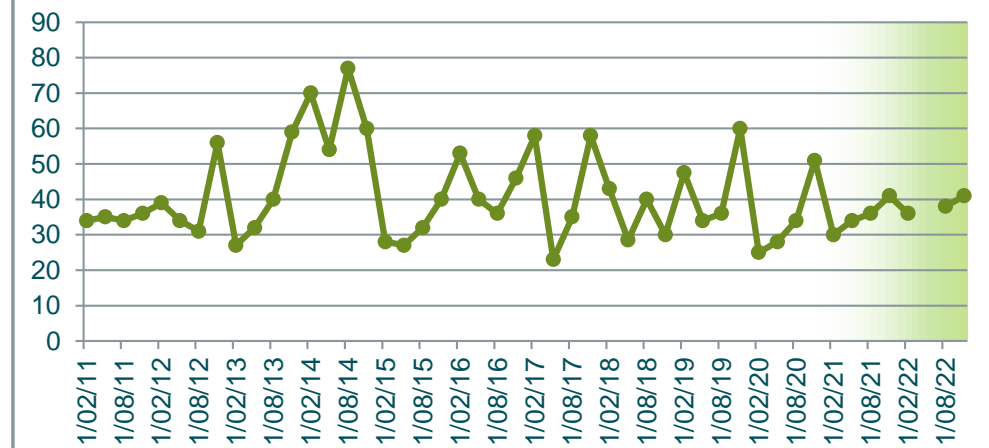
Cadmium (Total)
mg/L



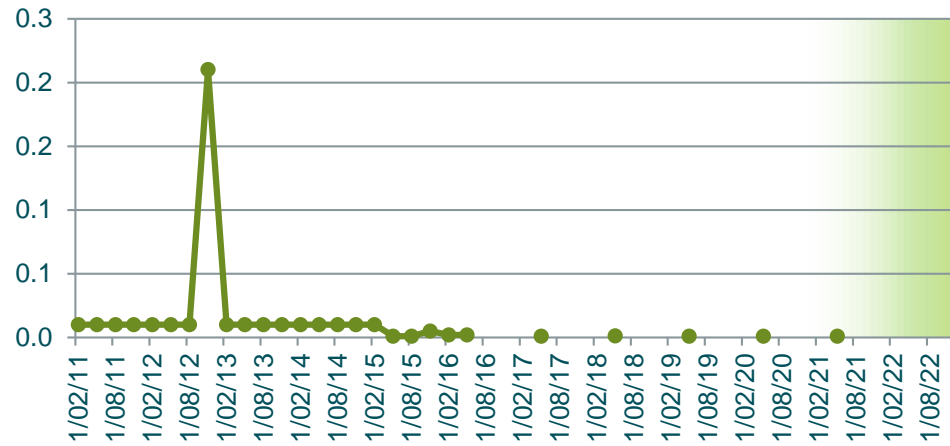
Calcium (Total)
mg/L



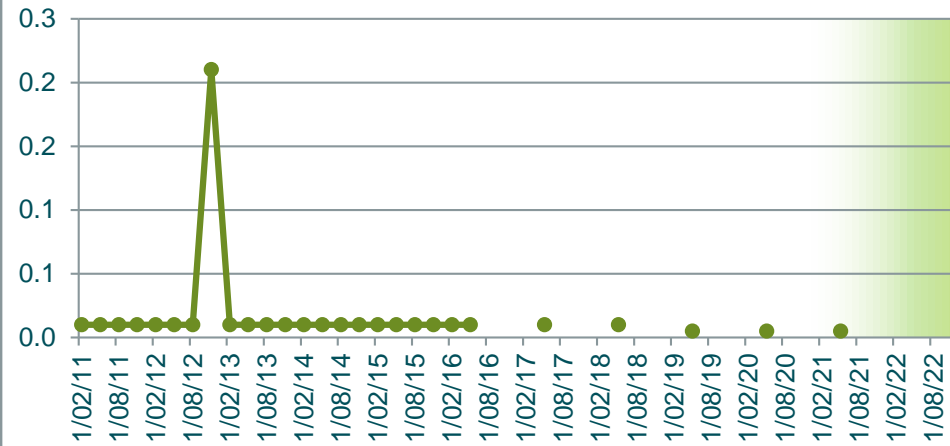
Chloride
mg/L



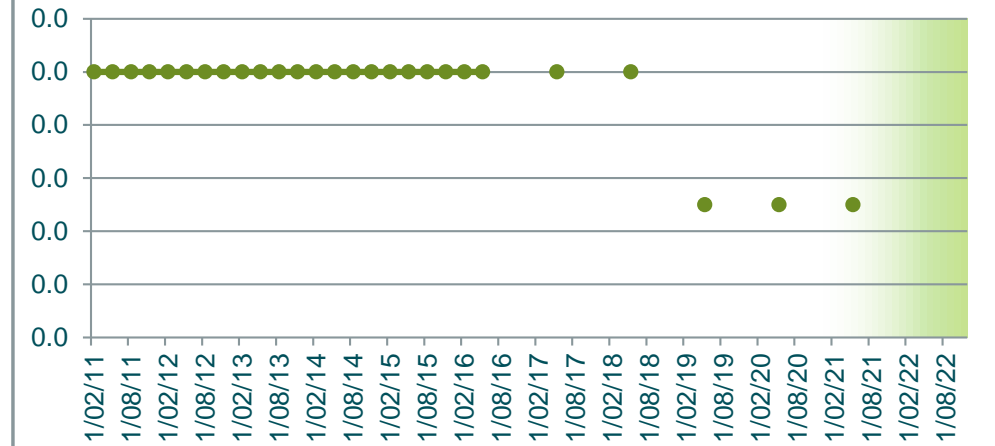
Chromium (Total) mg/L



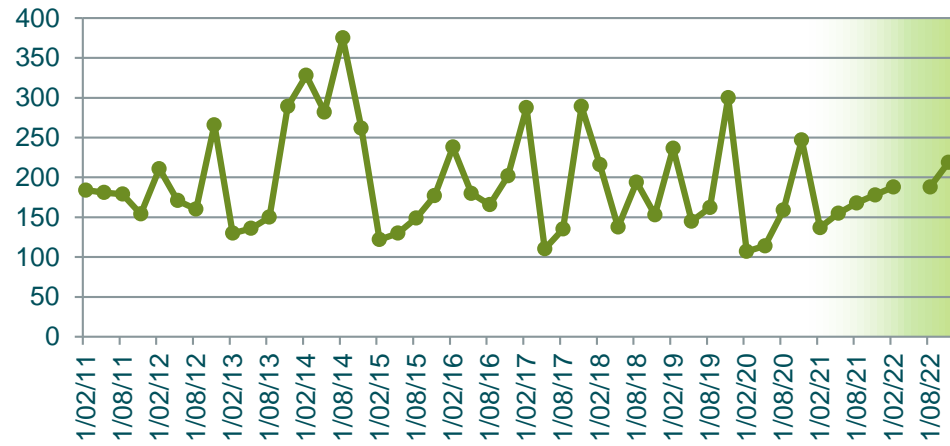
Chromium 3 mg/L



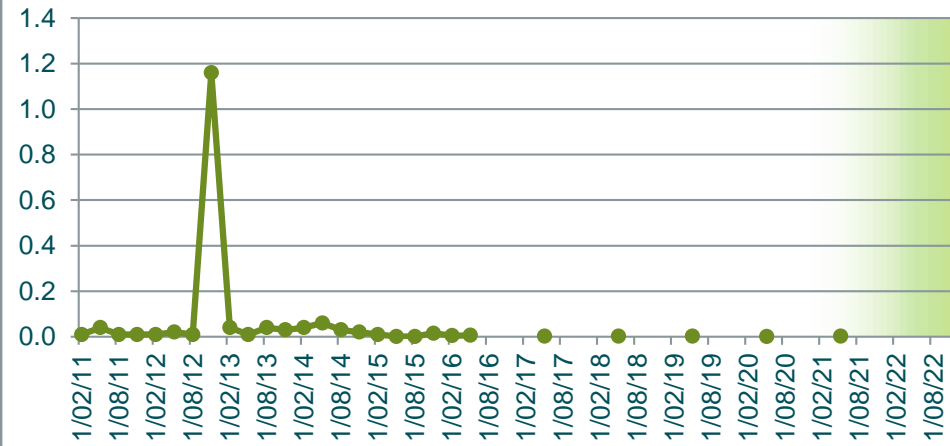
Chromium 6 mg/L



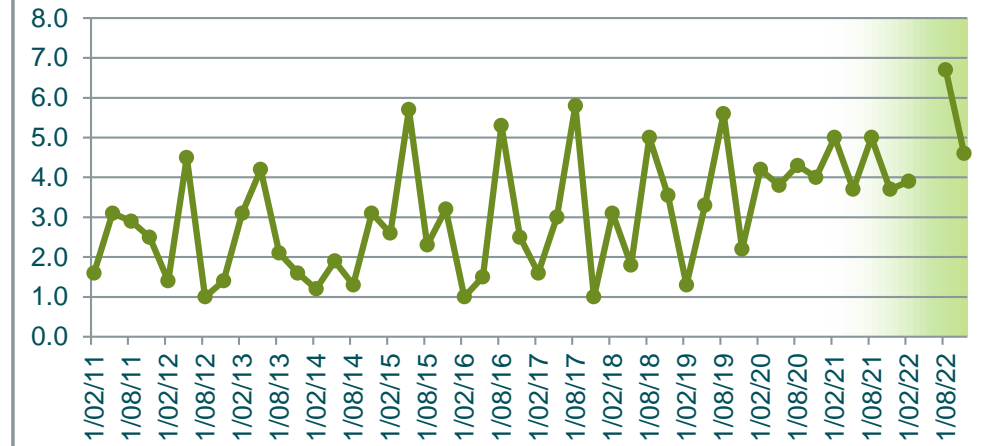
Conductivity µScm-1



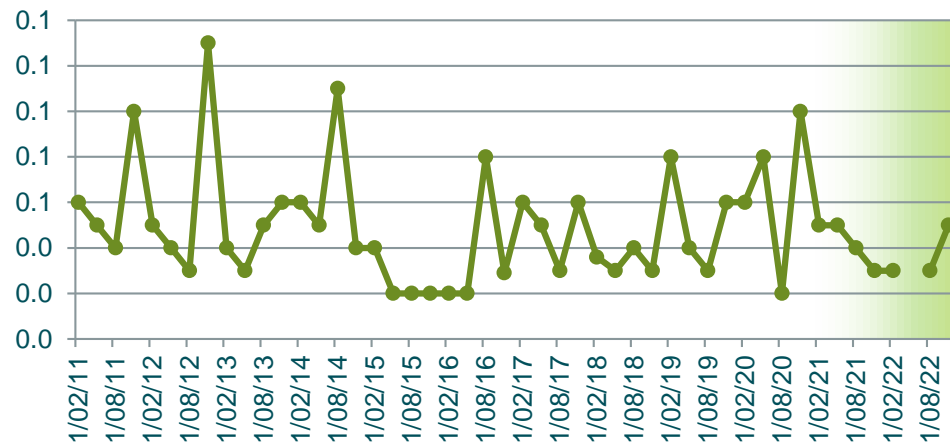
Copper (Total) mg/L



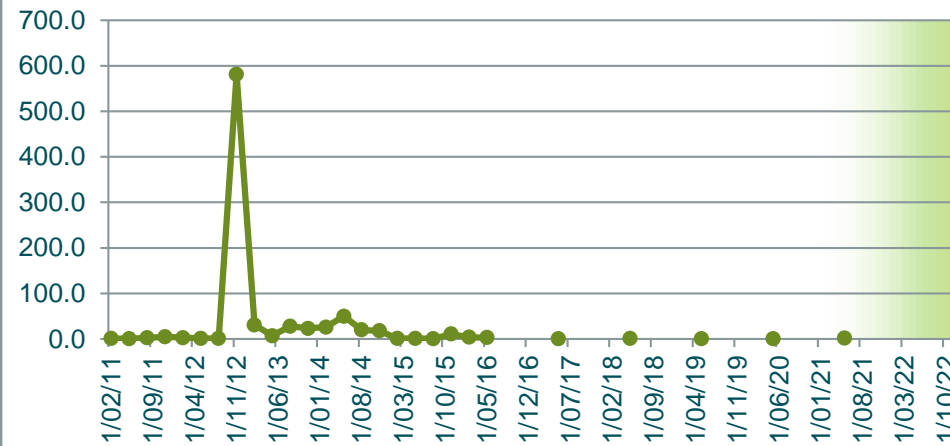
DO (Membrane Electrode) mg/L



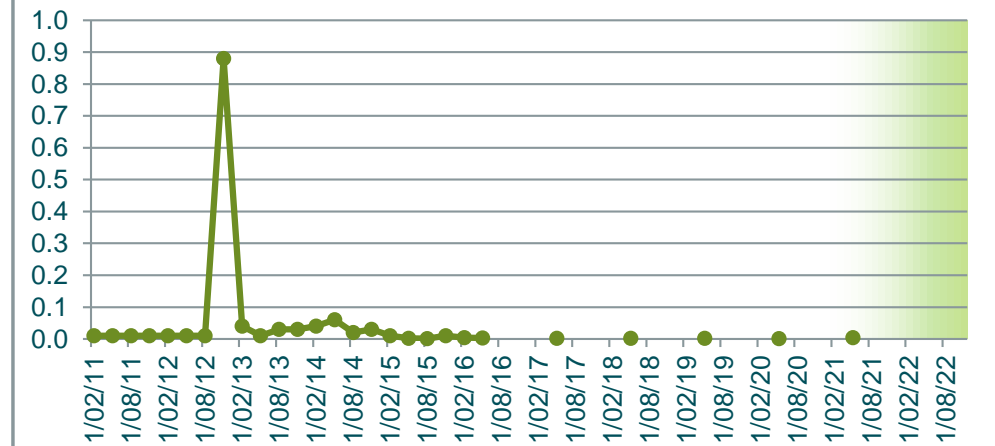
Flouride mg/L



Iron Total mg/L



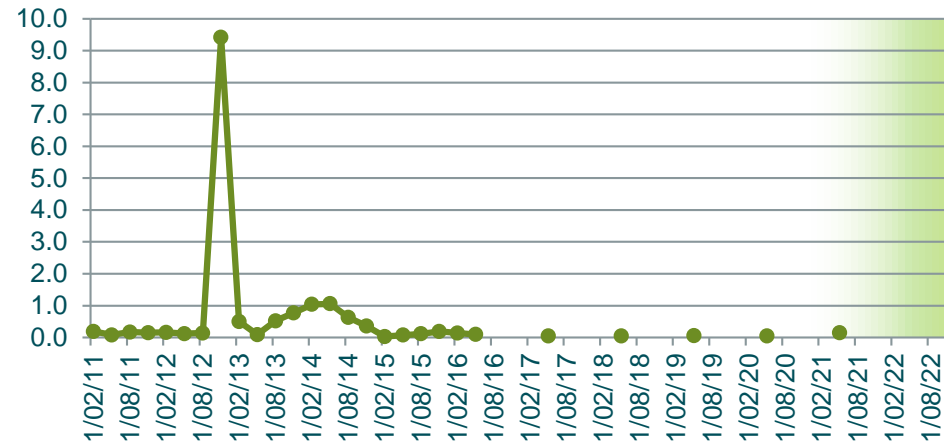
Lead (Total) mg/L



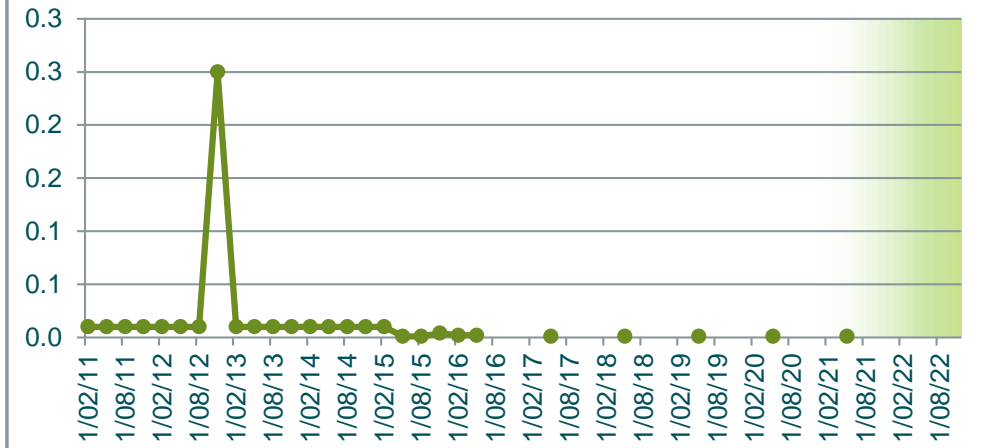
Magnesium (Total) mg/L



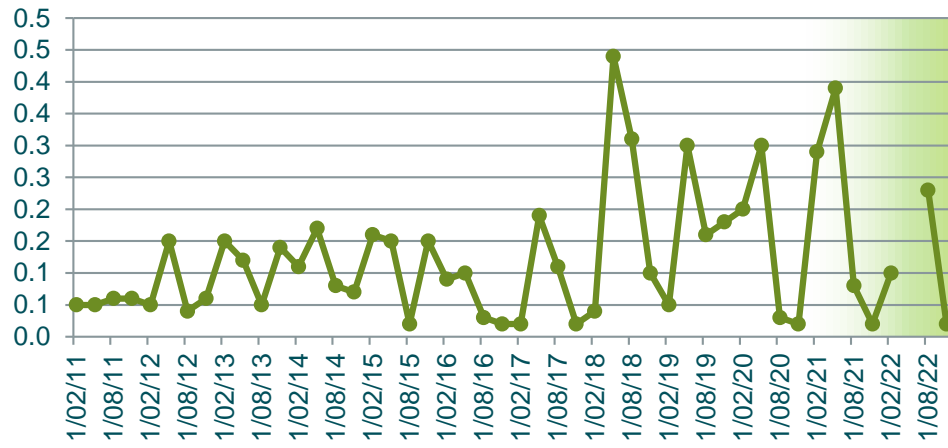
Manganese Total mg/L



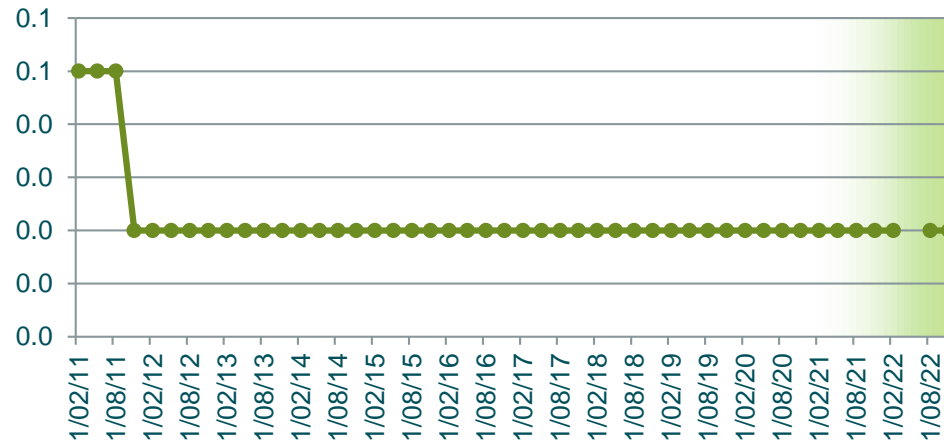
Nickel (Total) mg/L



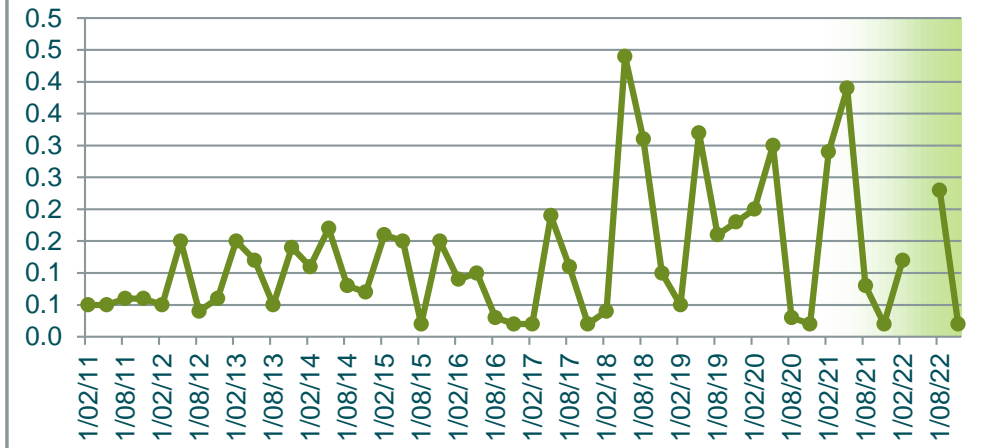
Nitrate N mg/L



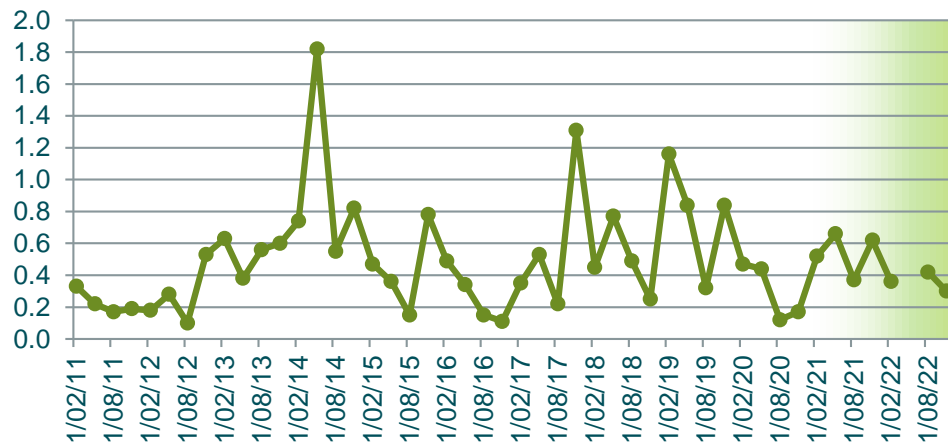
Nitrite N mg/L



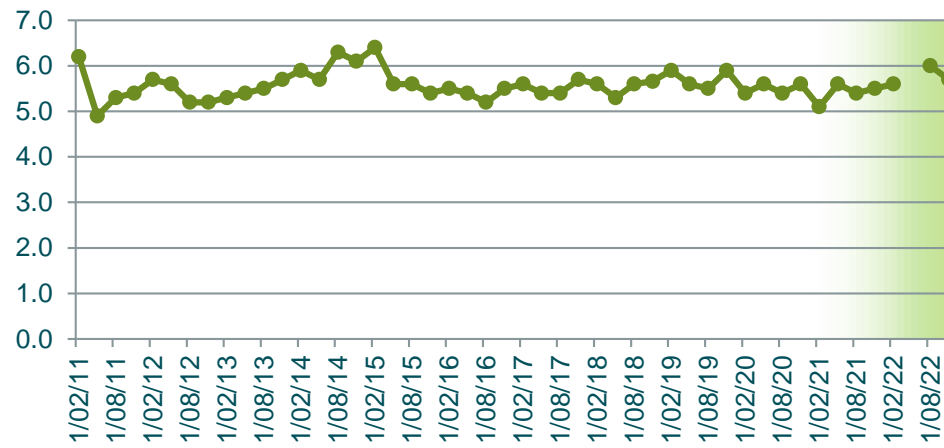
Nitrogen Oxidised mg/L



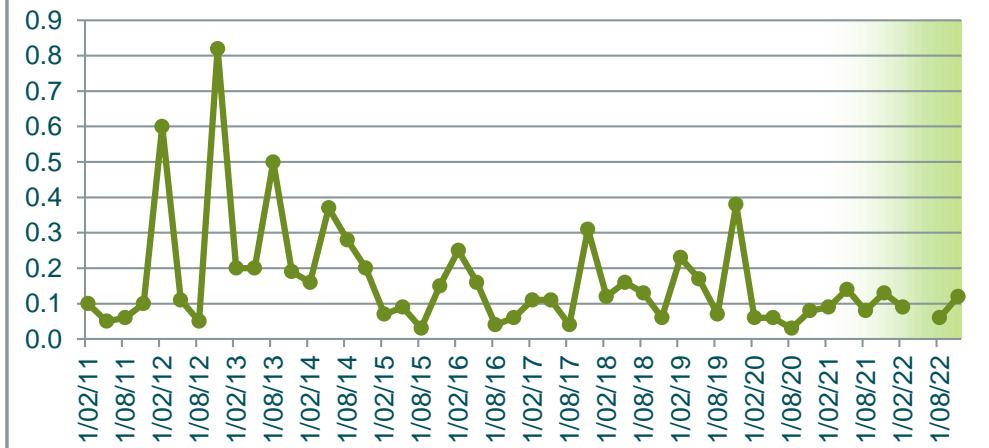
Nitrogen Total mg/L



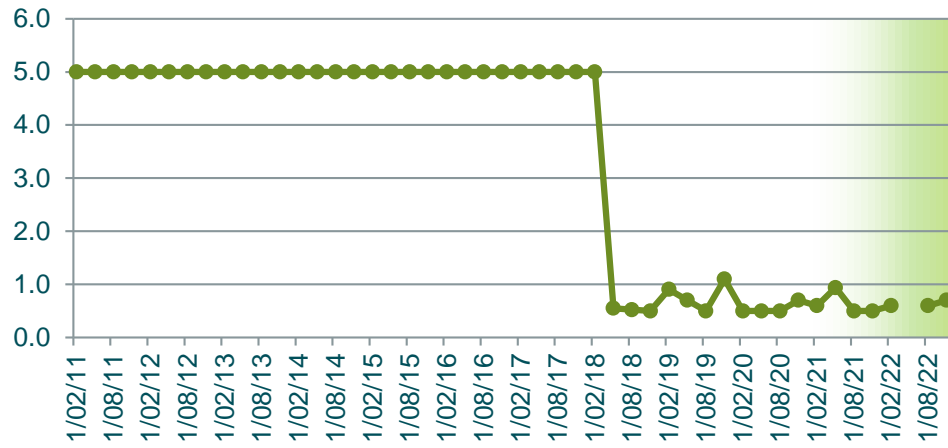
pH pH units



Phosphorus Total mg/L



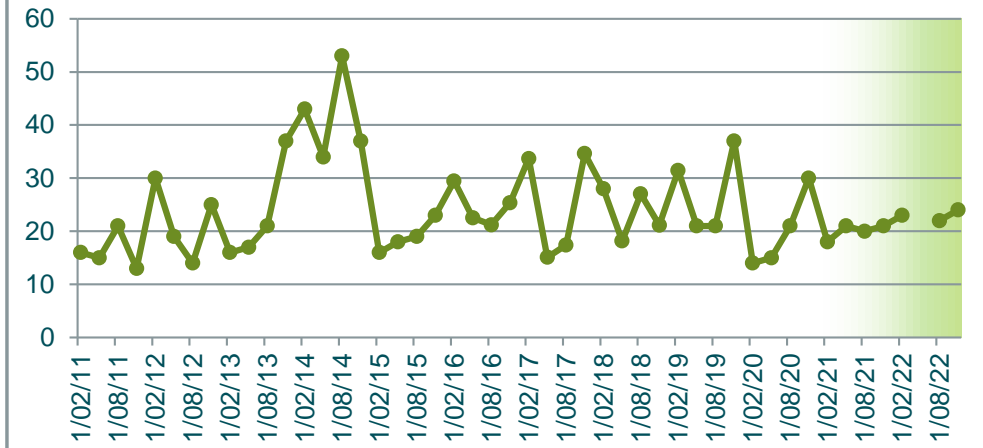
**Potassium Total
mg/L**



**Redox Potential
mV**



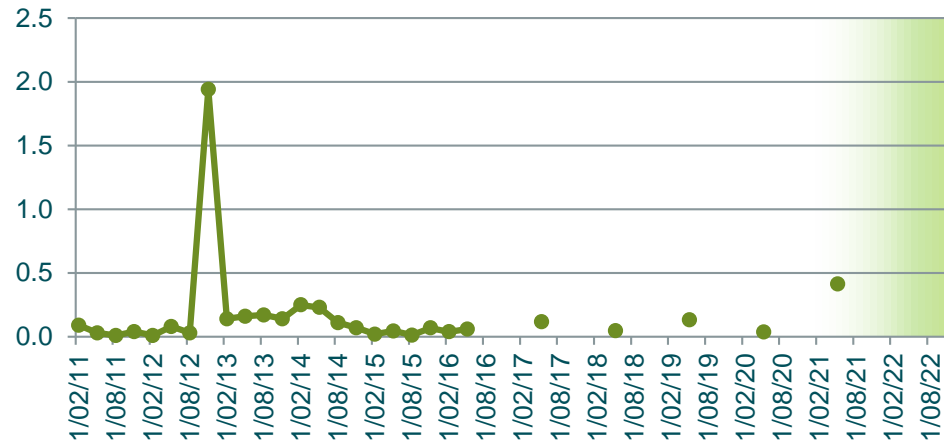
**Sodium (Total)
mg/L**



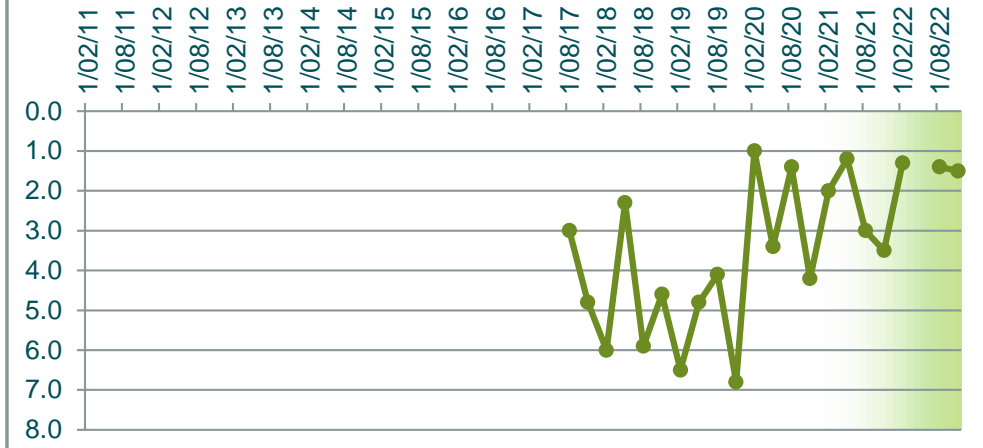
**Total Acidity
mg/L CaCO3**



**Zinc (Total)
mg/L**



**Depth to Groundwater
m**

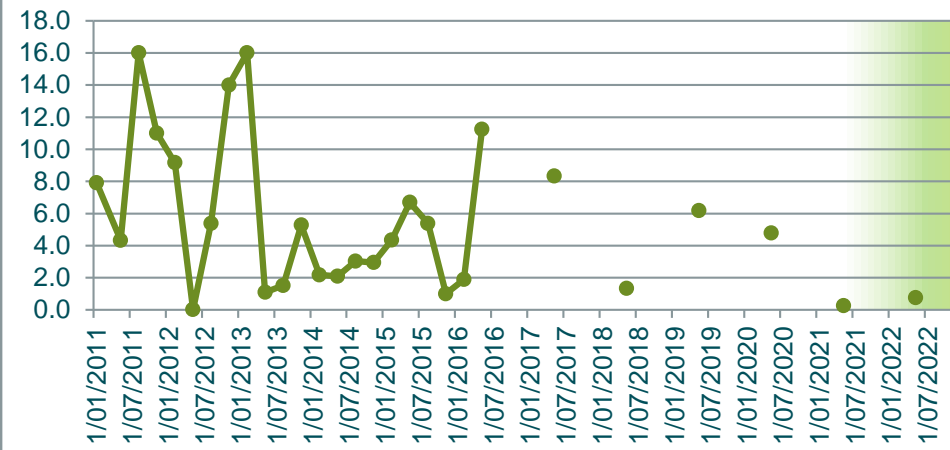


8/11/2021	1211		0.3		1211	3.9		53	1530				6478		3.1	0.8			201			0.1	0.0	0.1	1.9	7.2	0.0	6.2	45	23	1040	290	21	1.9	33	61		1.0
8/02/2022	1052		1.1		1052	8.4		51	1320				5951		2.3	0.6			183			0.0	0.0	0.0	3.2	7.3	0.0	6.8	42	-53	921	269	23	3.1	36	75		1.0
10/05/2022	314	0.8	0.5	0.0	314	6.6	0.0	20	390	0.0	0.0	0.0	2026	0.0	2.0	0.3	2	0.0	62	1.5	0.0	4.2	0.0	4.2	5.9	7.1	0.0	2.7	18	-16	292	115	22	1.7	13	29	1.2	0.7
9/08/2022	1062		0.0		1062	3.3		51	1800				6295		3.8	0.9			194			0.2	0.0	0.2	1.9	7.4	0.0	5.6	44	125	1040	298	20	1.7	30	40		1.1
8/11/2022	1097		0.4		1097	1.5		50	1410				6321		3.0	0.8			173			0.0	0.0	0.0	3.0	7.2	0.0	6.3	52	-25	995	299	20	3.0	32	50		1.3
2022 Min	314	1	0	0	314	2	0	20	390	0	0	0	2026	0	2	0	2	0	62	2	0	0	0	0	2	7	0	3	18	-53	292	115	20	2	13	29	1	1
2022 Max	1097	1	1	0	1097	8	0	51	1800	0	0	0	6321	0	4	1	2	0	194	2	0	4	0	4	6	7	0	7	52	125	1040	299	23	3	36	75	1	1
2022 Mean	881	1	0	0	881	5	0	43	1230	0	0	0	5148	0	3	1	2	0	153	2	0	1	0	1	3	7	0	5	39	7	812	245	21	2	28	49	1	1
Long-term Average	1008	6	2	0	861	13	0	50	1503	0	0	0	6277	0	3	1	10	0	192	3	0	0	0	5	7	0	6	49	11	1052	279	21	4	56	76	1	1	

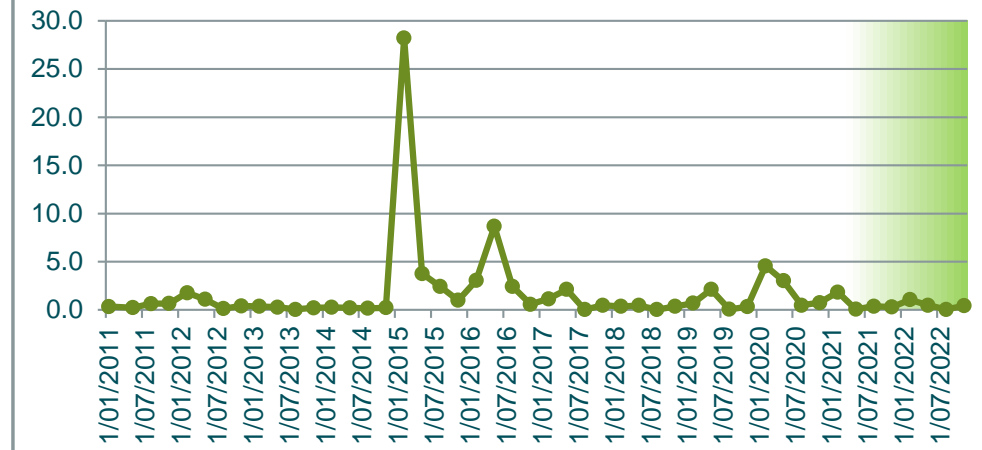
Alkalinity
mg/L as CaCO₃



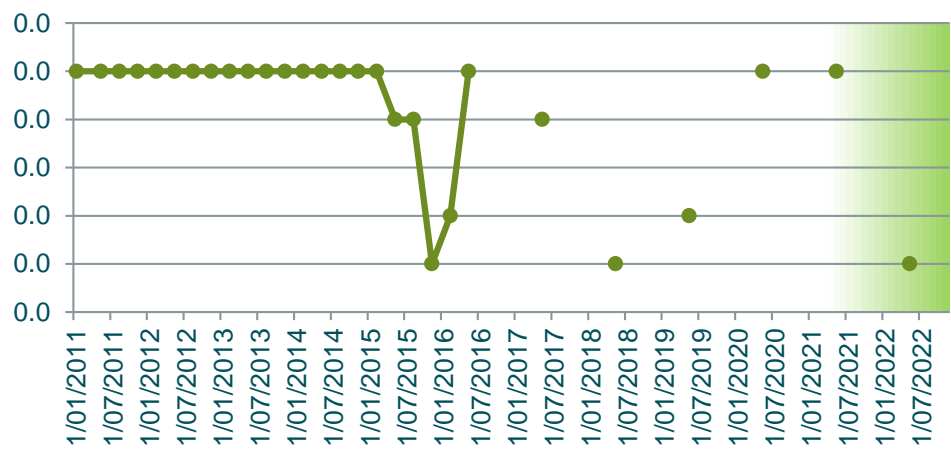
Aluminium (Total)
mg/L



Ammonia
mg/L



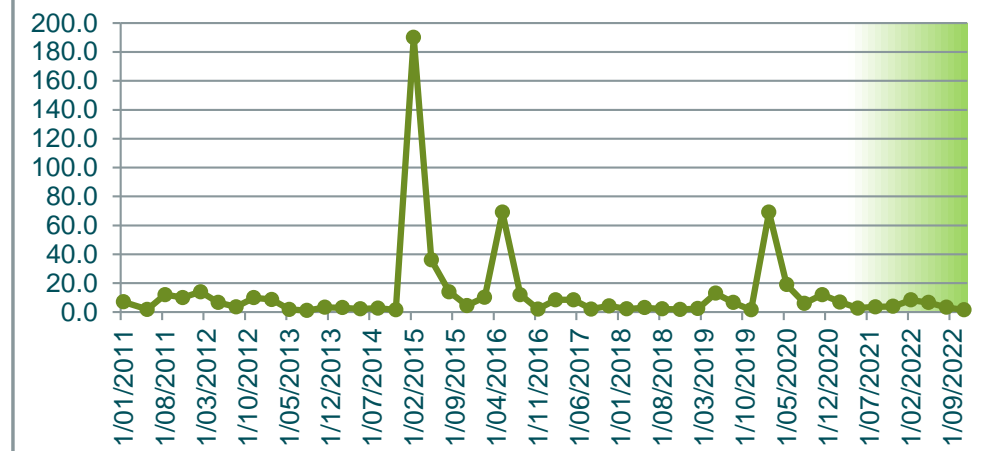
Arsenic (Total)
mg/L



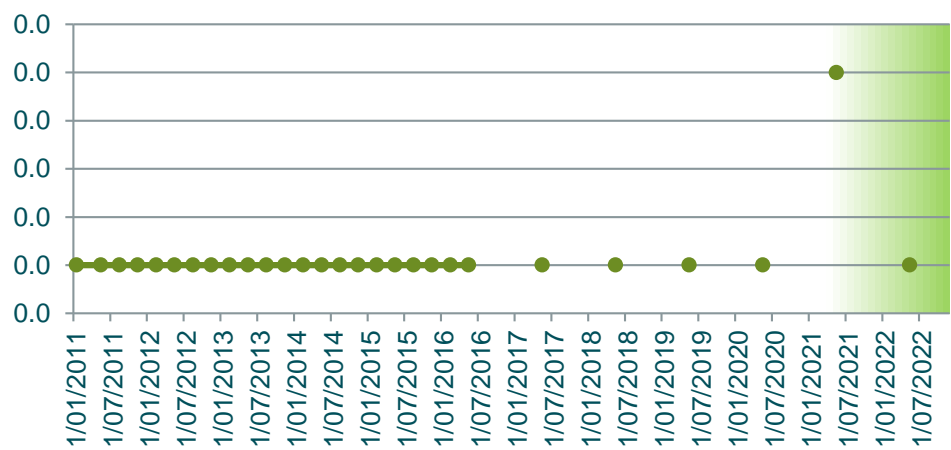
Bicarbonate HCO₃
mg/L



BOD₅
mg/L



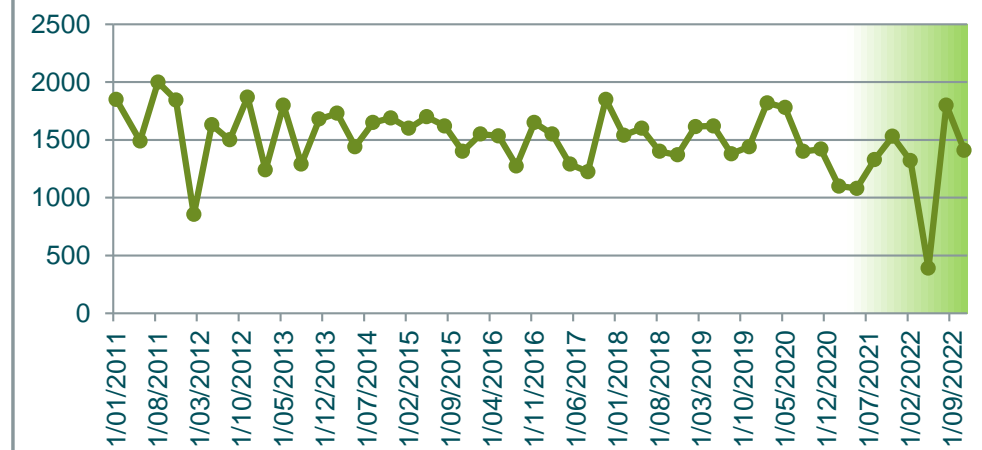
Cadmium (Total)
mg/L



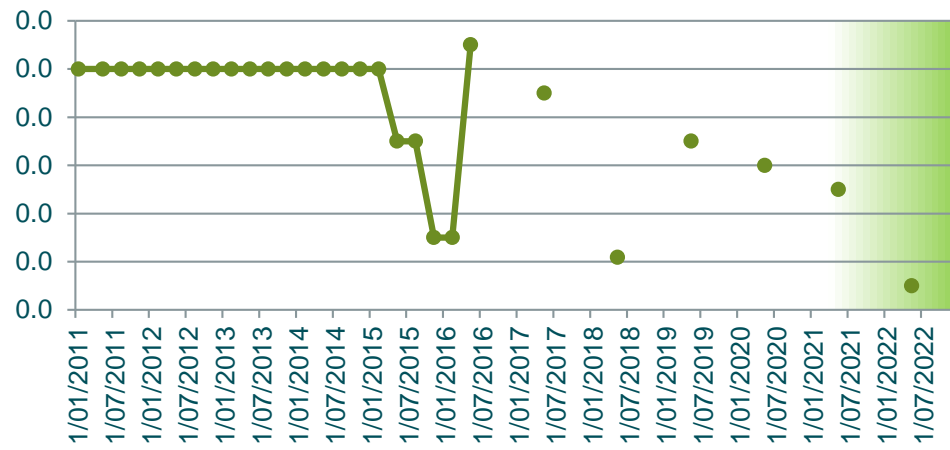
Calcium (Total)
mg/L



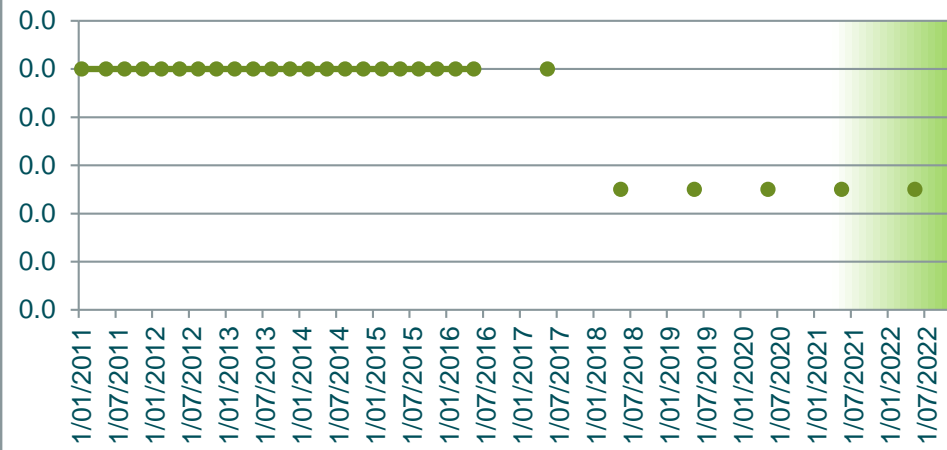
Chloride
mg/L



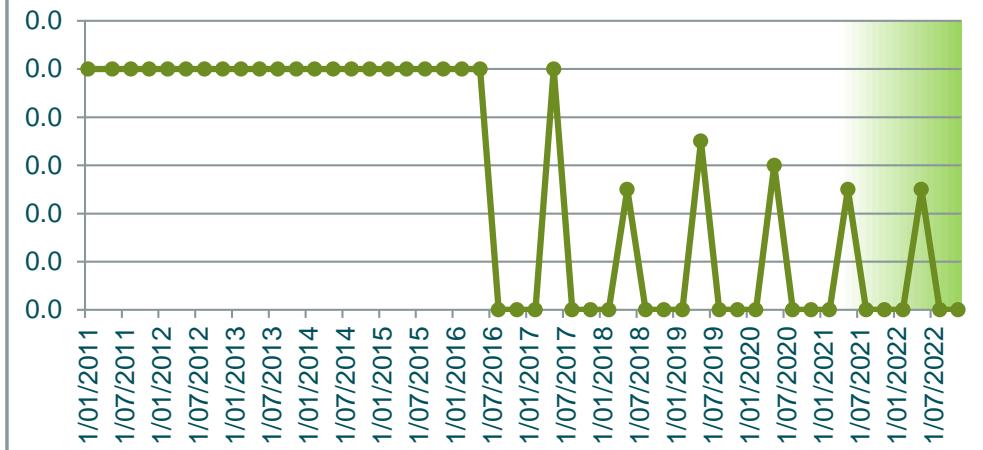
**Chromium (Total)
mg/L**



**Chromium 3
mg/L**



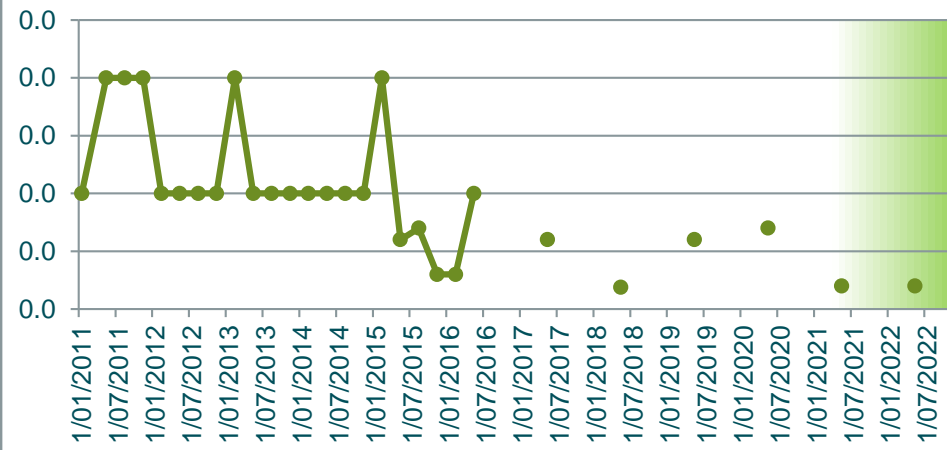
**Chromium 6
mg/L**



**Conductivity
µScm-1**



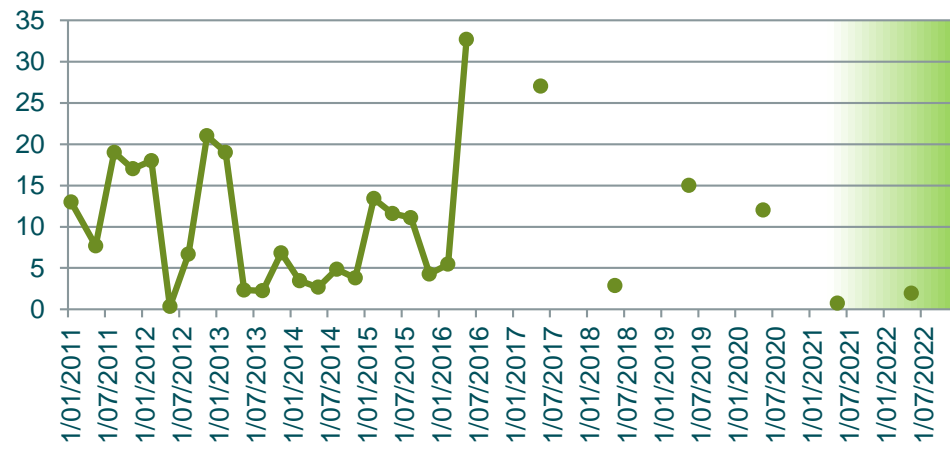
**Copper (Total)
mg/L**



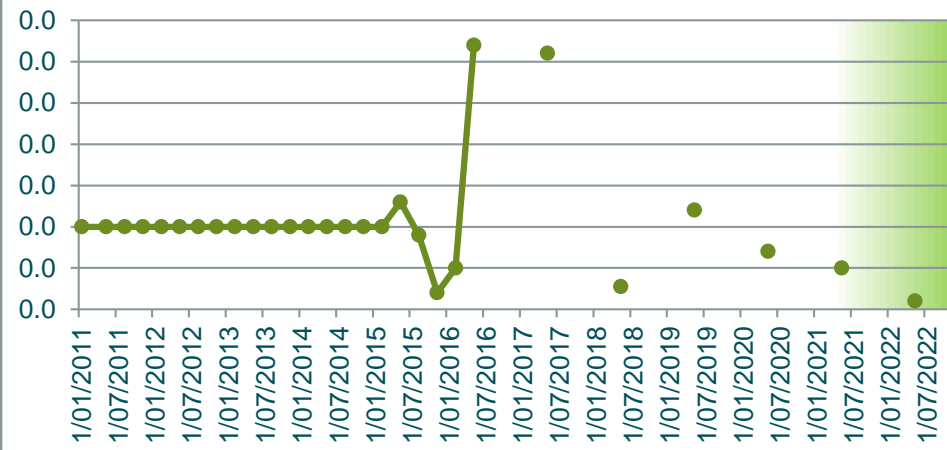
**Flouride
mg/L**



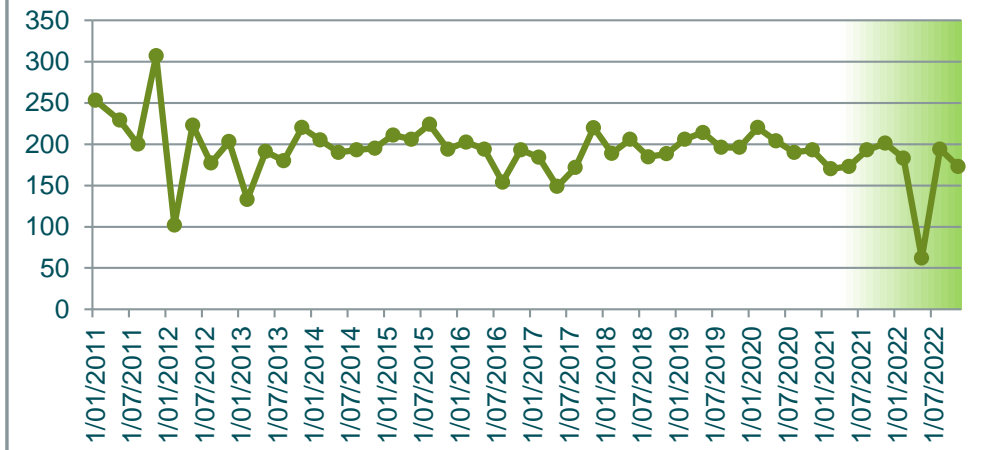
**Iron Total
mg/L**

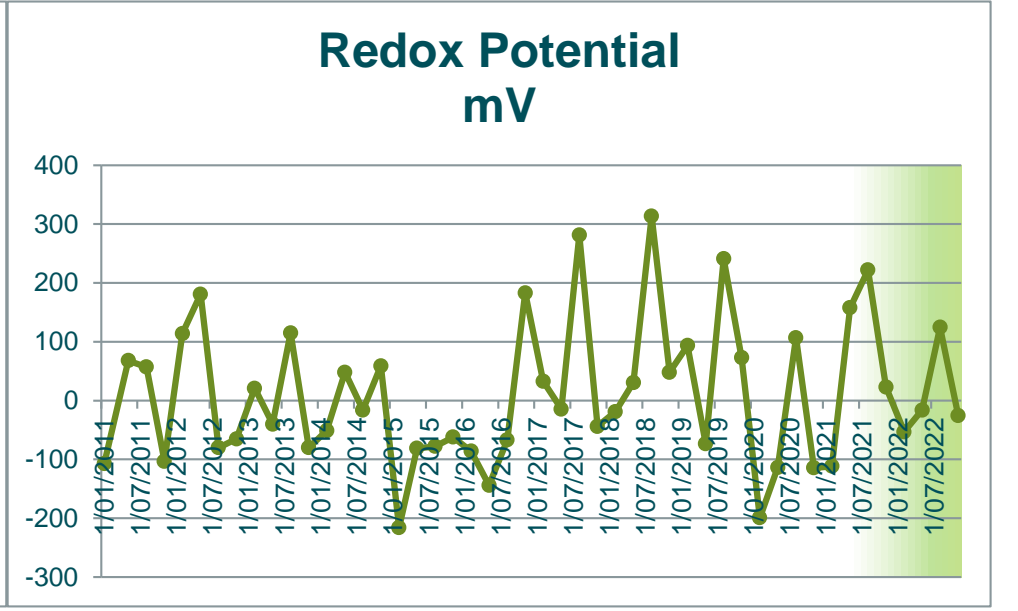
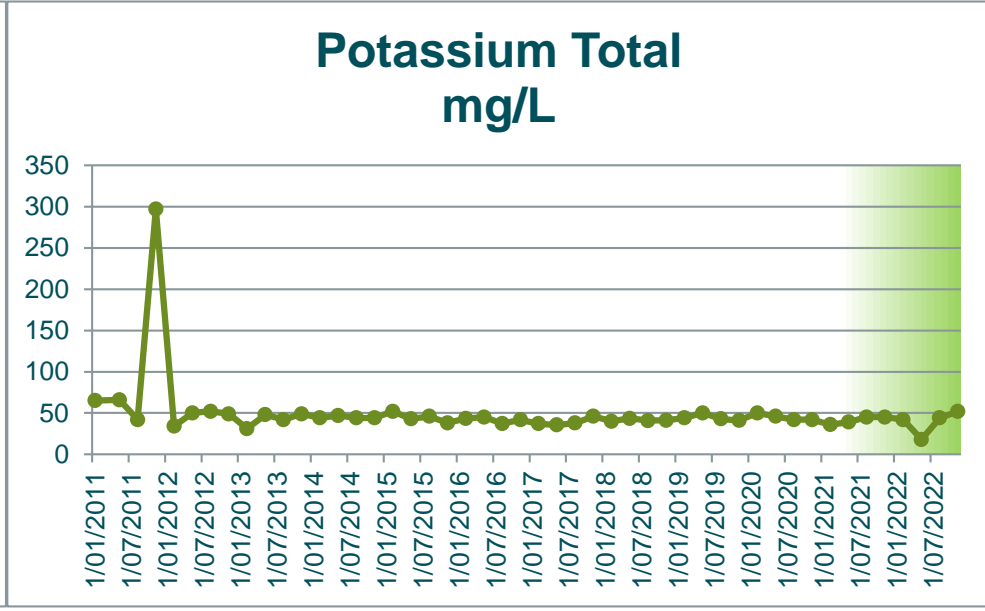
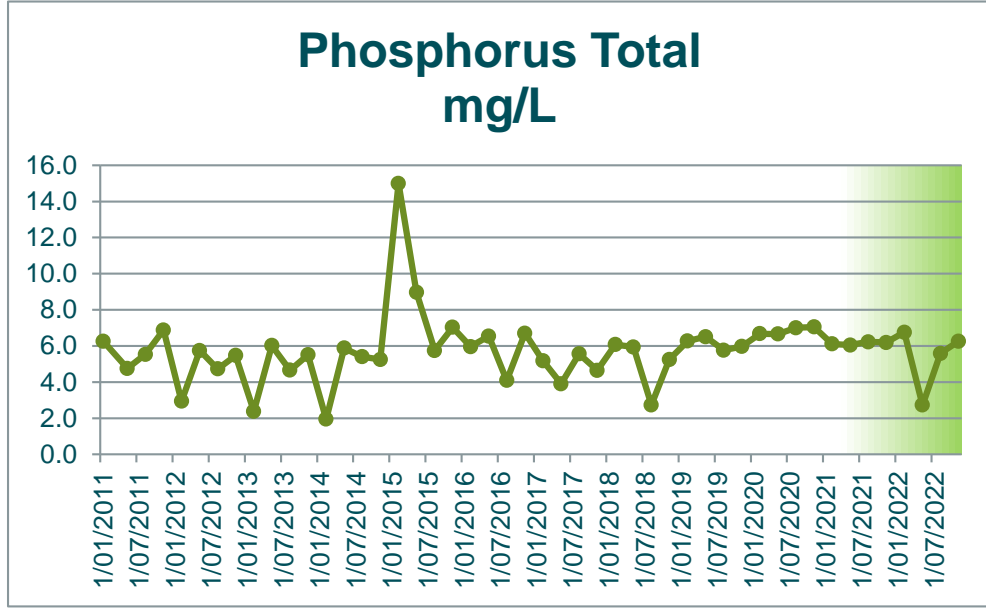
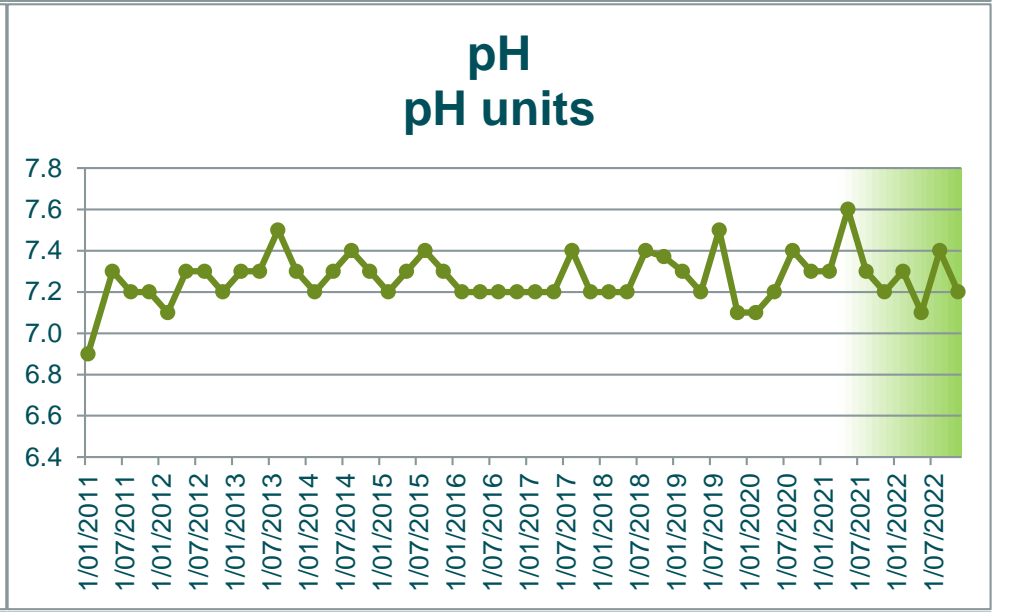
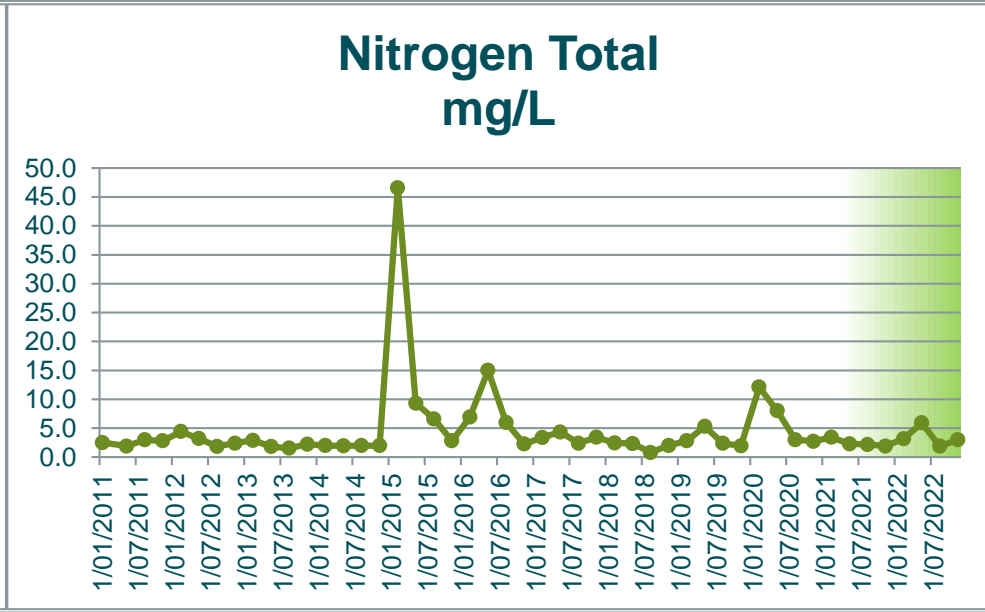
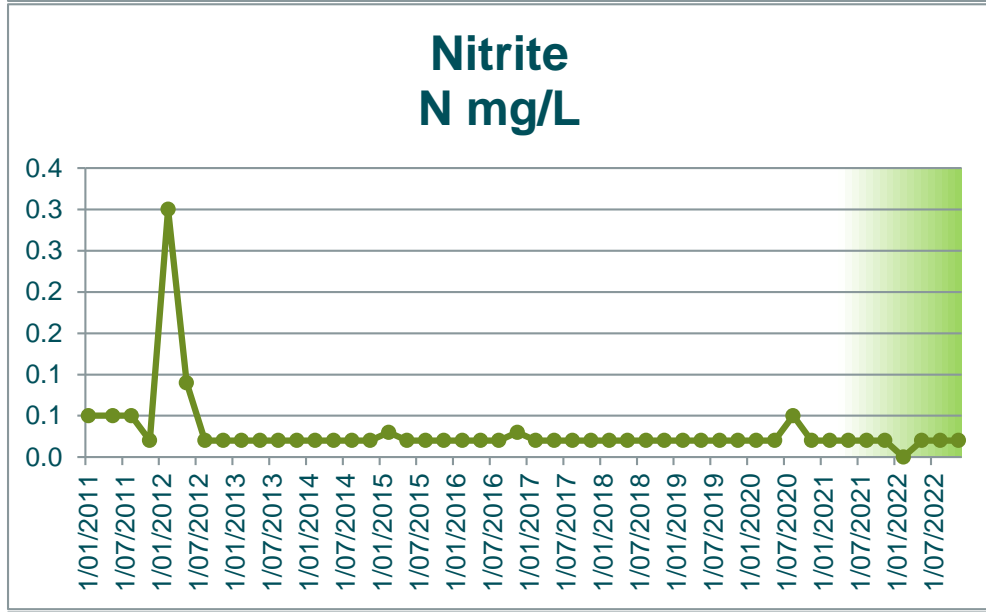
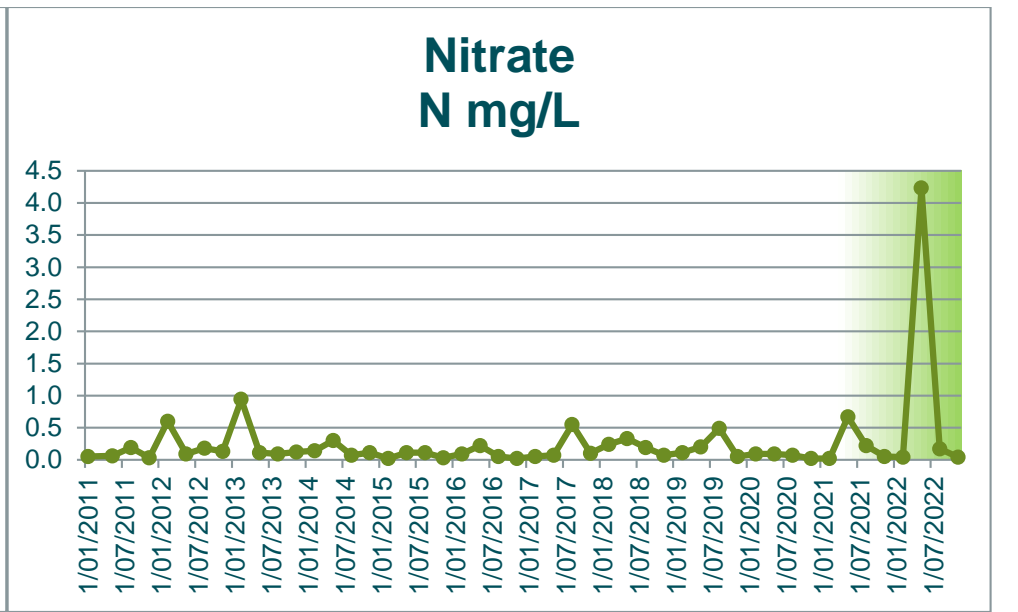
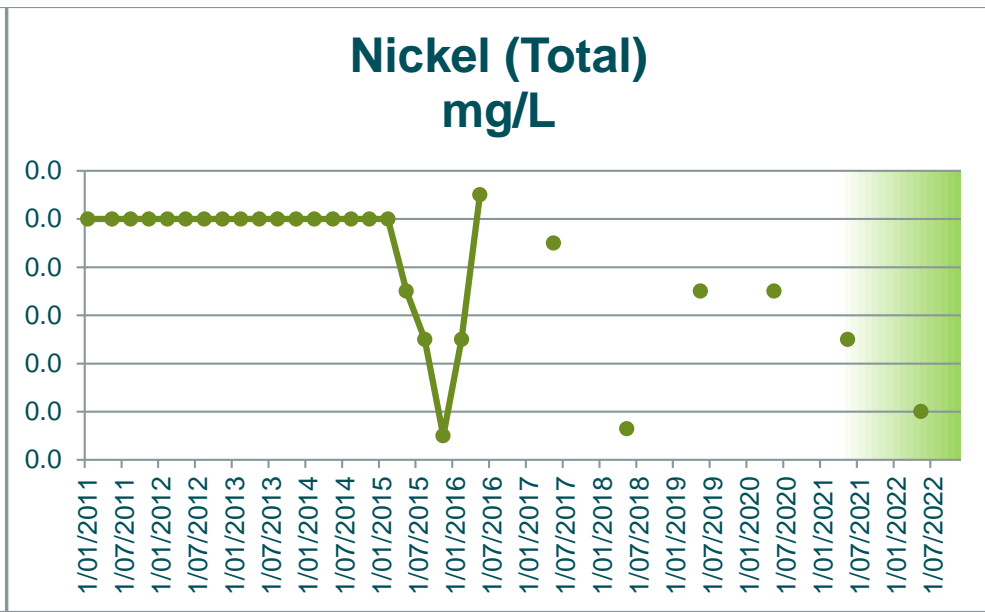
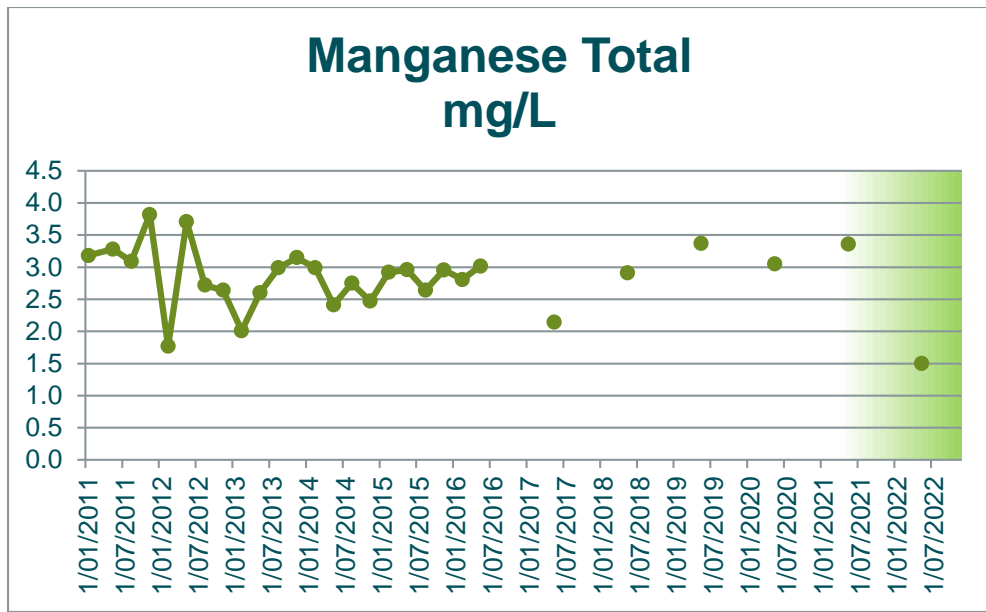


**Lead (Total)
mg/L**



**Magnesium (Total)
mg/L**

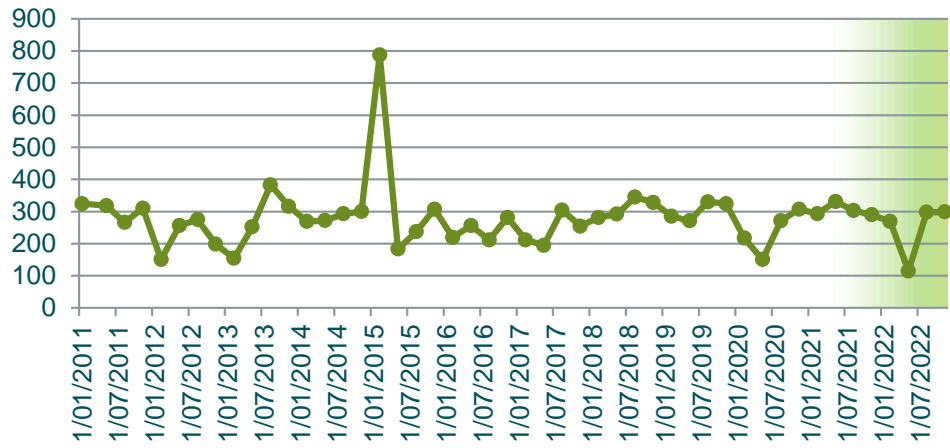




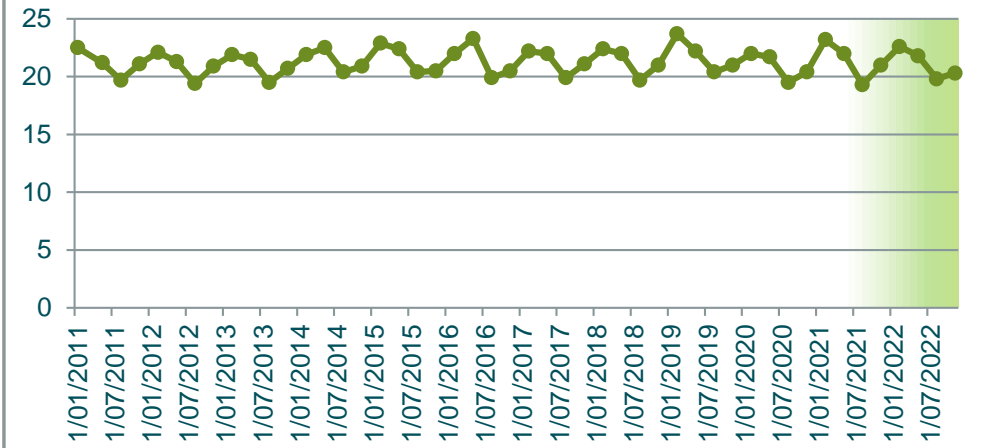
Sodium (Total) mg/L



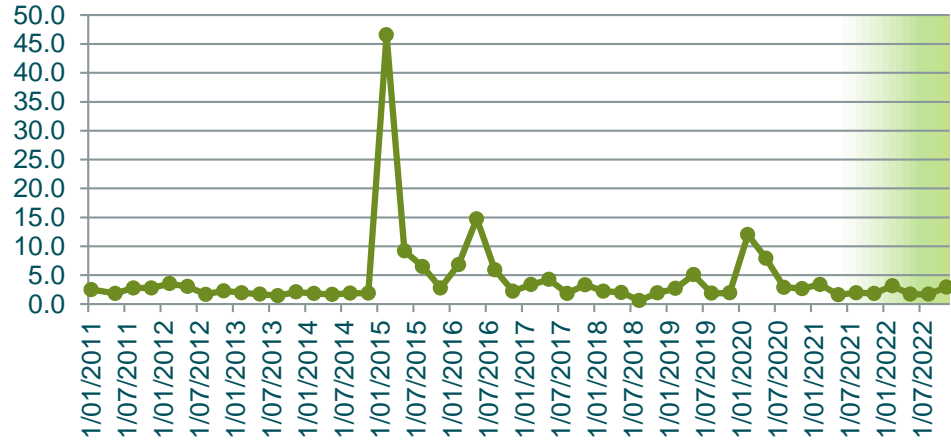
Sulphate mg/L



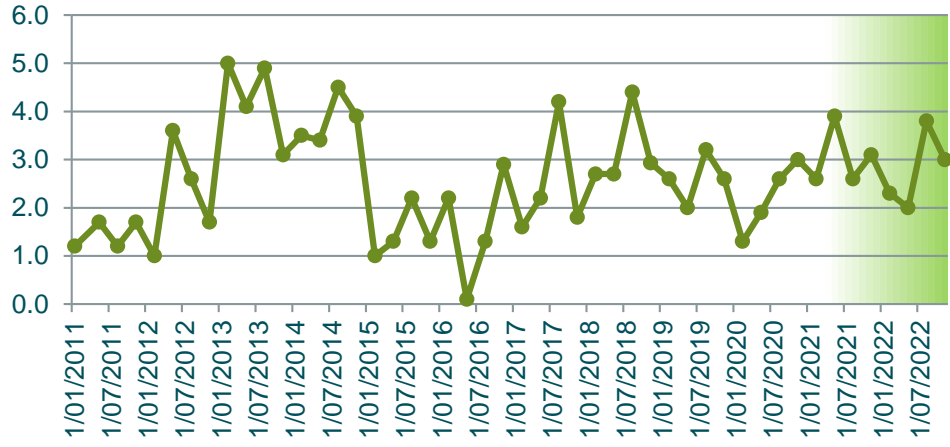
Temperature C



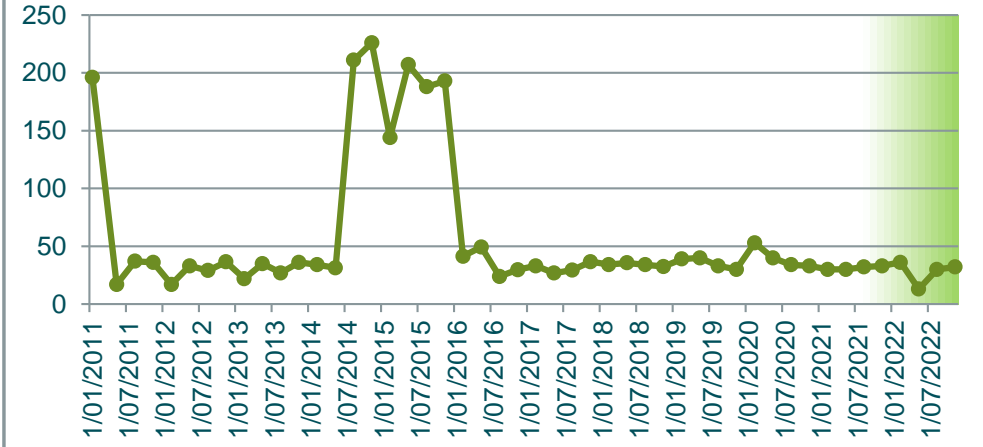
TKN mg/L



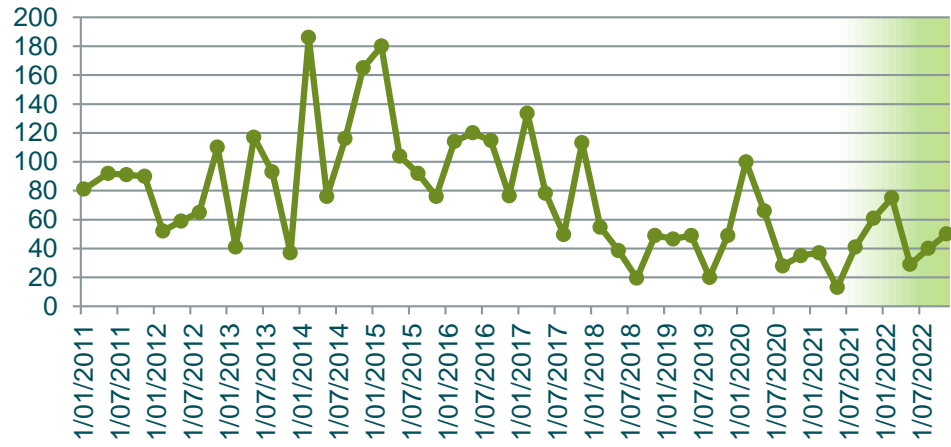
DO (Membrane Electrode) mg/L



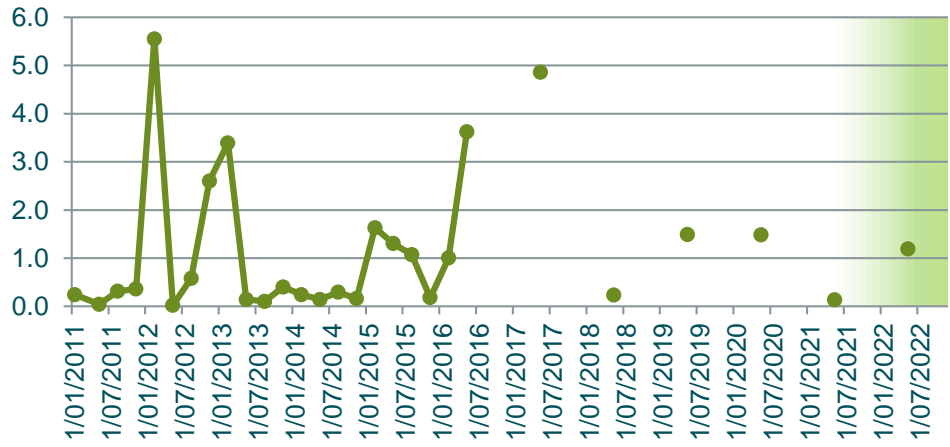
TOC mg/L



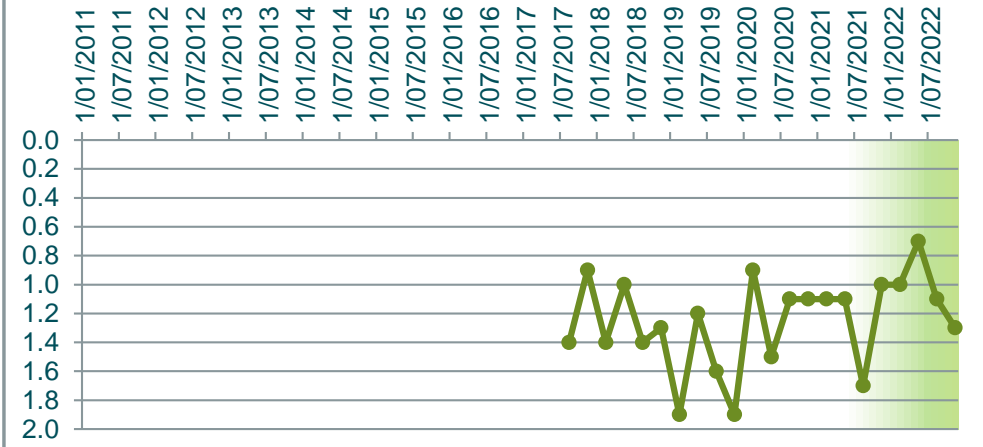
Total Acidity mg/L CaCO3



Zinc (Total) mg/L



Depth to Grounwater m

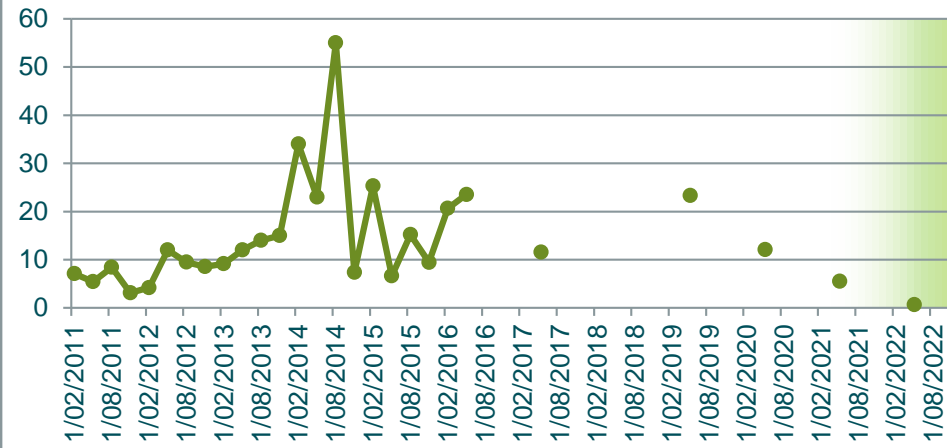


15/08/2018	2.6		0.0		3.0	1.5		0.6	19				94		5.6	0.0			1.5			0.6	0.0	0.6	1.0	4.7		0.3	0.5	456	13	6.9	21	0.5	7.5	60		10.1
14/11/2018	2.1		0.0		2.0	1.8		0.6	15				94		5.6	0.0			1.4			0.6	0.0	0.6	1.1	4.7		0.3	0.5	341	13	7.1	22	0.5	0.7	70		9.0
13/02/2019	2.9		0.0		3.0	1.2		0.5	23				96		5.6	0.0			1.4			0.4	0.0	0.4	1.1	4.6		0.4	0.6	419	14	7.6	22	0.7	0.8	63		10.4
15/05/2019	3.0	23	0.0	0.0	3.0	1.0	0.0	0.6	18	0.0	0.0	0.0	92	0.1	5.9	0.0	36	0.0	1.3	6.5	0.0	0.6	0.0	0.6	1.1	4.7		0.5	0.6	316	13	7.1	21	0.4	0.4	63	0.3	8.7
14/08/2019	3.0		0.0		3.0	1.0		0.8	17				94		6.2	0.0			1.5			0.7	0.0	0.7	1.1	4.8		0.4	0.5	365	13	6.9	20	0.4	1.0	54		8.6
13/11/2019	6.0		0.0		6.0	1.0		0.3	32				100		5.6	0.1			1.0			0.4	0.0	0.4	1.3	5.0		0.5	0.6	322	14	7.3	21	0.8	0.5	64		11.0
26/02/2020	2.0		0.1		2.0	1.0		0.9	16				84		6.9	0.0			1.2			0.7	0.0	0.7	1.0	4.9	0.0	0.1	0.5	245	10	6.0	22	0.3	1.0	39		5.0
13/05/2020	1.0	12	0.0	0.0		3.3	0.0	0.6	22	0.0	0.0	0.0	99	0.0	6.0	0.0	14	0.0	1.4	3.1	0.0	0.7	0.0	0.7	1.1	4.4	0.0	0.1	0.5	331	12	6.9	21	0.4	0.6	56	0.1	7.9
12/08/2020	2.0		0.0		2.0	1.0		0.8	16				86		6.4	0.0			1.4			0.5	0.0	0.5	0.7	4.5	0.0	0.1	0.5	364	12	5.7	21	0.2	1.0	54		7.3
11/11/2020	2.0		0.0		2.0	1.2		0.6	20				90		5.3	0.1			1.4			0.6	0.0	0.6	1.8	4.4	0.0	0.5	0.5	409	12	6.4	21	1.2	0.7	65		9.5
10/02/2021	1.0		0.8		1.0	2.7		0.9	20				95		4.6	0.1			1.3			1.4	0.1	1.5	2.6	4.3	0.0	0.2	0.5	352	10	6.2	21	1.2	1.1	36		7.5
12/05/2021	1.0	5	0.0	0.0		1.0	0.0	0.7	16	0.0	0.0	0.0	89	0.0	5.2	0.0	5	0.0	1.5	0.9	0.0	0.9	0.0	0.9	1.2	4.5	0.0	0.1	0.5	360	11	6.3	21	0.3	1.0	47	0.4	6.3
11/08/2021	2.0		0.0		2.0	1.0		1.0	16				96		5.9	0.1			1.6			1.5	0.0	1.5	1.8	4.5	0.0	0.2	0.5	372	10	5.5	21	0.3	0.6	54		8.1
9/11/2021	2.0		0.0		2.0	1.0		0.7	28				97		5.5	0.0			1.5			0.7	0.0	0.7	1.0	4.5	0.0	0.2	0.5	383	12	6.2	22	0.4	0.7	61		8.7
9/02/2022	1.0		0.0		1.0	1.0		0.9	18				97		5.9	0.0			1.6			1.5	0.0	1.5	1.7	4.6	0.0	0.1	<0.5	354	11	5.5	21	0.2	0.6	63		6.2
11/05/2022	1.0	1	0.0	0.0	NP	1.0	0.0	1.1	12	0.0	0.0	0.0	75	0.0	5.3	0.0	1	0.0	1.3	0.1	0.0	1.4	0.0	1.4	1.7	4.5	0.0	0.1	0.6	343	7	4.3	21	0.3	1.9	42	0.2	4.9
10/08/2022	3.0		0.0		3.0	1.0		1.0	16				101		5.2	0.0			1.7			1.4	0.0	1.4	1.7	4.7	0.0	0.2	0.5	330	12	6.0	21	0.3	0.7	63		7.3
9/11/2022	4.0		0.0		4.0	1.5		0.7	21				103		4.7	0.0			1.4			0.4	0.0	0.4	0.7	4.8	0.0	0.6	0.5	302	13	6.6	21	0.3	1.3	68		7.1
2022 Min	1.0	5	0.0	0.0	1.0	1.0	0.0	0.7	16	0.0	0.0	0.0	89	0.0	4.6	0.0	5	0.0	1.3	0.9	0.0	0.7	0.0	0.7	1.0	4.3	0.0	0.1	0.5	352	10	5.5	21	0.3	0.6	36	0.4	6.3
2022 Max	4.0	5	0.8	0.0	2.0	2.7	0.0	1.0	28	0.0	0.0	0.0	97	0.0	5.9	0.1	5	0.0	1.6	0.9	0.0	1.5	0.1	1.5	2.6	4.5	0.0	0.2	0.5	383	12	6.3	22	1.2	1.1	61	0.4	8.7
2022 Mean	2.3	5	0.2	0.0	1.7	1.4	0.0	0.8	20	0.0	0.0	0.0	94	0.0	5.3	0.1	5	0.0	1.5	0.9	0.0	1.1	0.0	1.1	1.7	4.5	0.0	0.2	0.5	367	11	6.1	21	0.5	0.9	50	0.4	7.7
Long-term Average	2.8	15	0.1	0.0	2.3	1.7	0.0	0.8	19	0.0	0.0	0.0	95	0.0	5.4	0.0	20	0.0	1.4	4.4	0.0	0.7	0.0	0.7	1.1	4.7	0.0	0.3	3.5	303	12	6.3	21	0.4	1.2	66	0.2	8.6

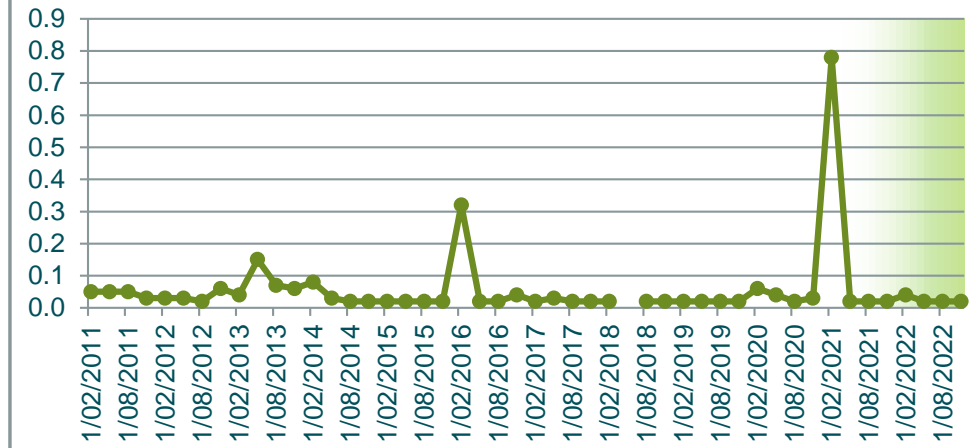
**Alkalinity
mg/L as CaCO₃**



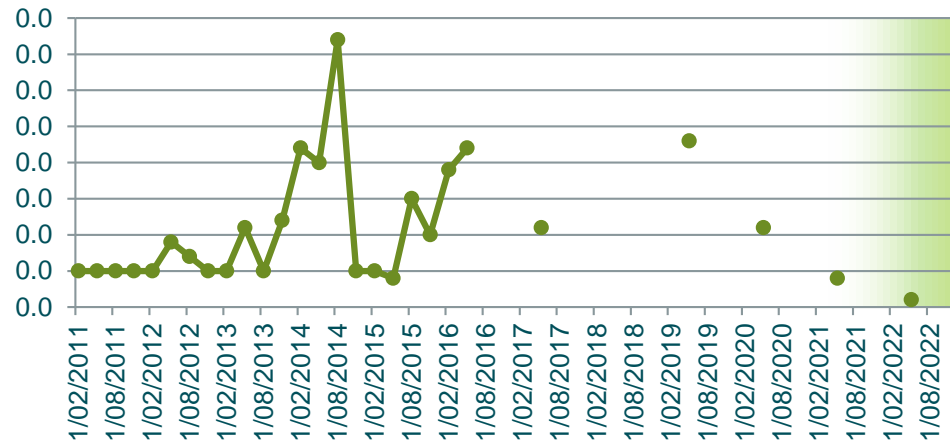
**Aluminium (Total)
mg/L**



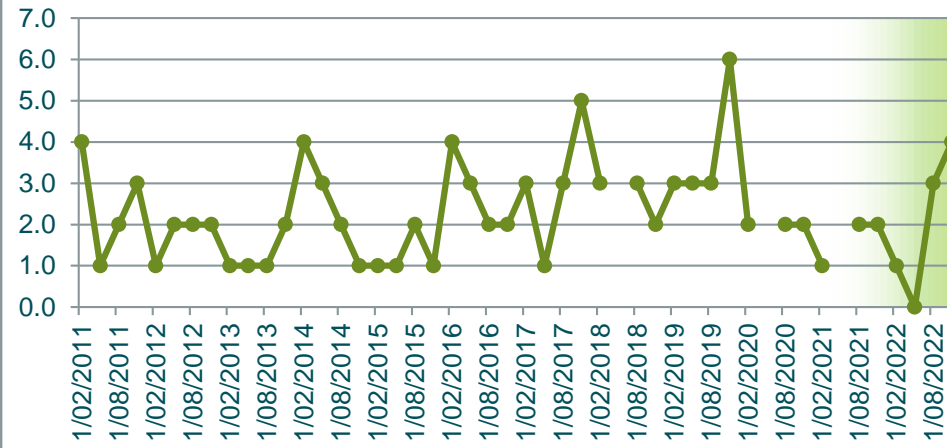
**Ammonia
mg/L**



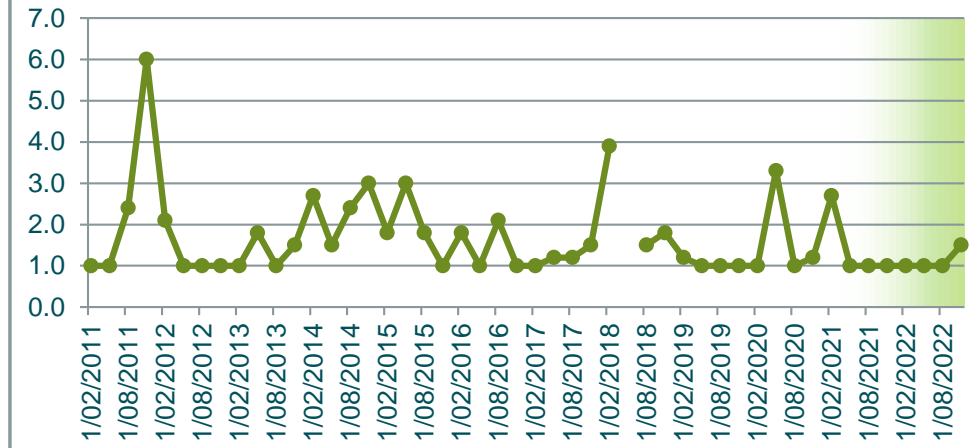
**Arsenic (Total)
mg/L**



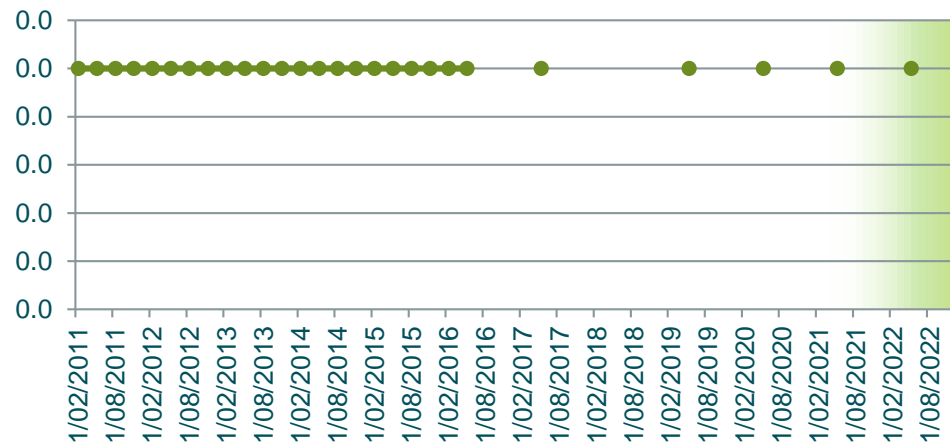
**Bicarbonate HCO₃
mg/L**



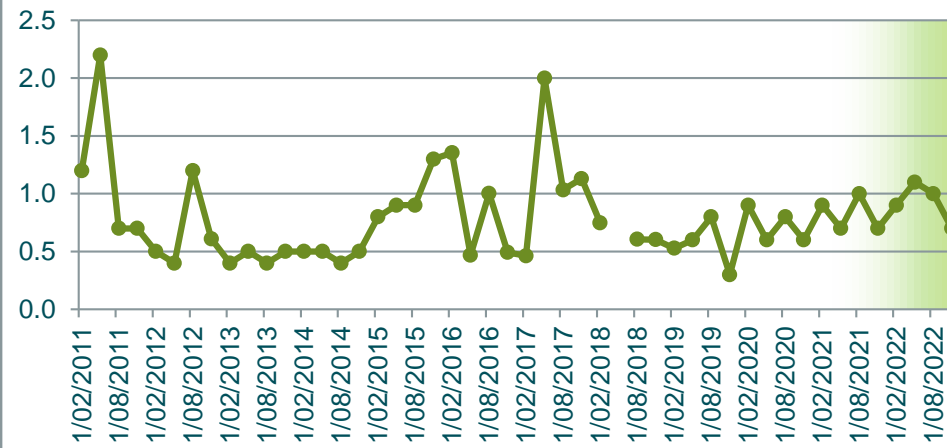
**BOD₅
mg/L**



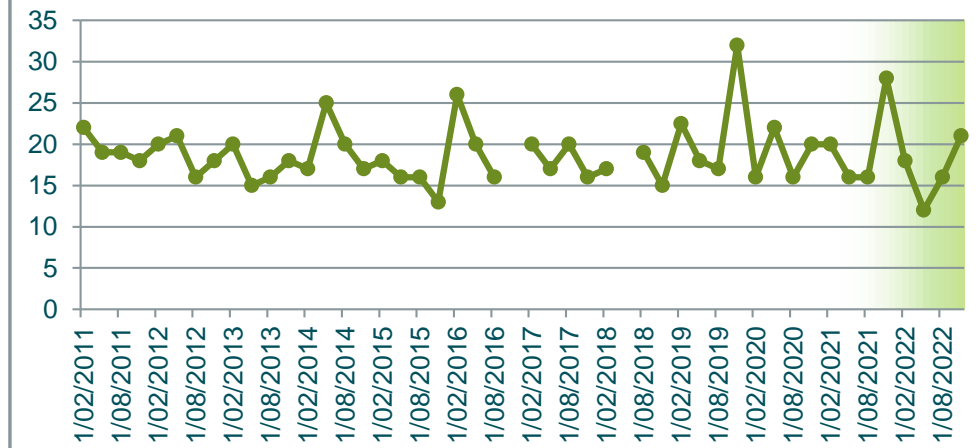
**Cadmium (Total)
mg/L**

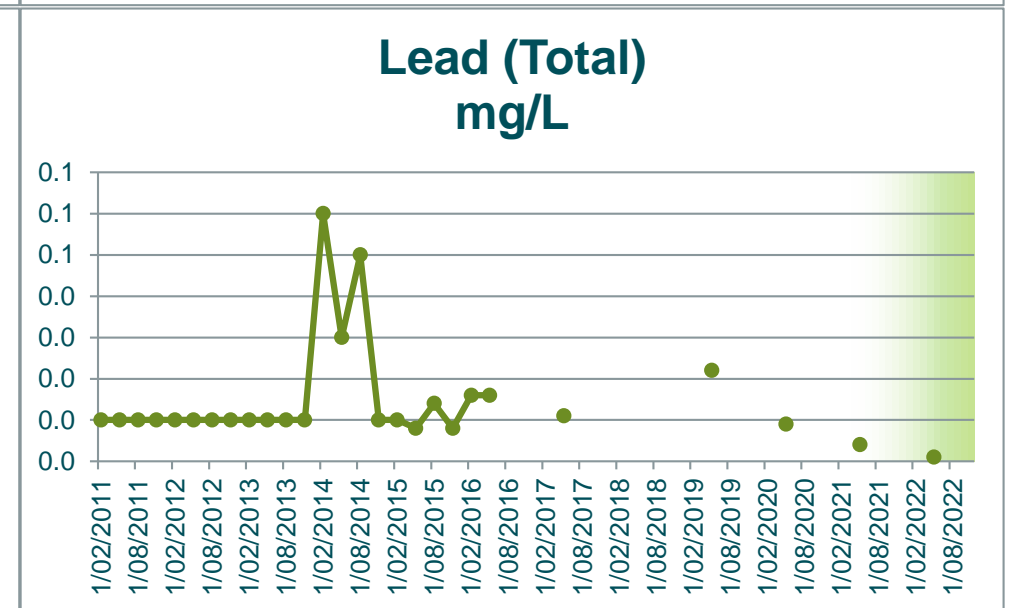
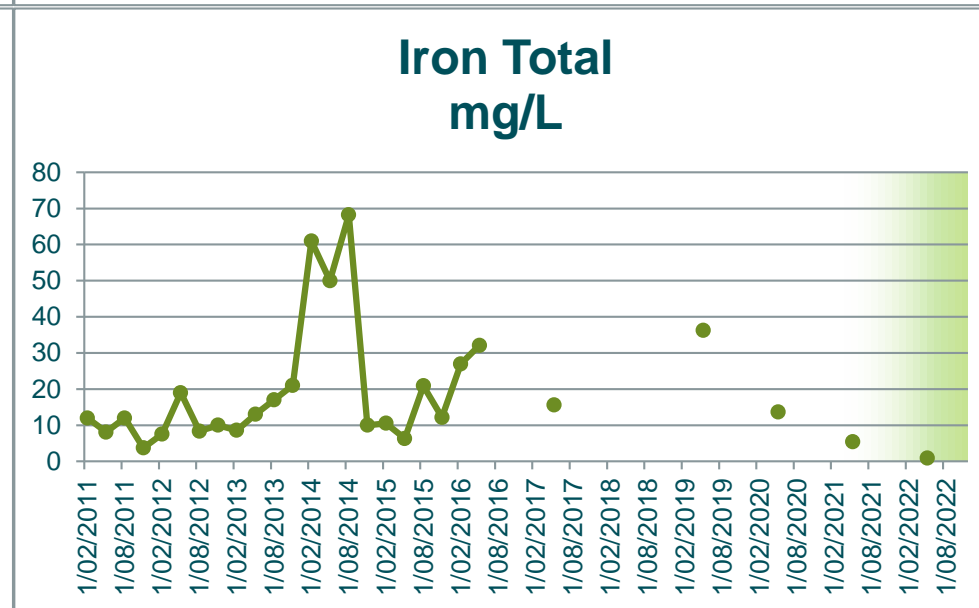
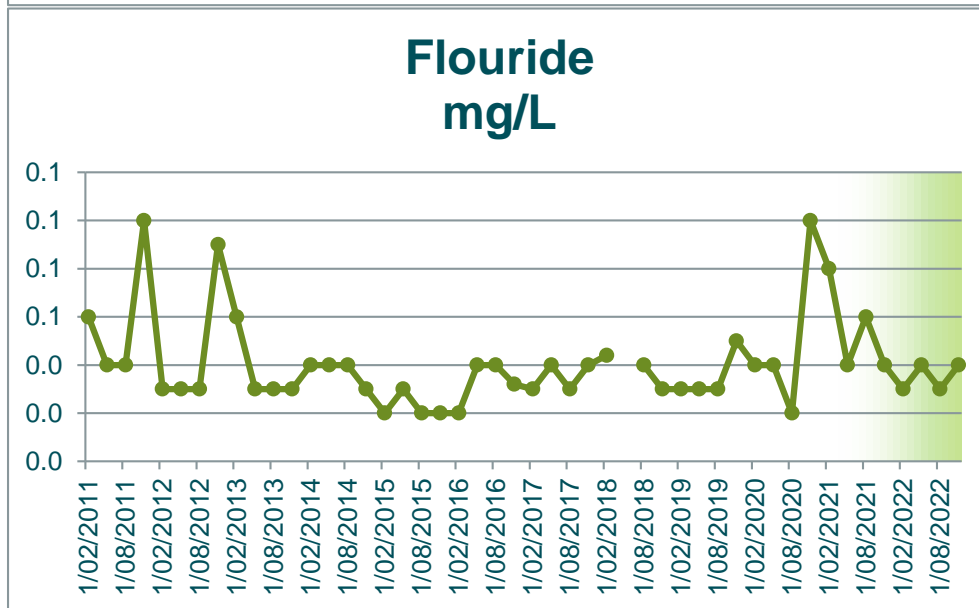
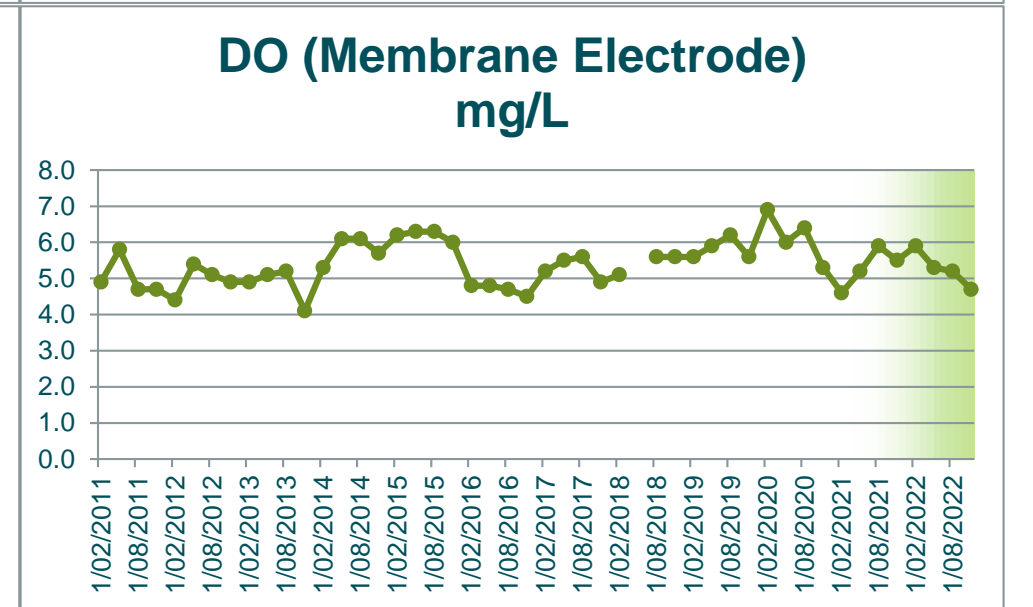
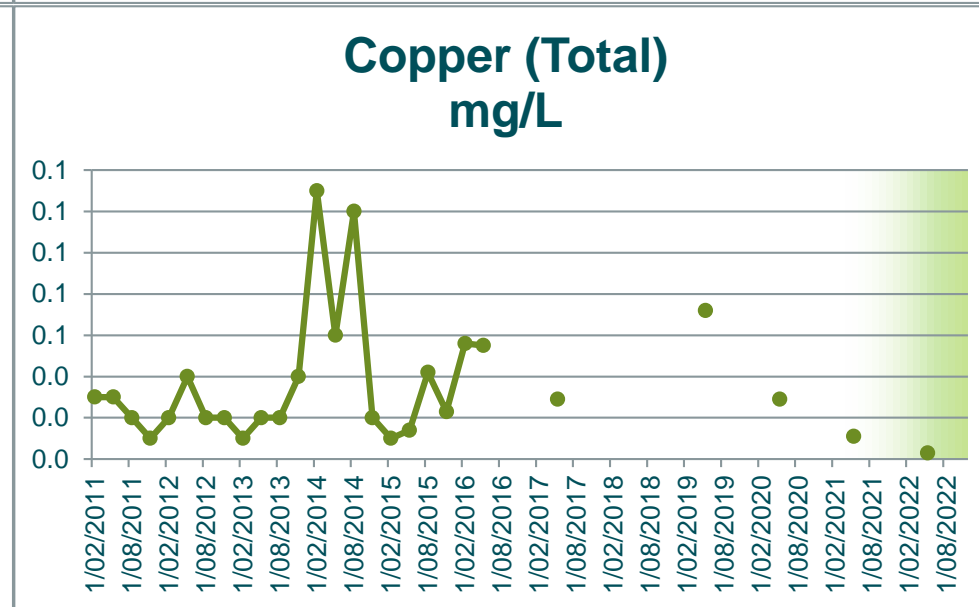
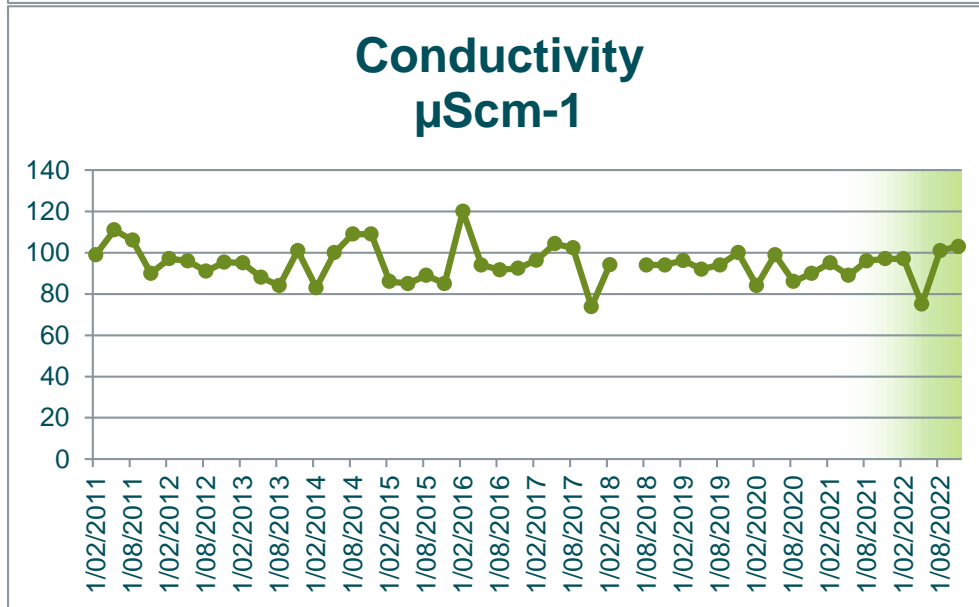
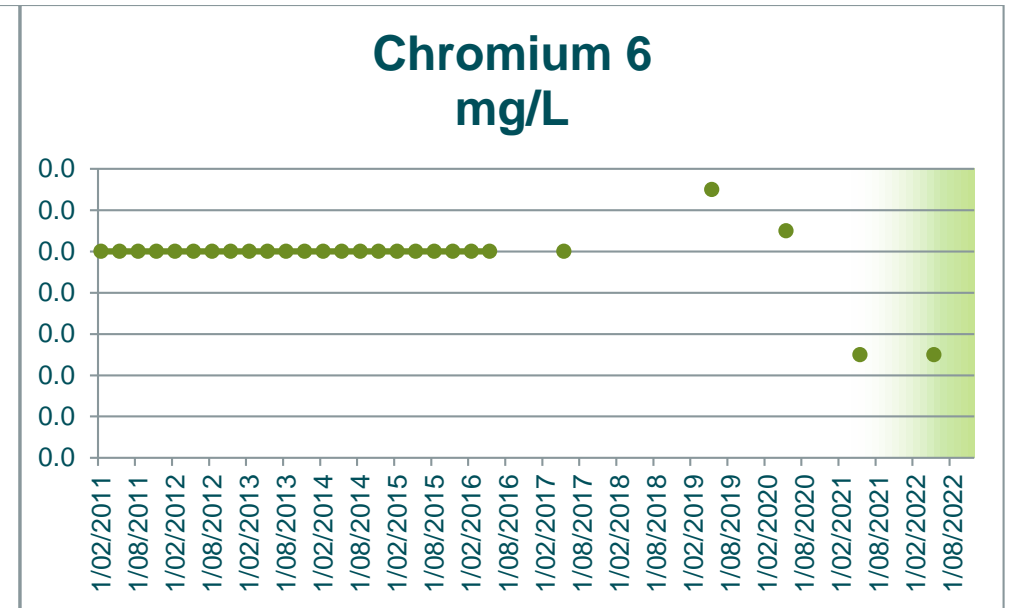
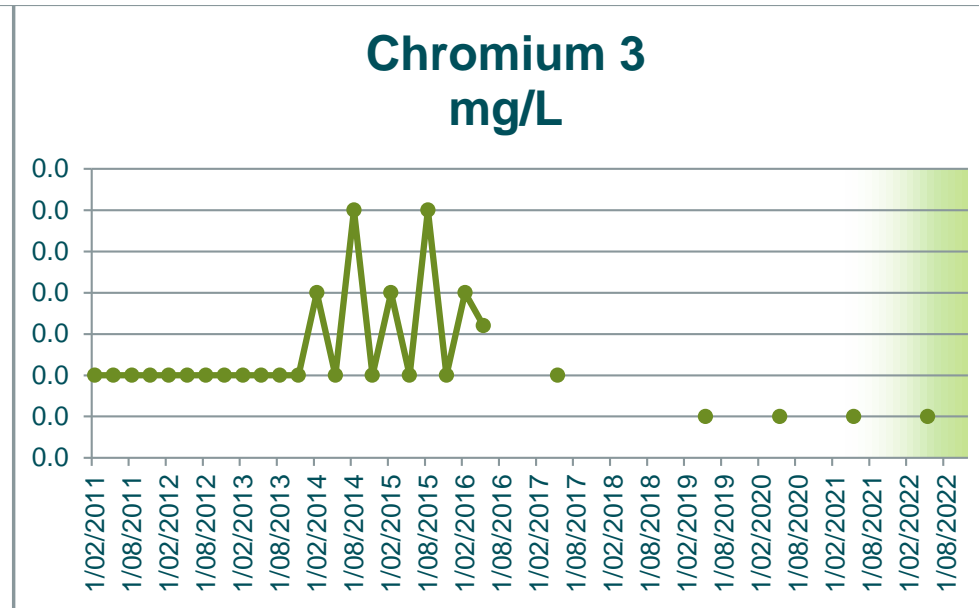
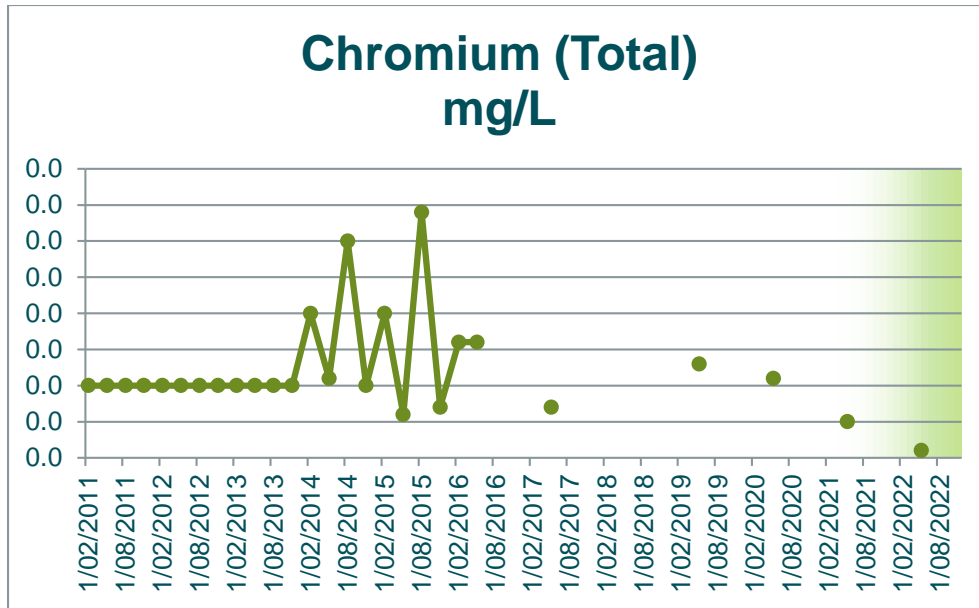


**Calcium (Total)
mg/L**

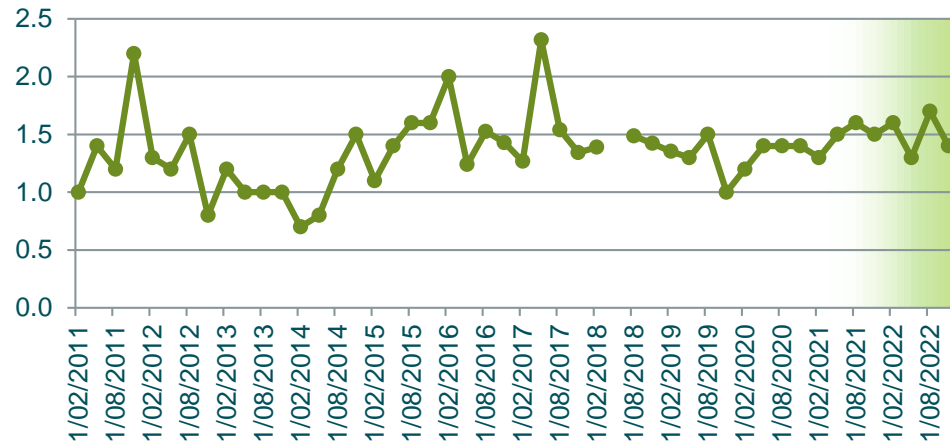


**Chloride
mg/L**

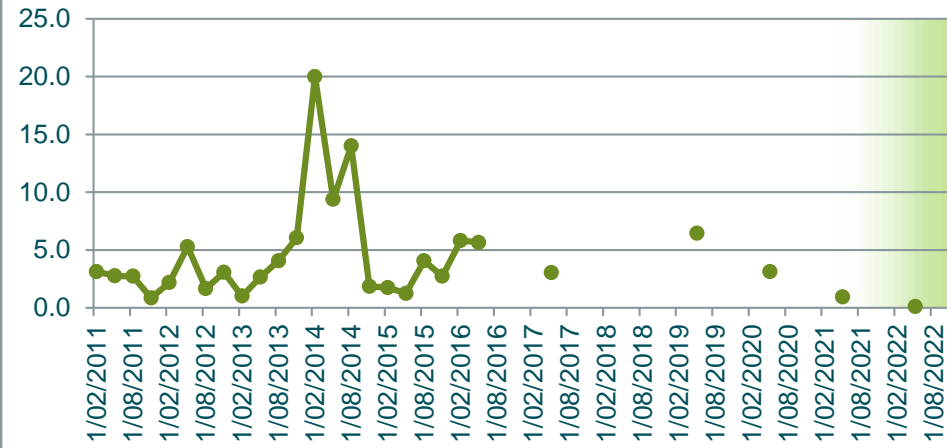




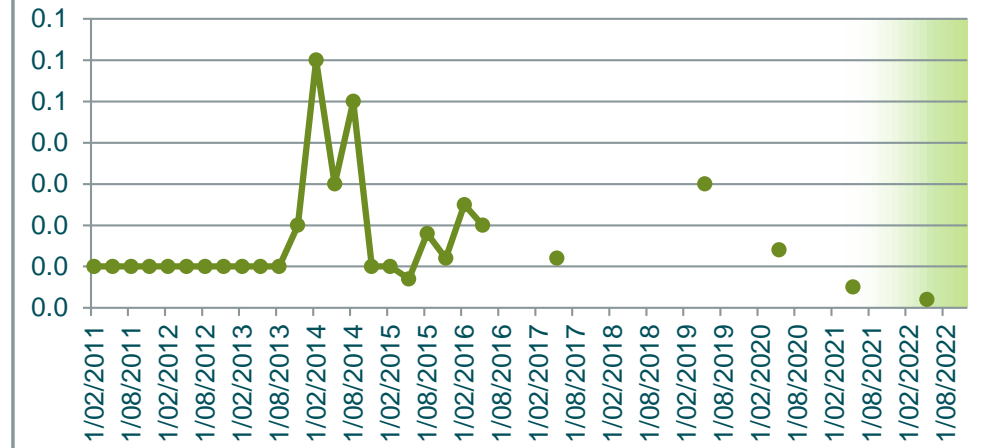
**Magnesium (Total)
mg/L**



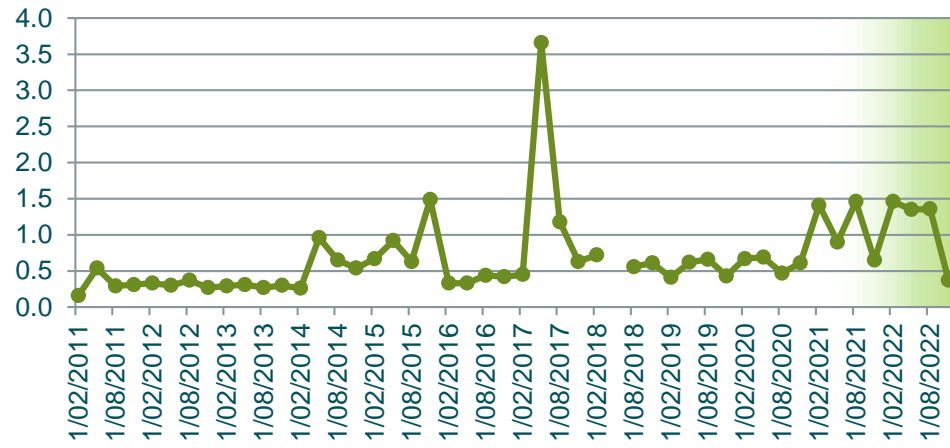
**Manganese Total
mg/L**



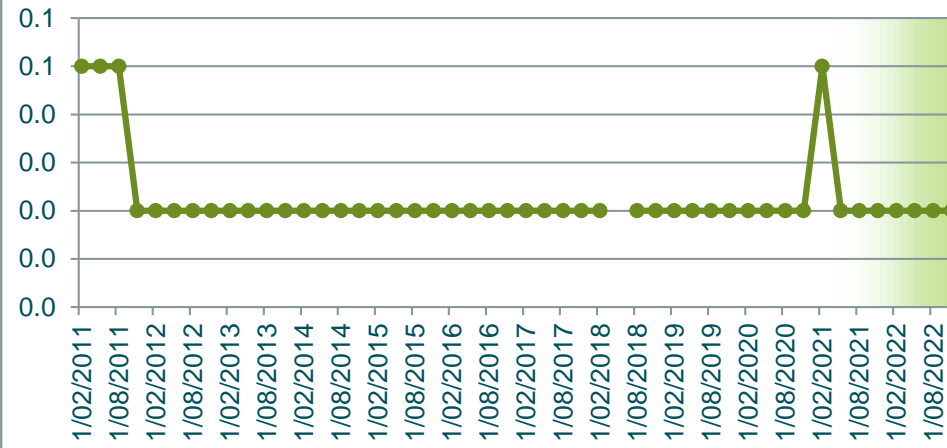
**Nickel (Total)
mg/L**



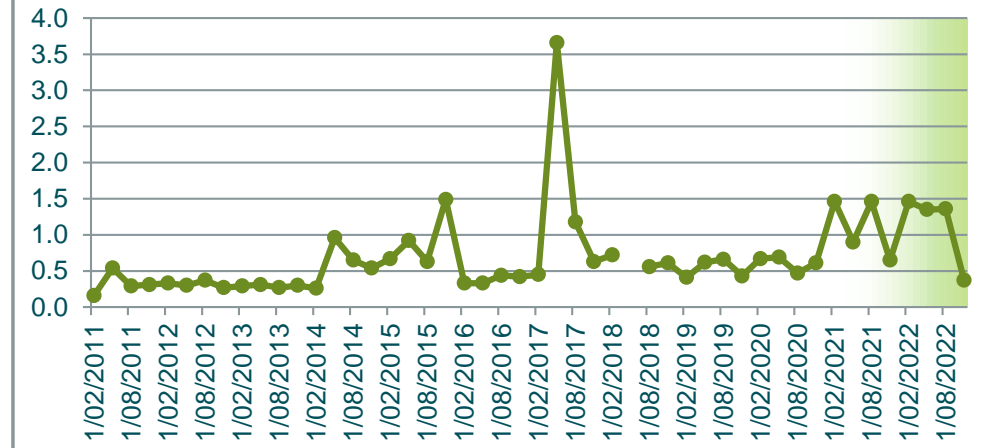
**Nitrate
N mg/L**



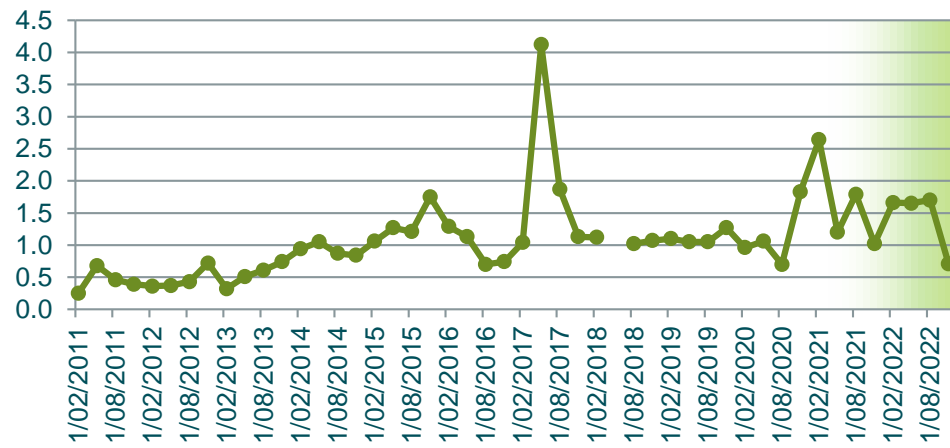
**Nitrite
N mg/L**



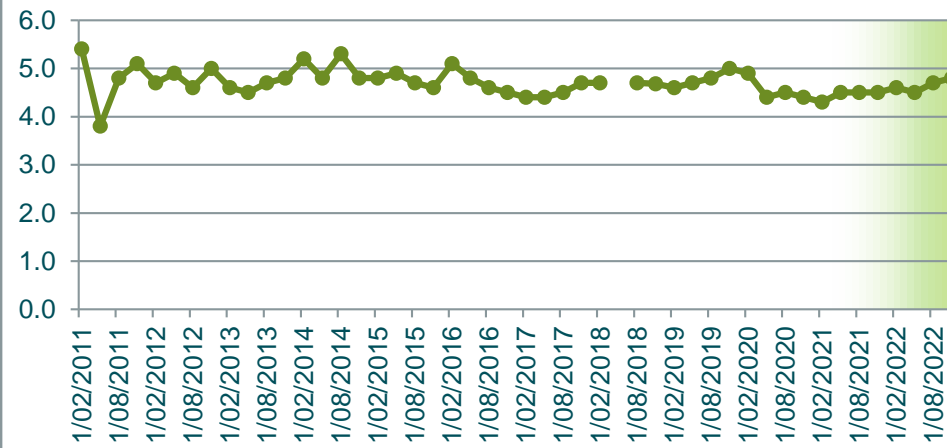
**Nitrogen Oxidised
mg/L**



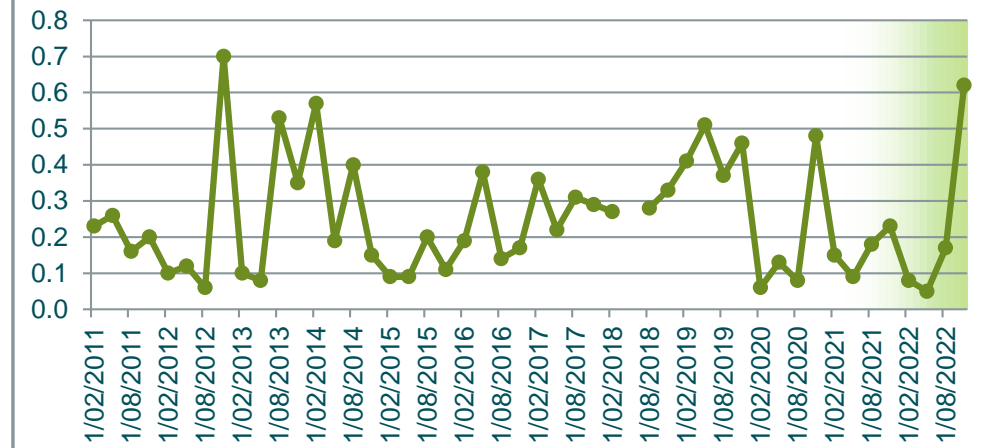
**Nitrogen Total
mg/L**



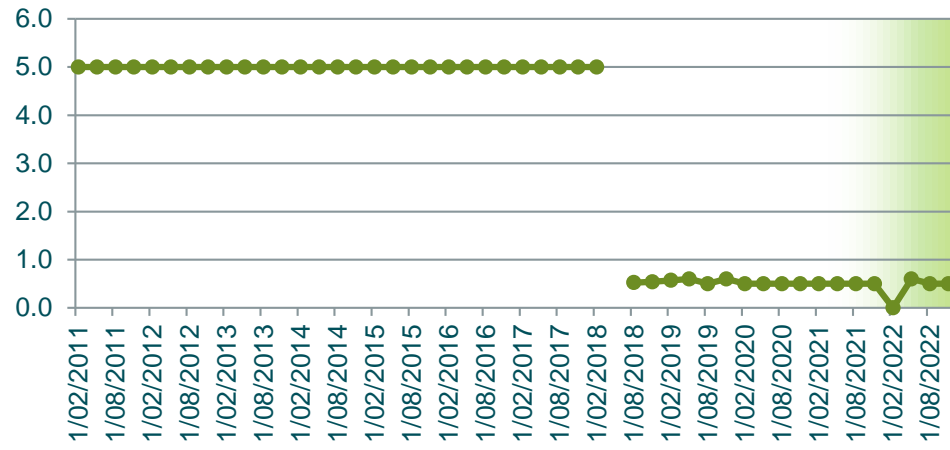
**pH
pH units**



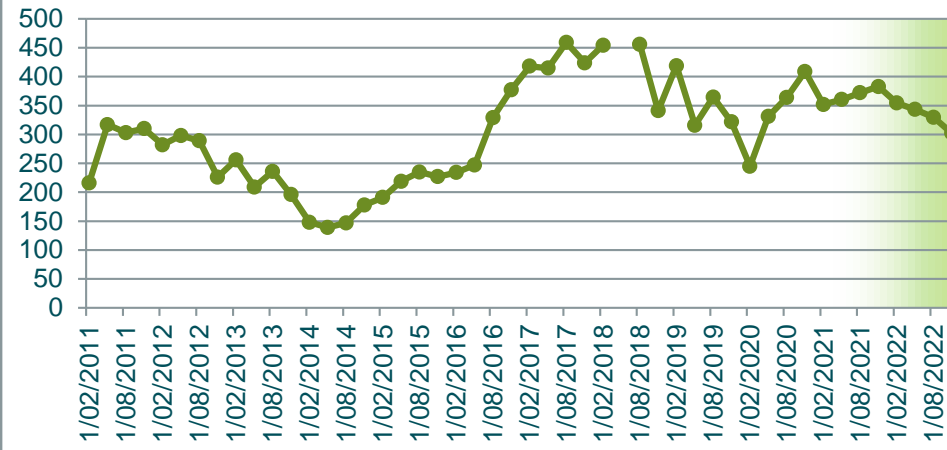
**Phosphorus Total
mg/L**



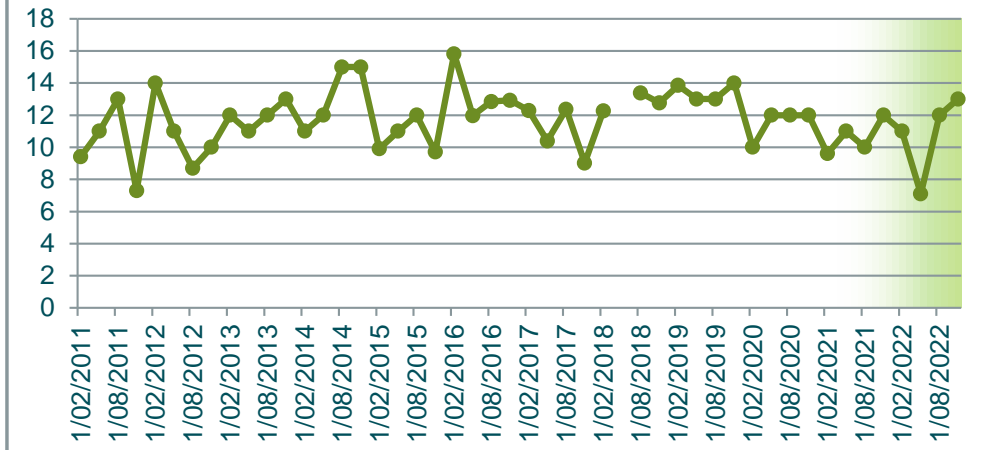
Potassium Total
mg/L



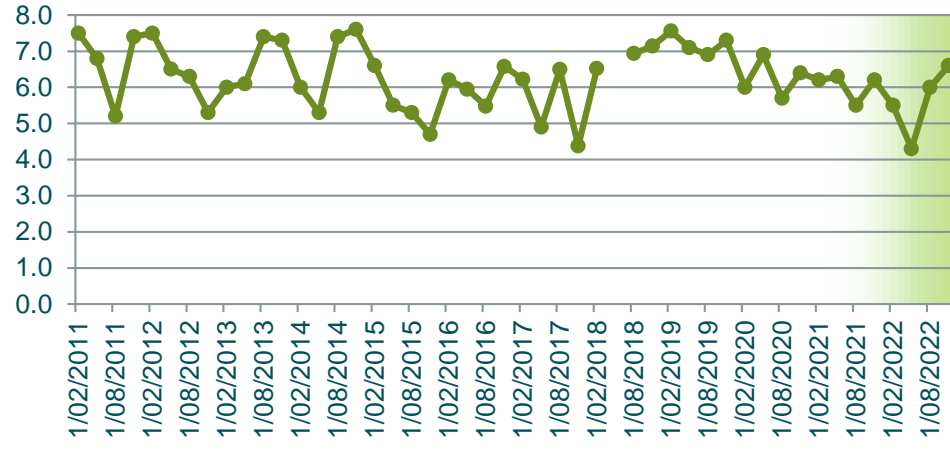
Redox Potential
mV



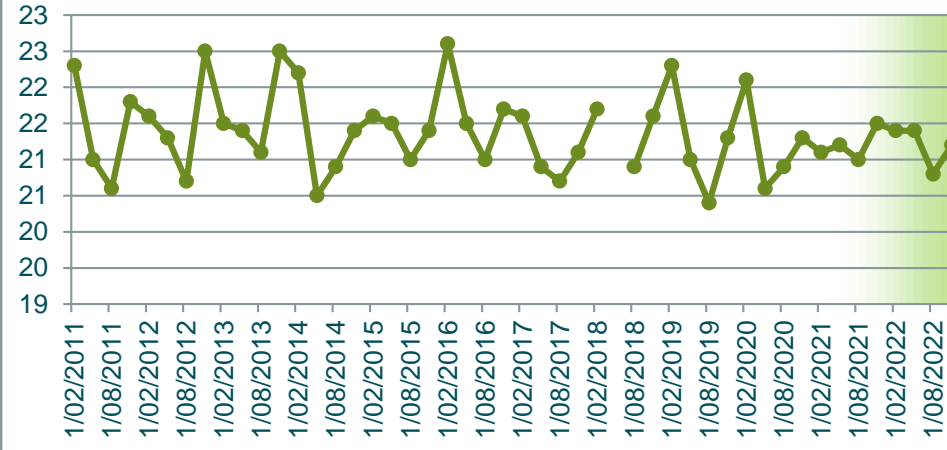
Sodium (Total)
mg/L



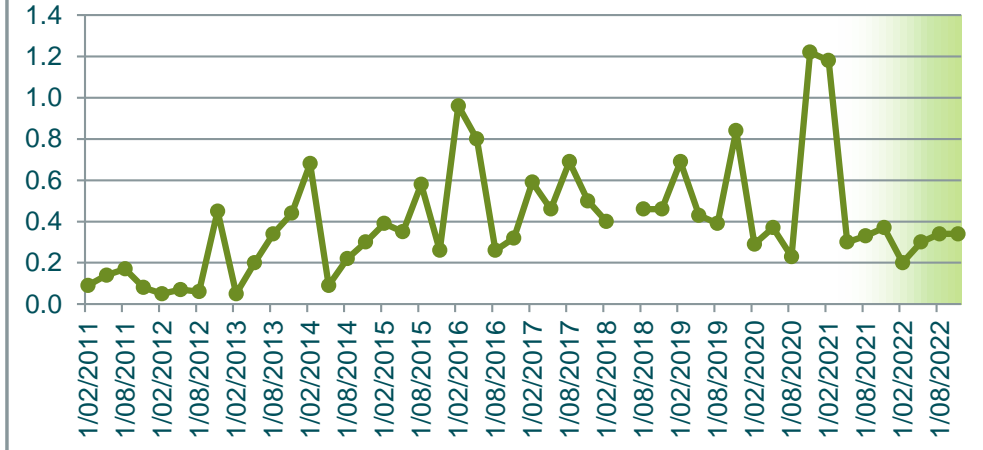
Sulphate
mg/L



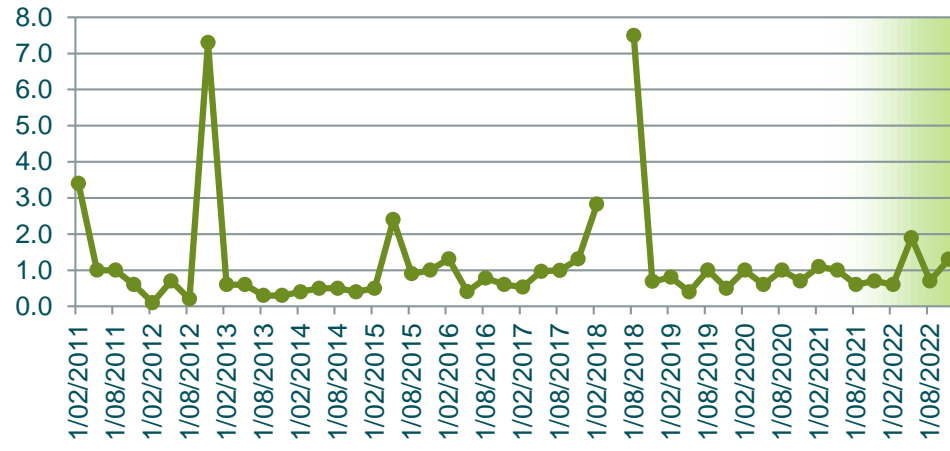
Temperature
C



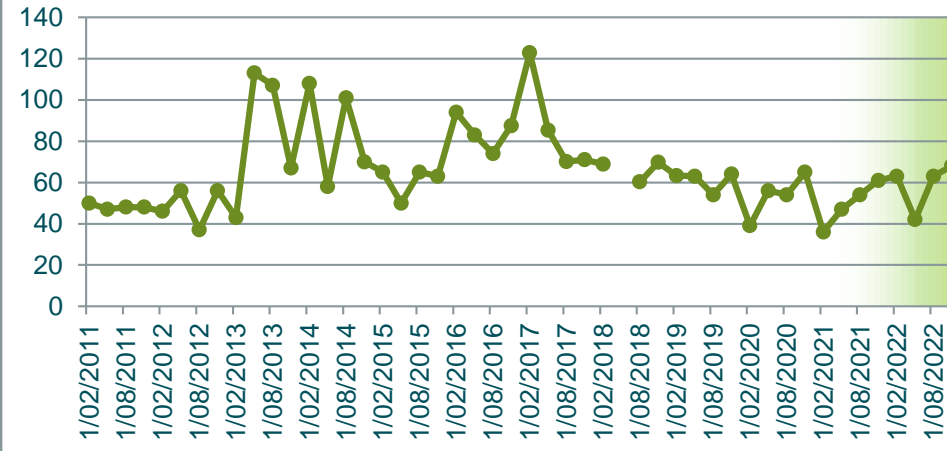
TKN
mg/L



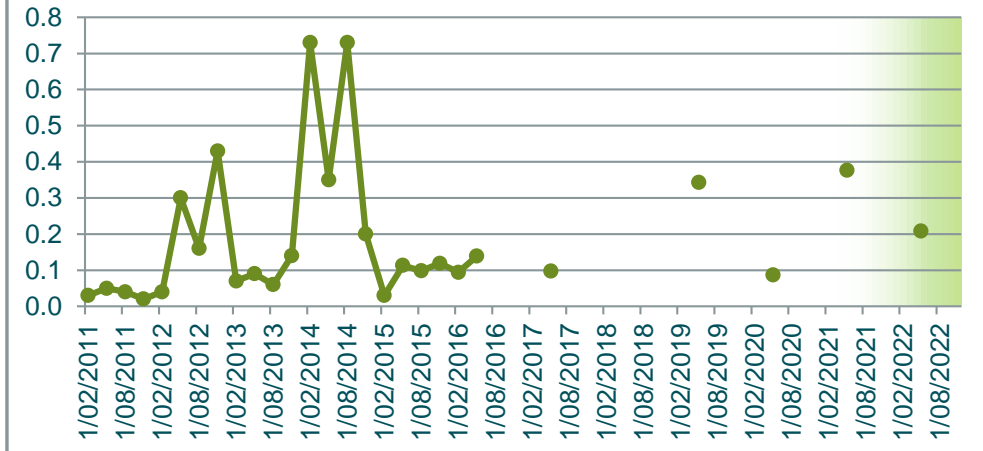
TOC
mg/L



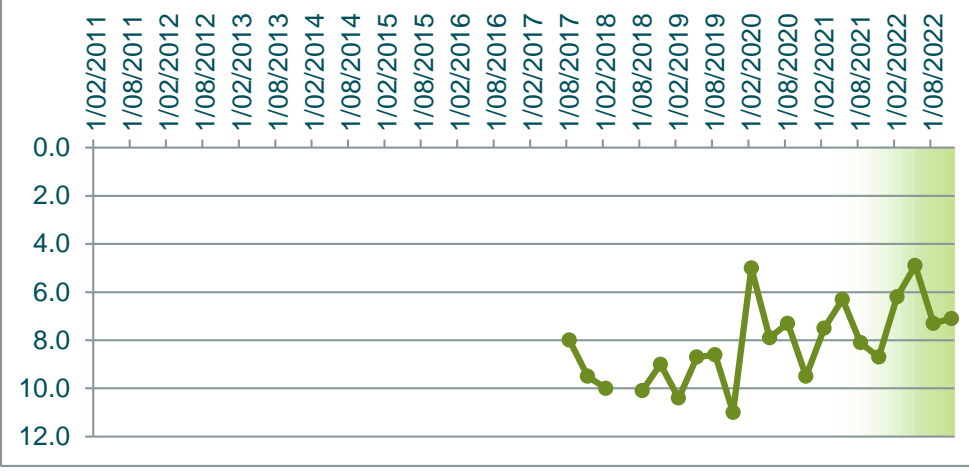
Total Acidity
mg/L CaCO3



Zinc (Total)
mg/L



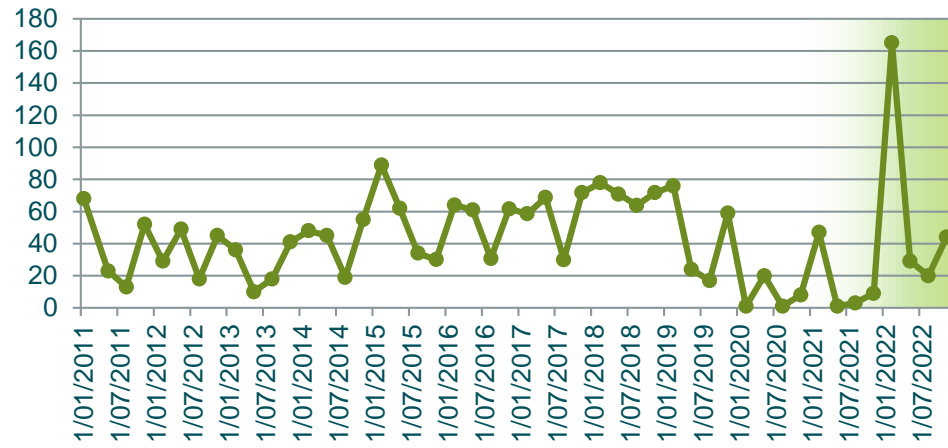
Depth to Groundwater m



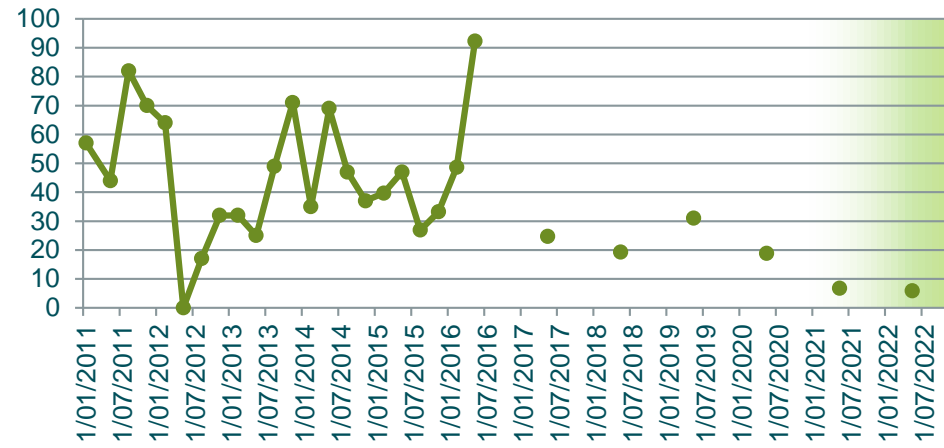
Depth to Groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH pH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity uS/cm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	BOD5 mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW6
31/01/2011	68	57	0.4	0.0	41	14	0.0	19	500	0.1	0.1	0.0	546	0.1	1.0	0.1	96	0.0	20	1.9	0.1	0.1	0.1	0.1	1.3	6.0	0.3	5.0	-10	29	127	23	1.3	7	120	0.7		
10/05/2011	23	44	0.2	0.0	14	4	0.0	17	44	0.1	0.1	0.0	399	0.1	1.1	0.1	70	0.0	10	1.0	0.0	0.1	0.1	0.1	1.6	5.1	0.4	5.0	203	20	84	21	1.6	2.8	66	0.6		
9/08/2011	13	82	0.3	0.1	8	10	0.0	20	88	0.1	0.1	0.0	567	0.1	1.5	0.1	174	0.0	22	2.4	0.1	0.1	0.1	0.1	1.6	5.4	0.5	5.0	254	33	159	18	1.5	4.7	178	0.7		
8/11/2011	52	70	0.3	0.0	32	8	0.0	20	140	0.1	0.1	0.0	530	0.1	1.3	0.2	157	0.0	27	1.8	0.1	0.1	0.0	0.1	1.1	6.0	0.5	17.0	36	26	103	21	1.0	2.3	110	0.5		
6/02/2012	29	64	0.8	0.0	18	35	0.0	30	86	0.1	0.1	0.0	532	0.1	1.1	0.1	94	0.1	18	1.6	0.1	0.1	0.0	0.1	2.2	5.4	0.3	5.0	161	38	126	23	2.2	6.8	120	1.3		
8/05/2012	49	0	0.8	0.0	30	14	0.0	20	70	0.0	0.0	0.0	559	0.0	3.0	0.2	0	0.0	25	2.5	0.0	0.2	0.0	0.2	1.6	5.9	0.4	8.0	74	39	110	22	1.3	3.6	80	0.0		
6/08/2012	18	17	0.5	0.0	11	7	0.0	17	84	0.0	0.0	0.0	578	0.0	2.0	0.1	52	0.0	19	1.1	0.0	0.1	0.0	0.1	1.4	5.2	0.4	5.0	102	29	85	18	1.4	3.8	35	0.3		
13/11/2012	45	32	0.5	0.0	27	8	0.0	20	290	0.0	0.0	0.0	630	0.0	1.3	0.7	92	0.0	22	1.4	0.0	0.1	0.0	0.1	1.4	6.0	0.5	5.0	39	44	88	21	1.4	3.7	130	0.6		
13/02/2013	36	32	0.5	0.0	22	6	0.0	18	92	0.0	0.0	0.0	586	0.0	1.5	0.2	67	0.0	20	1.2	0.0	0.1	0.0	0.1	1.4	5.8	0.1	5.0	-21	45	77	23	1.4	2.5	94	0.4		
14/05/2013	10	25	0.3	0.0	6	4	0.0	21	91	0.0	0.0	0.0	521	0.0	2.4	0.1	34	0.0	17	0.9	0.0	0.1	0.0	0.1	1.4	5.7	0.4	5.0	45	44	72	21	1.3	2.6	215	0.3		
6/08/2013	18	49	0.1	0.0	11	3	0.0	18	91	0.0	0.0	0.0	573	0.0	2.0	0.1	235	0.0	20	1.4	0.0	0.1	0.0	0.1	1.1	5.6	0.4	5.0	106	45	84	19	1.0	2.2	143	0.4		
12/11/2013	41	71	0.3	0.0	25	5	0.0	17	102	0.1	0.1	0.0	565	0.0	4.6	0.2	84	0.0	21	1.4	0.0	0.2	0.0	0.2	1.3	5.8	0.8	5.0	-2	49	64	21	1.1	1.5	59	0.3		
11/02/2014	48	35	0.3	0.0	29	3	0.0	16	101	0.0	0.0	0.0	548	0.0	2.6	0.2	49	0.0	21	1.1	0.0	0.1	0.0	0.1	1.0	6.1	0.2	5.0	-10	46	52	22	0.9	1.6	213	0.2		
13/05/2014	45	69	0.3	0.0	27	3	0.0	15	107	0.0	0.0	0.0	567	0.0	3.0	0.2	84	0.0	19	1.0	0.0	0.1	0.0	0.1	0.9	6.0	0.3	5.0	35	49	44	22	0.8	1.5	74	0.2		
12/08/2014	19	47	0.1	0.0	12	1	0.0	16	106	0.0	0.0	0.0	522	0.0	3.2	0.1	129	0.0	20	1.3	0.0	0.1	0.0	0.1	1.2	5.9	0.5	5.0	77	48	58	19	1.1	0.8	150	0.3		
10/11/2014	55	37	0.3	0.0	34	6	0.0	15	115	0.0	0.0	0.0	544	0.0	3.2	0.2	59	0.0	20	1.0	0.0	0.2	0.0	0.2	1.4	6.2	0.4	5.0	10	49	41	21	1.2	1.5	190	0.2		
9/02/2015	89	40	3.1	0.0	54	15	0.0	19	120	0.0	0.0	0.0	643	0.0	2.0	0.2	64	0.0	22	1.2	0.0	0.0	0.0	0.1	6.6	6.3	0.7	7.0	-25	55	38	24	6.5	6.8	134	1.3		
11/05/2015	62	47	0.5	0.0	38	17	0.0	18	105	0.0	0.0	0.0	532	0.0	2.3	0.2	59	0.0	20	1.1	0.0	0.0	0.0	0.0	1.9	6.2	0.7	6.0	11	53	35	21	1.9	1.9	97	2.9		
11/08/2015	34	27	0.3	0.0	34	5	0.0	17	100	0.0	0.0	0.0	533	0.0	2.7	0.1	68	0.0	20	1.0	0.0	0.0	0.0	0.0	1.4	6.0	0.7	5.5	87	48	46	19	1.4	1.5	114	1.0		
10/11/2015	30	33	0.2	0.0	30	6	0.0	31	34	0.0	0.0	0.0	753	0.0	1.9	0.2	94	0.0	24	1.4	0.0	0.0	0.0	0.0	1.3	5.7	0.6	5.0	2	61	93	21	1.2	2.2	106	1.0		
8/02/2016	64	49	0.2	0.0	64	6	0.0	17	111	0.1	0.1	0.0	564	0.0	2.6	0.1	75	0.0	20	1.2	0.1	0.0	0.0	0.0	1.4	6.0	0.7	5.8	37	49	40	23	1.4	1.8	154	1.3		
9/05/2016	61	92	0.3	0.0	61	10	0.0	16	112	0.1	0.1	0.0	571	0.1	2.4	0.2	104	0.0	20	1.6	0.1	0.1	0.0	0.1	1.6	6.1	0.8	7.2	31	49	33	22	1.6	4.0	120	3.3		
9/08/2016	31		0.1		31	3		20	120				609		2.6	0.2			21			0.0	0.0	0.0	0.7	5.5	0.5	5.3	118	56	60	19	0.6	1.1	152			
7/11/2016	62		0.2		62	3		15	125				550		2.6	0.2			19			0.0	0.0	0.0	1.0	6.0	0.9	5.4	155	49	29	21	1.0	0.9	133			
7/02/2017	59		0.3		59	4		14	85				557		3.0	0.2			18			0.0	0.0	0.0	1.1	6.0	0.3	5.4	101	47	21	23	1.1	1.7	128			
8/05/2017	69	25	1.4	0.0	69	17	0.0	21	141	0.0	0.0	0.0	694	0.0	1.9	0.2	39	0.0	23	1.1	0.0	0.1	0.0	0.1	2.5	5.9	0.4	5.9	71	59	53	21	2.4	3.2	118	2.2		
8/08/2017	30		0.3		30	5		16	100				587		2.6	0.2			19			0.0	0.0	0.0	1.3	5.8	0.4	5.0	217	51	45	19	1.3	1.6	86		1.6	
7/11/2017	72		0.3		72	4		18	115				610		2.5	0.2			22			0.0	0.0	0.0	1.5	6.0	0.6	6.2	66	55	38	20	1.4	1.5	113		1.5	
13/02/2018	78		1.0		78	11		15	115				590		2.3	0.2			20			0.0	0.0	0.0	2.2	6.1	0.4	5.5	-59	50	26	24	2.2	4.1	110		1.4	
8/05/2018	71	19	0.6	0.0	71	11	0.0	16	122	0.0	0.0	0.0	573	0.0	2.3	0.2	30	0.0	19	0.9	0.0	0.2	0.0	0.2	2.0	6.0	0.7	5.7	38	48	34	22	1.8	3.2	92	0.7	1.4	

14/08/2018	64		0.7		64	20		16	115				557		2.4	0.2			19			0.1	0.0	0.1	2.9	6.0		0.7	5.6	100	53	27	19	2.8	26.0	100		1.7
13/11/2018	72		0.6		72	13		15	117				554		2.3	0.2			19			0.0	0.0	0.1	2.1	6.2		0.7	5.4	3	49	24	20	2.1	3.3	91		1.6
12/02/2019	76		0.5		76	9		15	118				569		2.3	0.2			19			0.0	0.0	0.0	1.7	6.2		0.3	5.8	16	52	18	23	1.7	4.2	84		2.2
14/05/2019	24	31	0.8	0.0	24	8	0.0	36	180	0.0	0.0	0.0	930	0.0	2.2	0.2	40	0.0	32	1.7	0.1	0.1	0.0	0.1	1.9	5.5		0.5	5.9	90	96	166	21	1.9	6.2	54	1.9	1.5
13/08/2019	17		0.5		17	8		27	130				734		2.8	0.2			26			0.0	0.0	0.0	1.9	5.0		0.6	5.4	386	72	139	18	1.9	7.2	58		1.5
12/11/2019	59		1.0		59	35		22	130				738		2.2	0.2			26			0.0	0.0	0.0	2.3	5.9		0.5	5.6	9	59	105	20	2.3	6.8	110		2.0
25/02/2020	1		0.4			10		30	93				690		3.2	0.2			18			1.7	0.0	1.7	3.6	4.4		0.4	3.7	283	63	164	24	1.9	5.5	86		1.2
12/05/2020	20	19	0.2	0.0	20	4	0.0	19	140	0.0	0.0	0.0	612	0.0	3.1	0.2	42	0.0	20	1.1	0.0	0.1	0.0	0.1	1.3	5.6		0.2	4.8	112	51	85	21	1.2	2.6	71	0.4	1.8
11/08/2020	1		0.0			2		26	92				657		3.5	0.2			22			3.0	0.0	3.0	3.9	4.4		0.3	3.8	324	60	141	18	0.9	3.0	64		1.4
10/11/2020	8		0.3		8	2		19	98				581		3.4	0.1			19			0.6	0.0	0.6	2.0	5.0		0.5	4.5	204	50	109	20	1.4	3.5	69		1.7
9/02/2021	47		0.6		47	3		16	78				544		3.2	0.2			16			1.1	0.0	1.1	2.9	6.1	0.0	0.2	3.9	64	45	90	22	1.8	5.1	96		1.5
11/05/2021	1	7	0.0	0.0		2	0.0	20	82	0.0	0.0	0.0	533	0.0	2.8	0.1	16	0.0	18	1.0	0.0	0.3	0.0	0.3	1.0	4.6	0.0	0.2	3.7	309	49	106	21	0.7	3.4	75	0.3	1.4
10/08/2021	3		0.0		3	2		18	92				523		3.1	0.2			17			0.1	0.0	0.1	1.2	4.8	0.0	0.4	3.9	235	45	81	18	1.1	3.0	60		1.7
8/11/2021	9		0.1		9	5		17	94				513		2.9	0.2			17			0.4	0.0	0.4	1.3	5.1	0.0	0.2	4.2	187	45	81	20	0.9	3.5	82		1.6
8/02/2022	165		8.7		165	106		14	81				610		1.7	0.2			15			0.0	0.1	0.1	10.8	6.2	0.0	1.1	5.6	-68	39	8	21	10.7	33.0	200		1.3
10/05/2022	29	6	0.9	0.0	29	7	0.0	17	87	0.0	0.0	0.0	538	0.0	3.0	0.1	26	0.0	15	0.8	0.0	0.1	0.0	0.1	2.1	5.5	0.0	0.2	3.1	65	42	89	21	2.0	3.4	130	0.4	1.2
9/08/2022	20		0.6		20	3		15	100				536		2.9	0.1			17			0.0	0.0	0.0	2.1	5.6	0.0	0.8	4.1	110	45	68	18	2.1	3.0	110		1.8
8/11/2022	44		0.6		44	3		14	84				560		2.7	0.2			17			0.1	0.0	0.1	1.6	5.8	0.0	1.3	4.4	64	44	49	19	1.6	3.3	120		1.6
2022 Min	20	6	0.6	0.0	20	3	0.0	14	81	0.0	0.0	0.0	536	0.0	1.7	0.1	26	0.0	15	0.8	0.0	0.0	0.0	1.6	5.5	0.0	0.2	3.1	-68	39	8	18	1.6	3.0	110	0.4	1.2	
2022 Max	165	6	8.7	0.0	165	106	0.0	17	100	0.0	0.0	0.0	610	0.0	3.0	0.2	26	0.0	17	0.8	0.0	0.1	0.1	0.1	10.8	6.2	0.0	1.3	5.6	110	45	89	21	10.7	33.0	200	0.4	1.8
2022 Mean	65	6	2.7	0.0	65	30	0.0	15	88	0.0	0.0	0.0	561	0.0	2.6	0.2	26	0.0	16	0.8	0.0	0.0	0.0	4.2	5.8	0.0	0.8	4.3	43	43	53	20	4.1	10.7	140	0.4	1.5	
Long-term Average	42	40	0.7	0.0	39	10	0.0	19	115	0.0	0.0	0.0	586	0.0	2.5	0.2	76	0.0	20	1.3	0.0	0.2	0.0	0.2	2.0	5.7	0.0	0.5	5.4	93	48	73	21	1.8	4.4	110	0.8	1.6

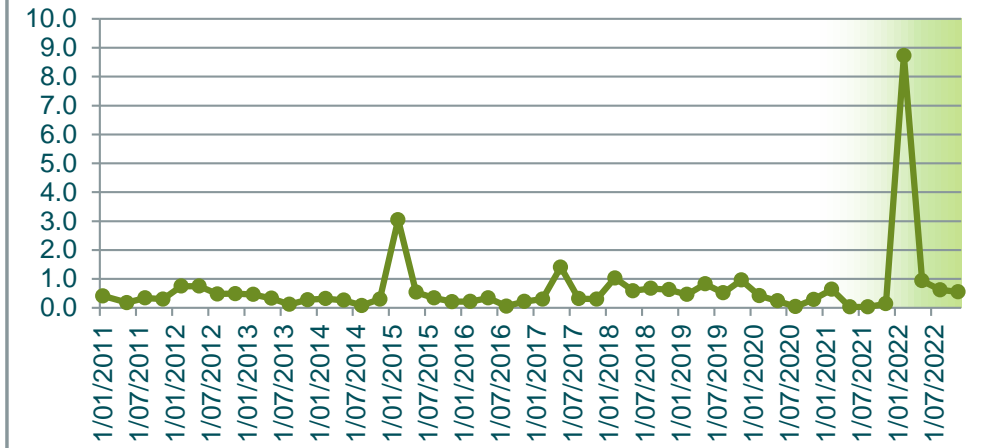
**Alkalinity
mg/L as CaCO3**



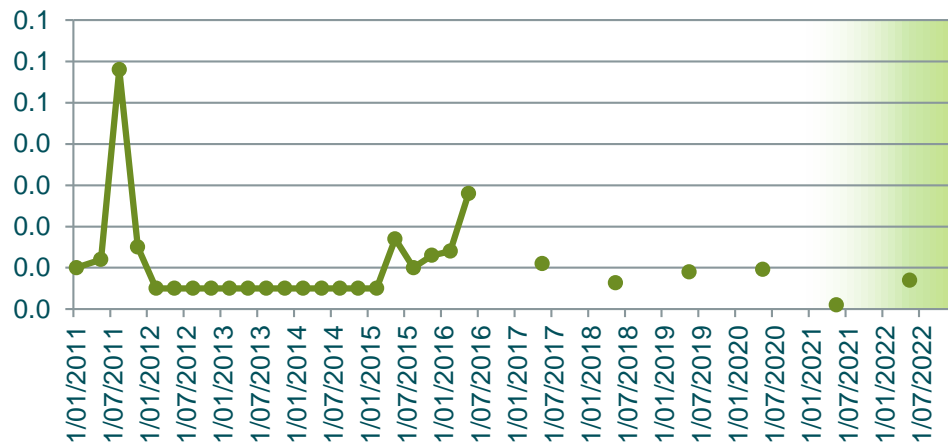
**Aluminium (Total)
mg/L**



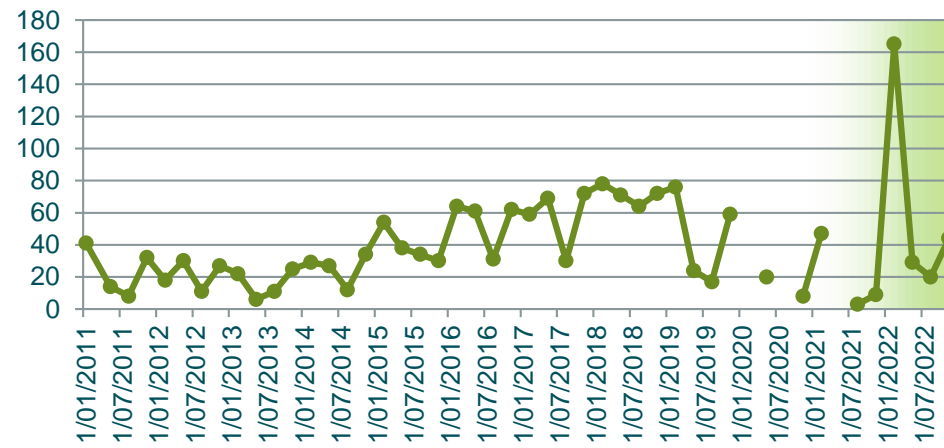
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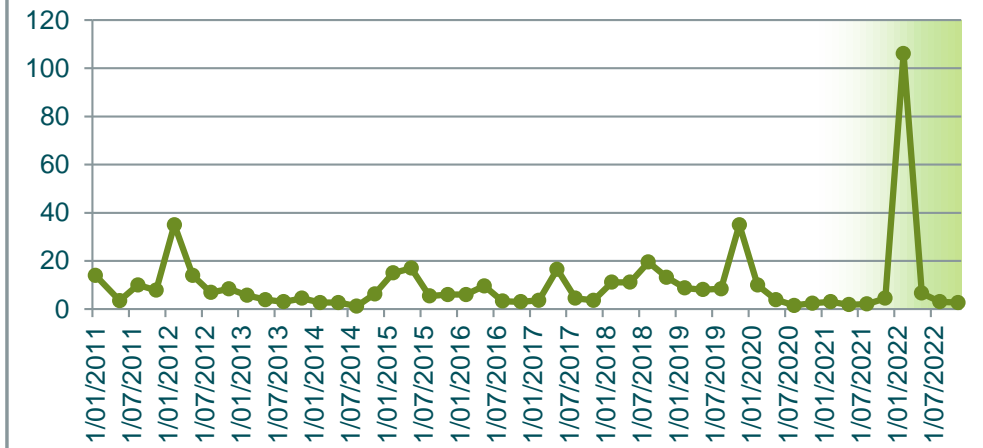
**Arsenic (Total)
mg/L**



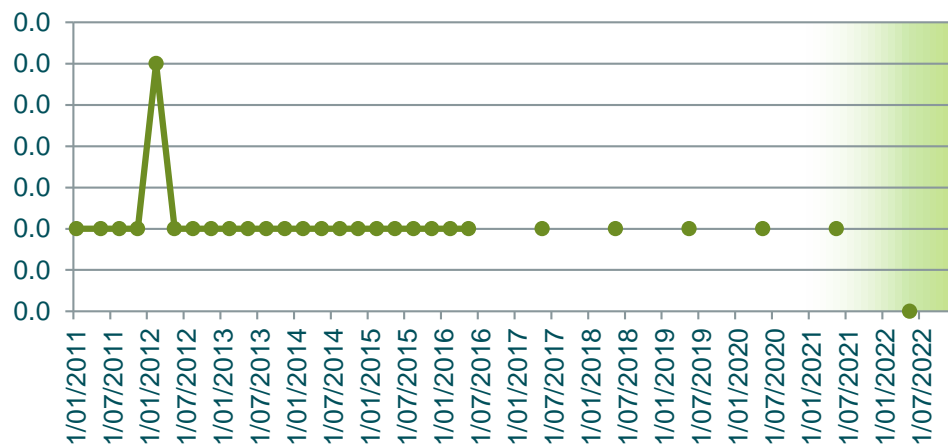
**Bicarbonate HCO3
mg/L**



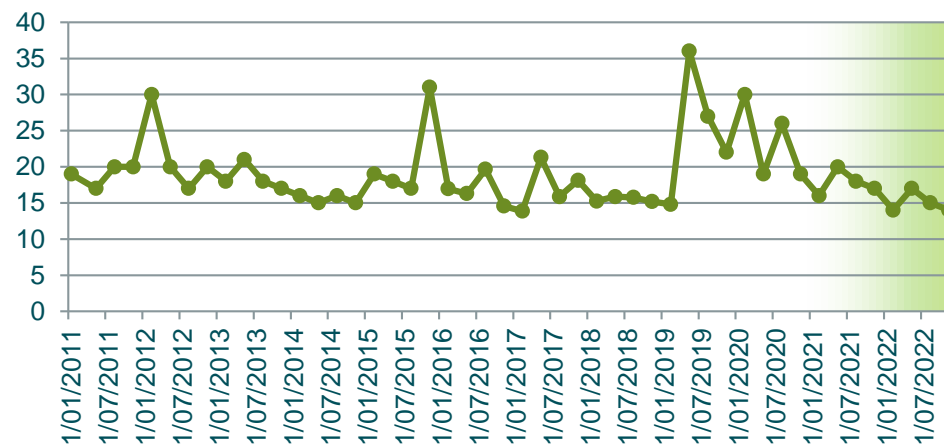
**BOD5
mg/L**



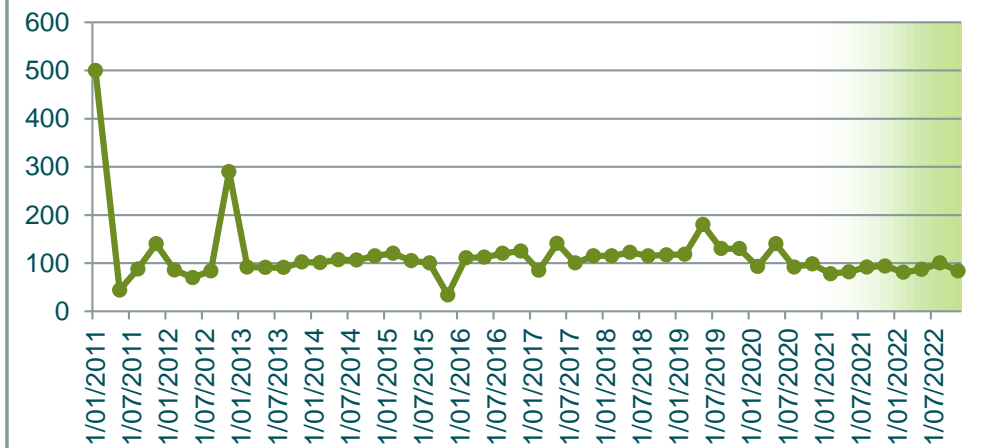
**Cadmium (Total)
mg/L**



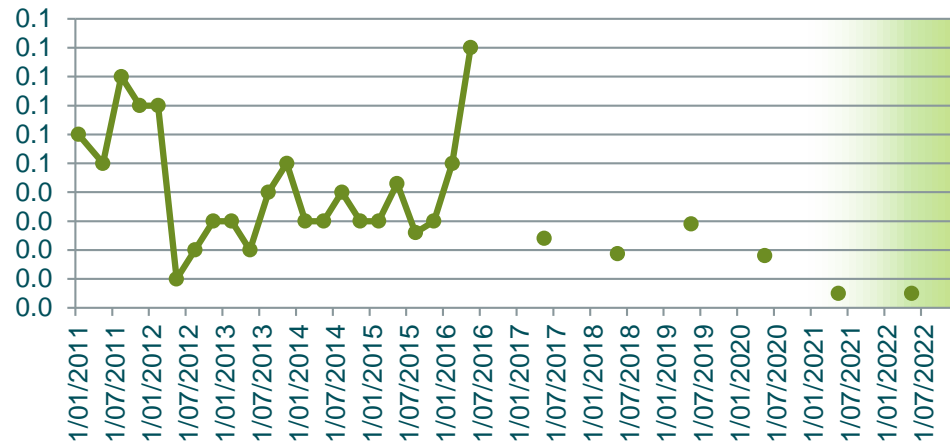
**Calcium (Total)
mg/L**



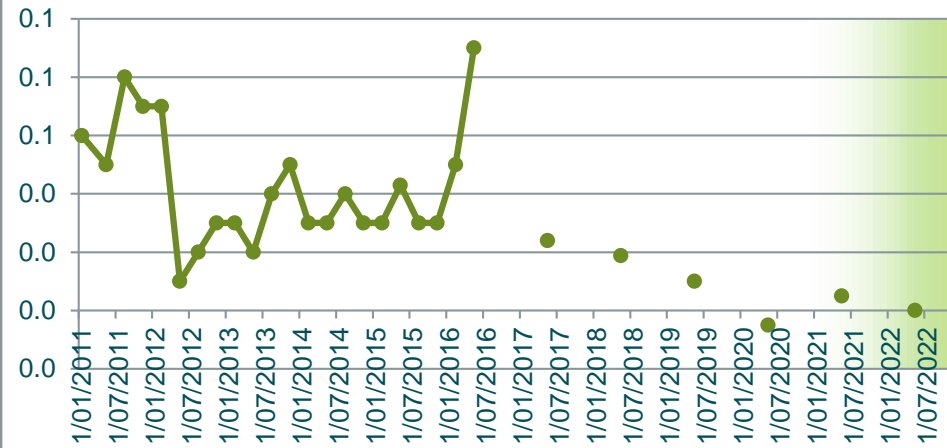
**Chloride
mg/L**



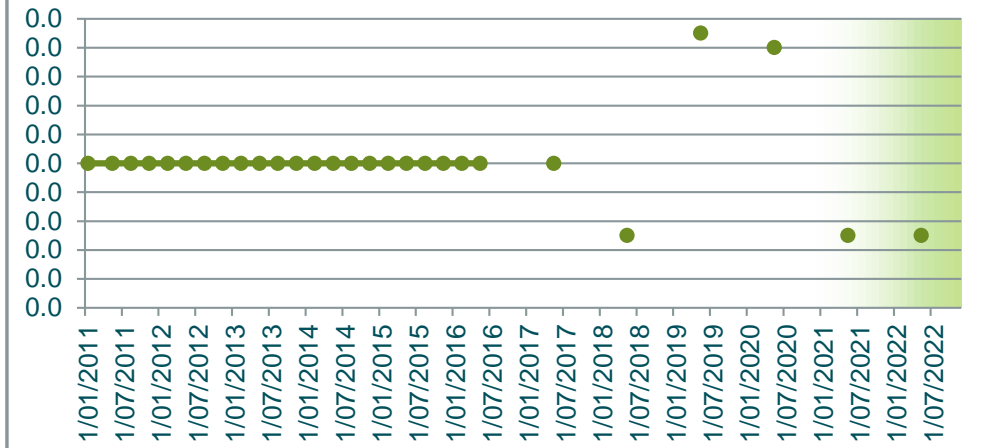
Chromium (Total) mg/L



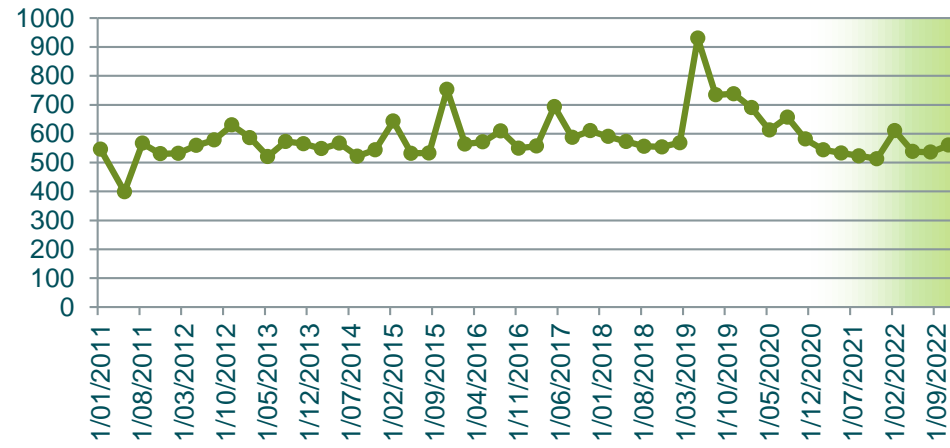
Chromium 3 mg/L



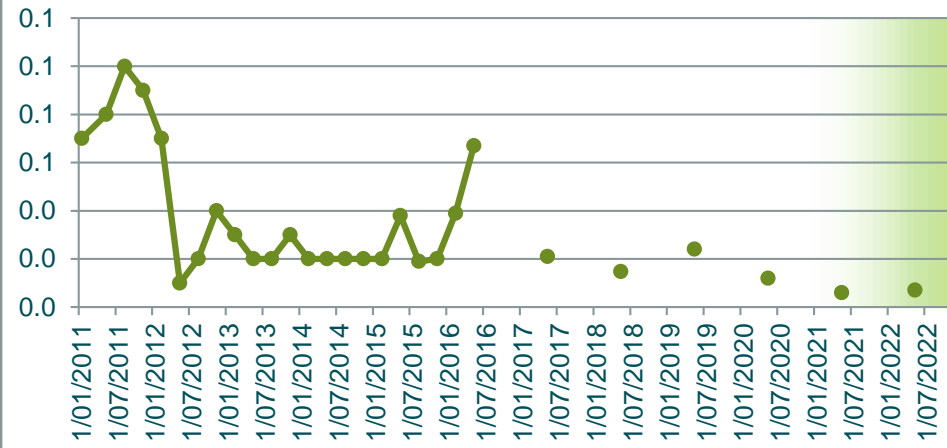
Chromium 6 mg/L



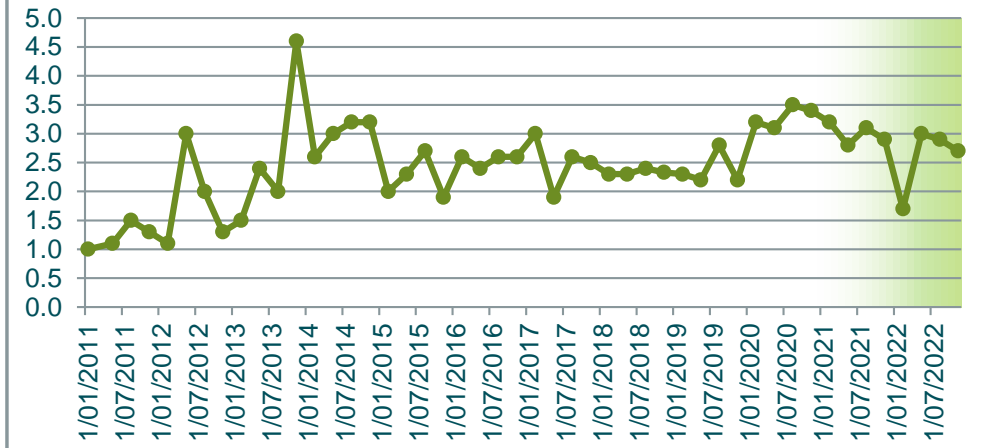
Conductivity µScm-1



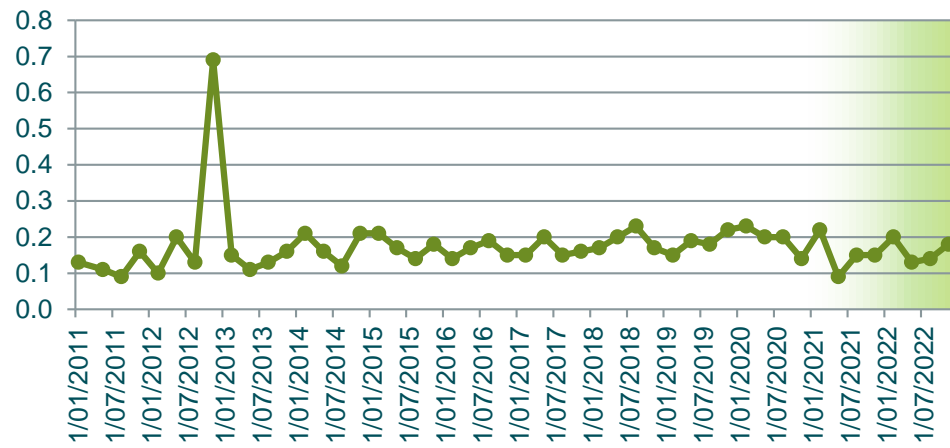
Copper (Total) mg/L



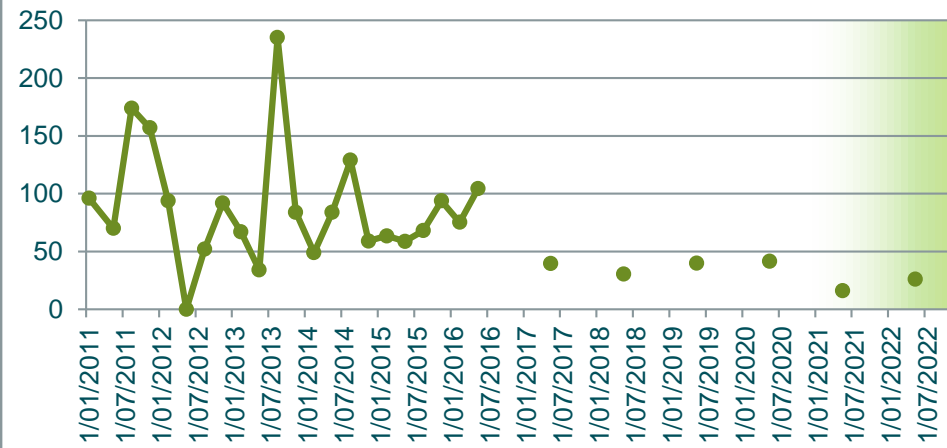
DO (Membrane Electrode) mg/L



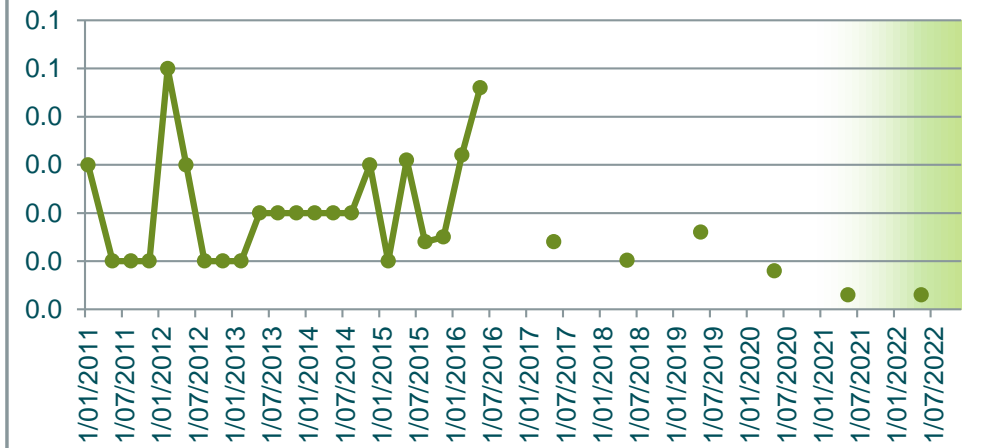
Flouride mg/L



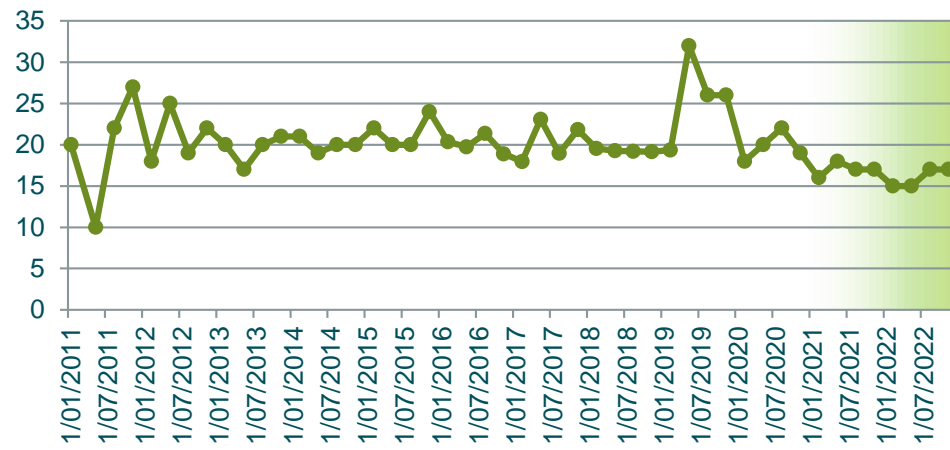
Iron Total mg/L



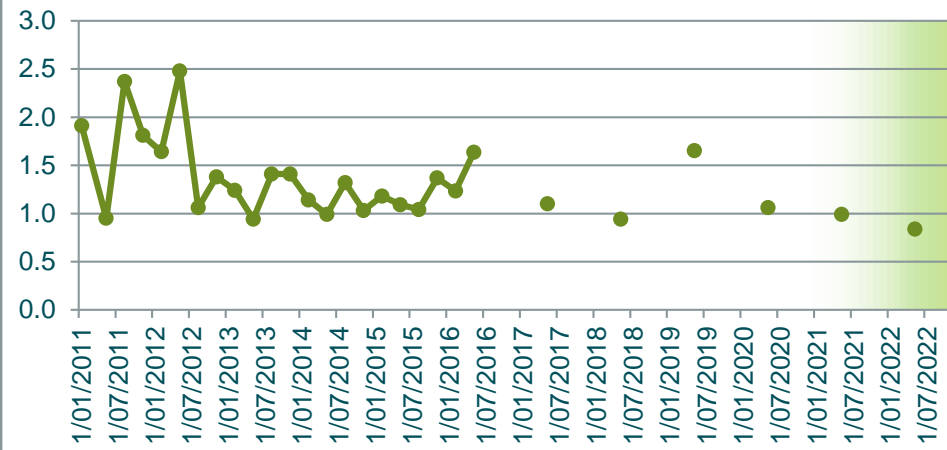
Lead (Total) mg/L



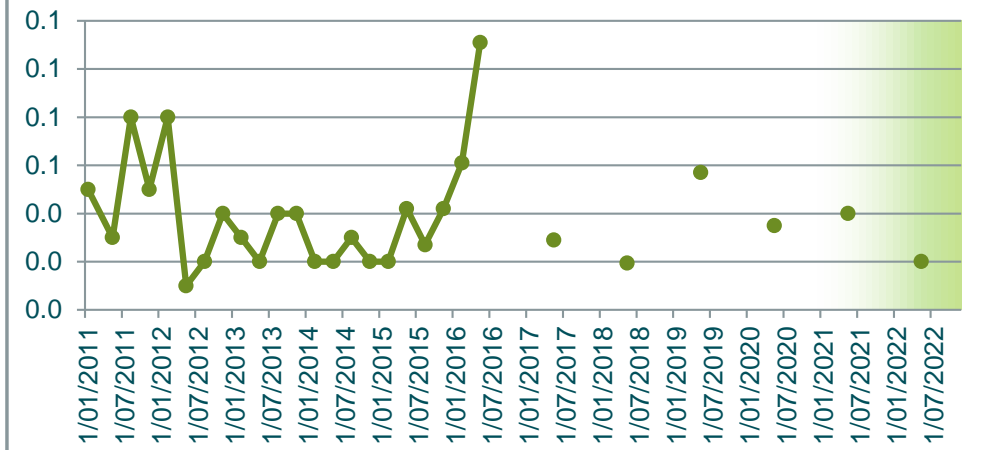
Magnesium (Total) mg/L



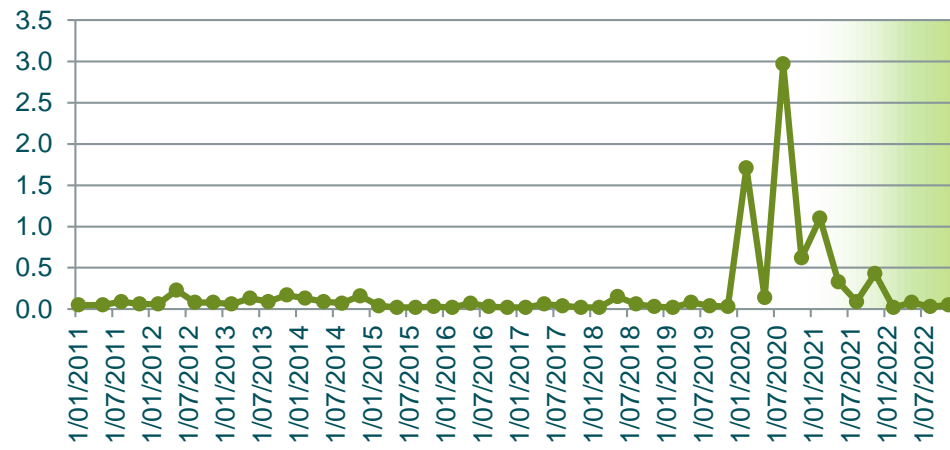
Manganese Total mg/L



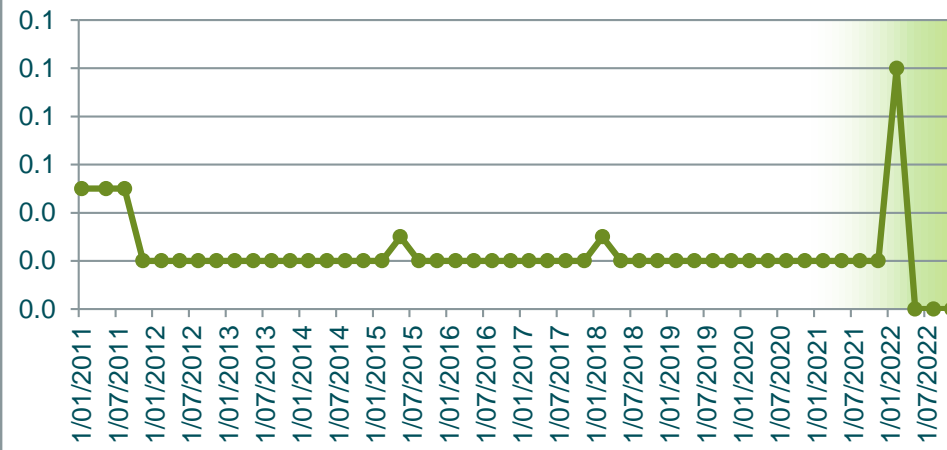
Nickel (Total) mg/L



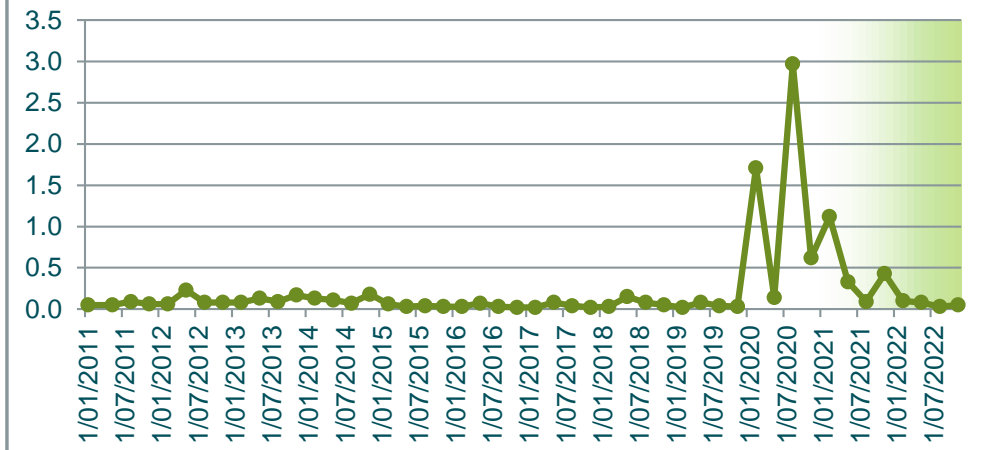
Nitrate N mg/L



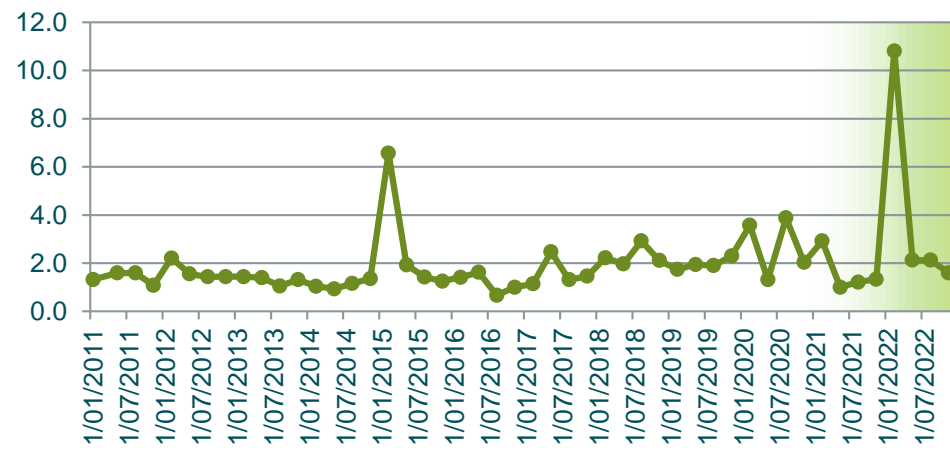
Nitrite N mg/L



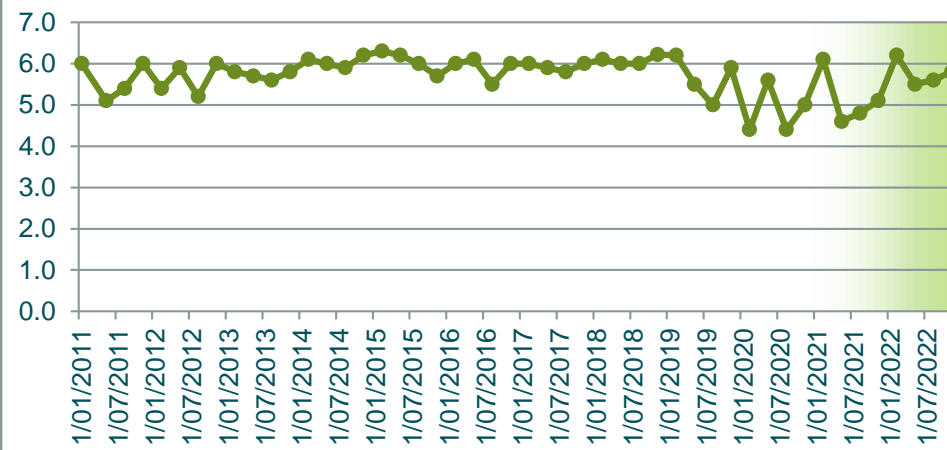
Nitrogen Oxidised mg/L



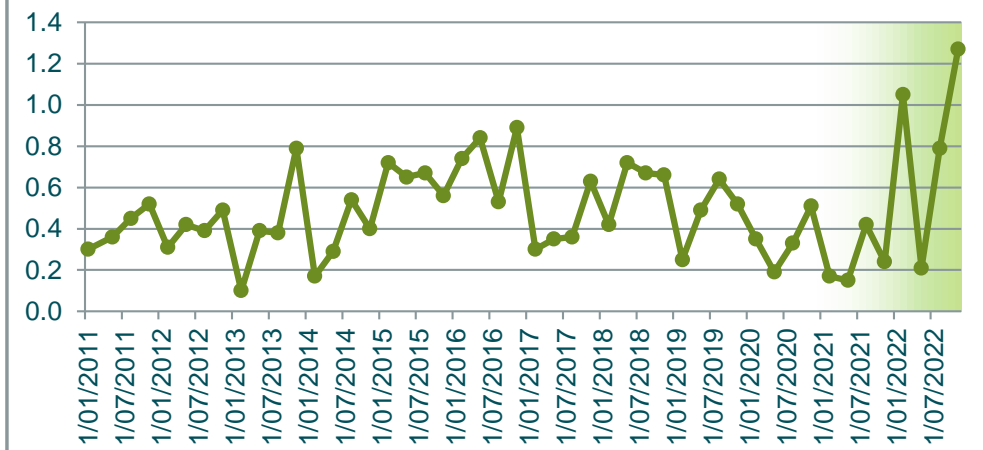
Nitrogen Total mg/L



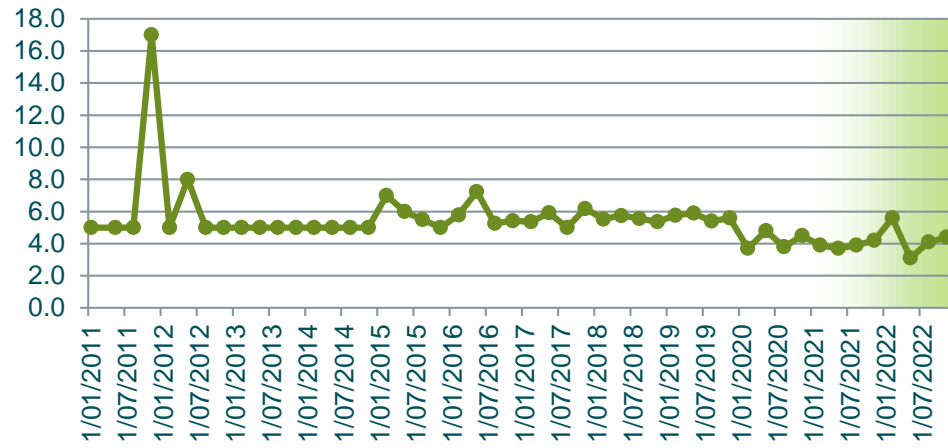
pH pH units



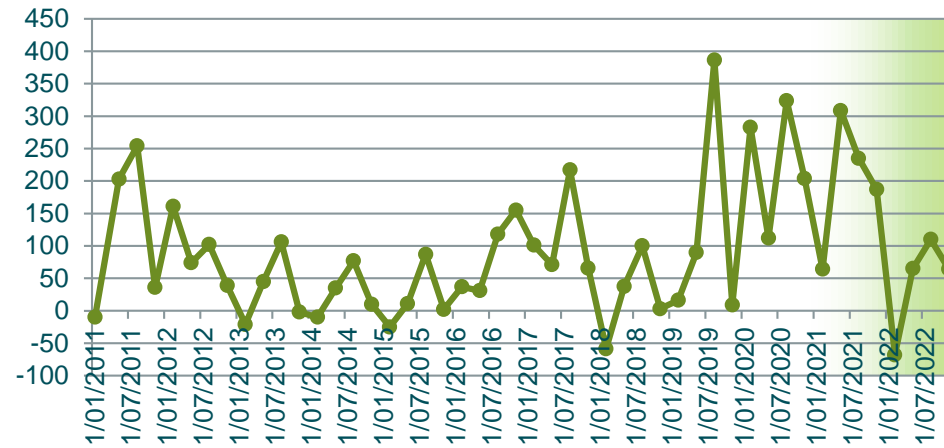
Phosphorus Total mg/L



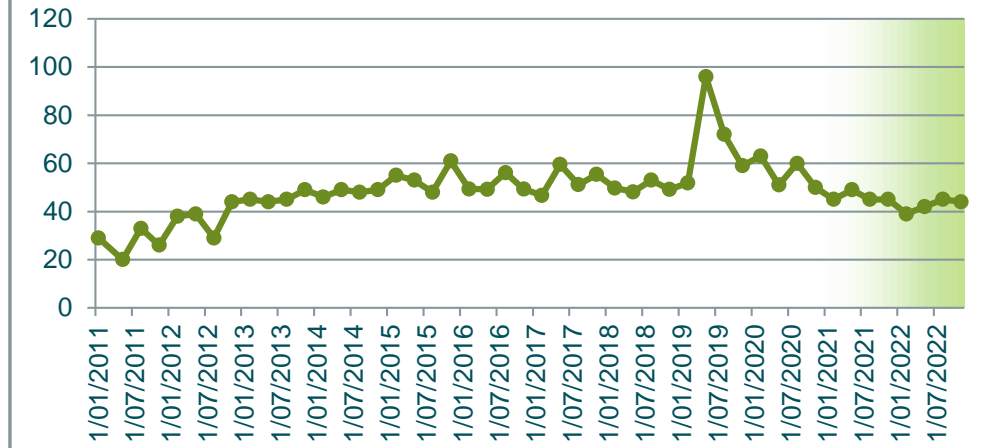
Potassium Total mg/L



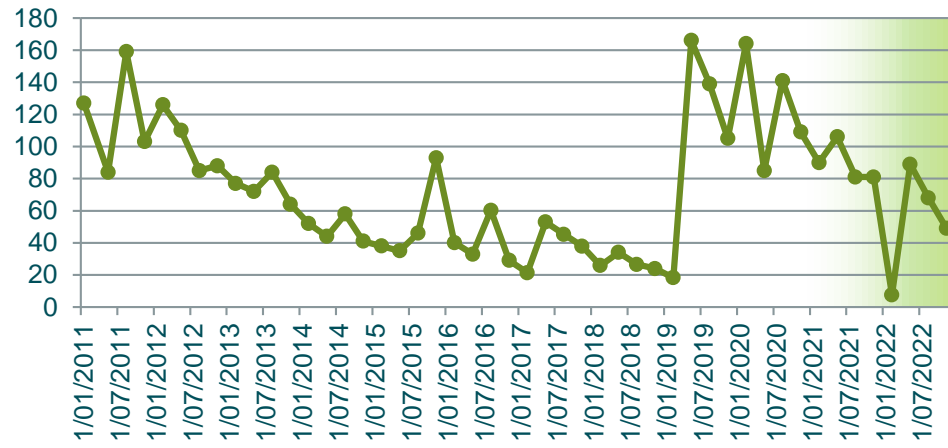
Redox Potential mV



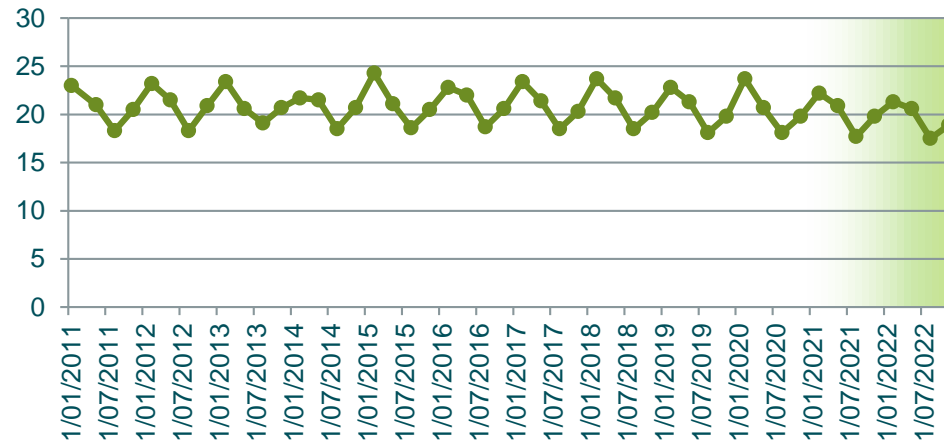
Sodium (Total) mg/L



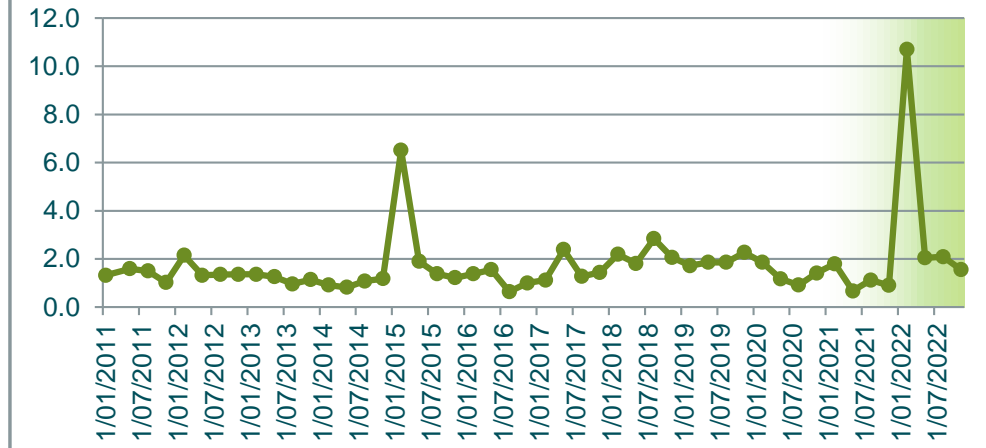
Sulphate mg/L



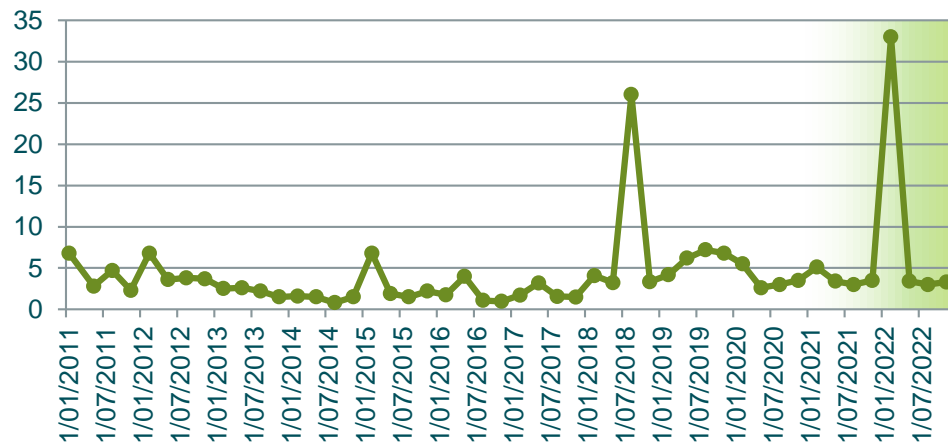
Temperature C



TKN mg/L



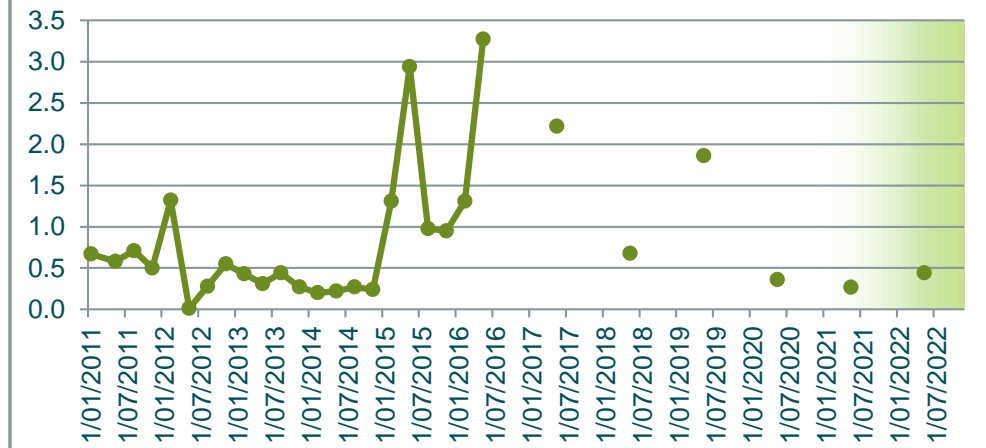
TOC mg/L



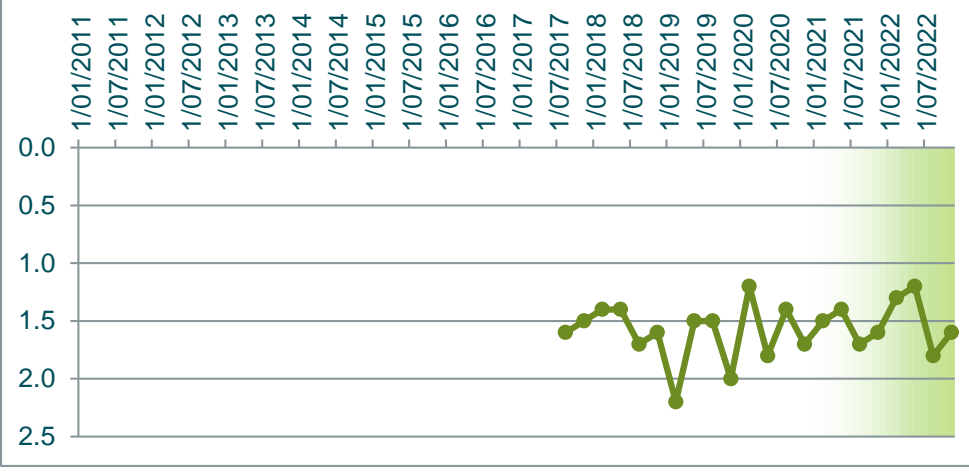
Total Acidity mg/L CaCO3



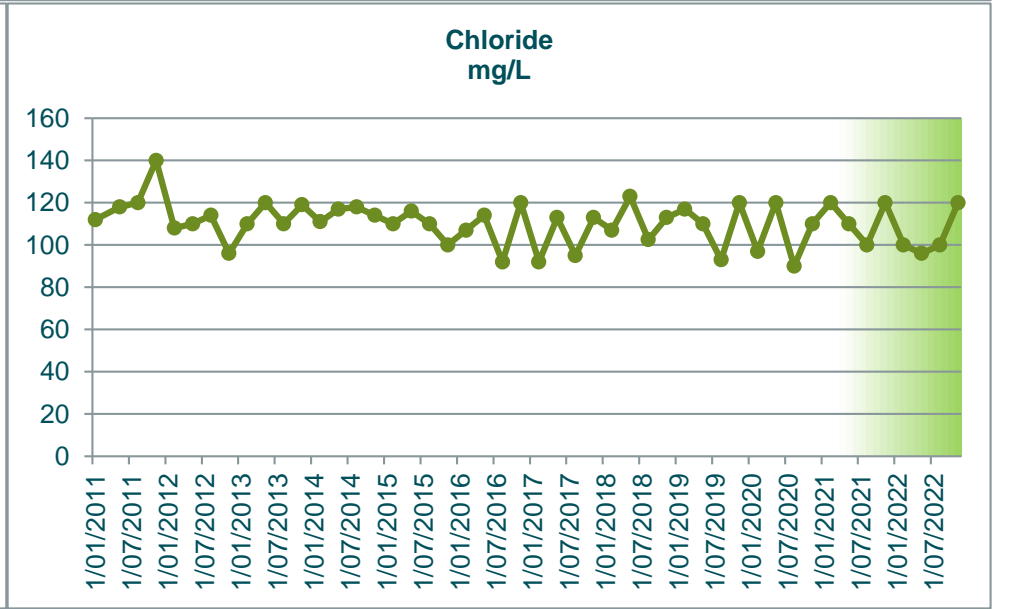
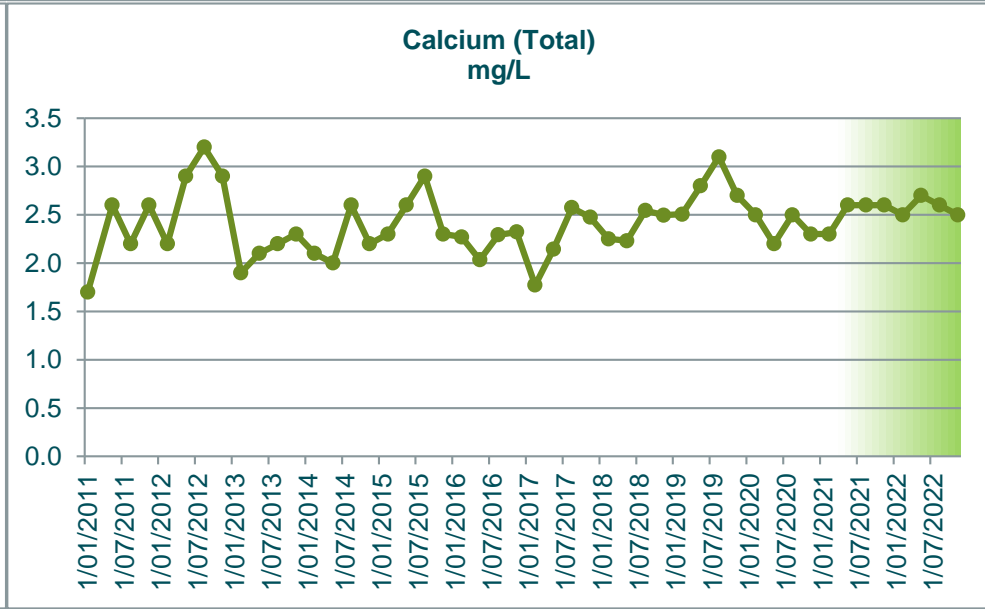
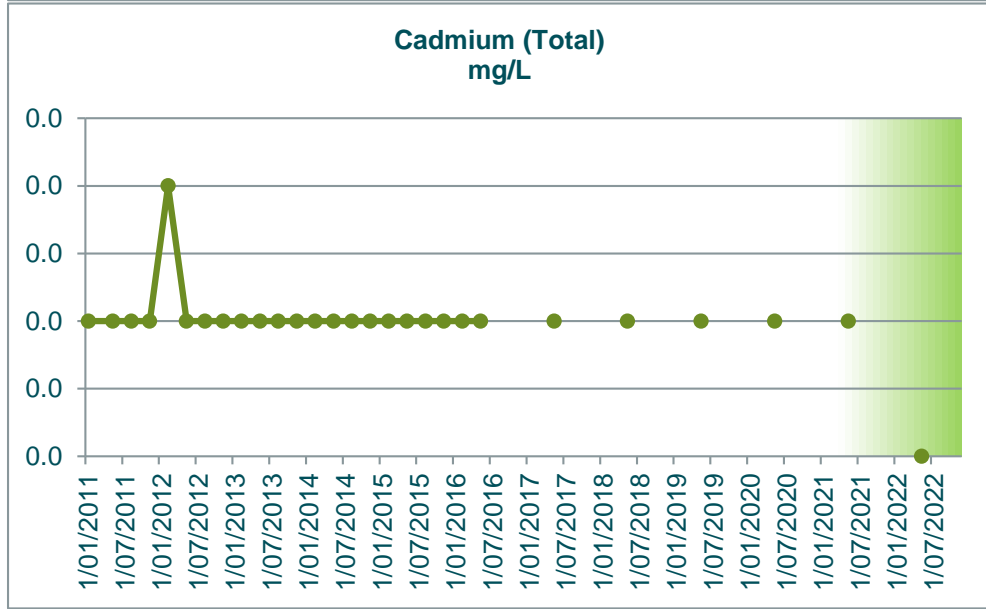
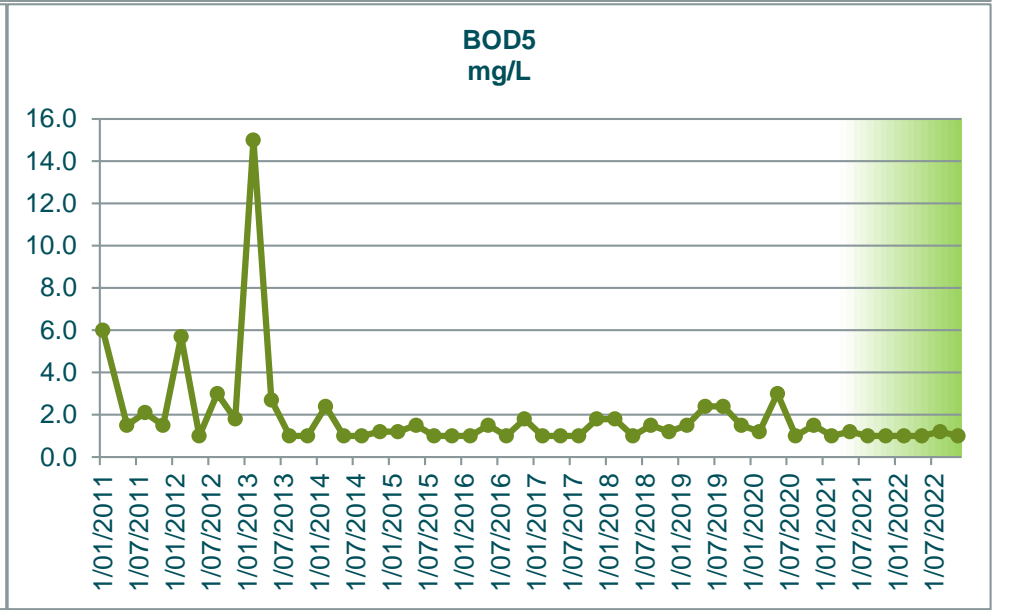
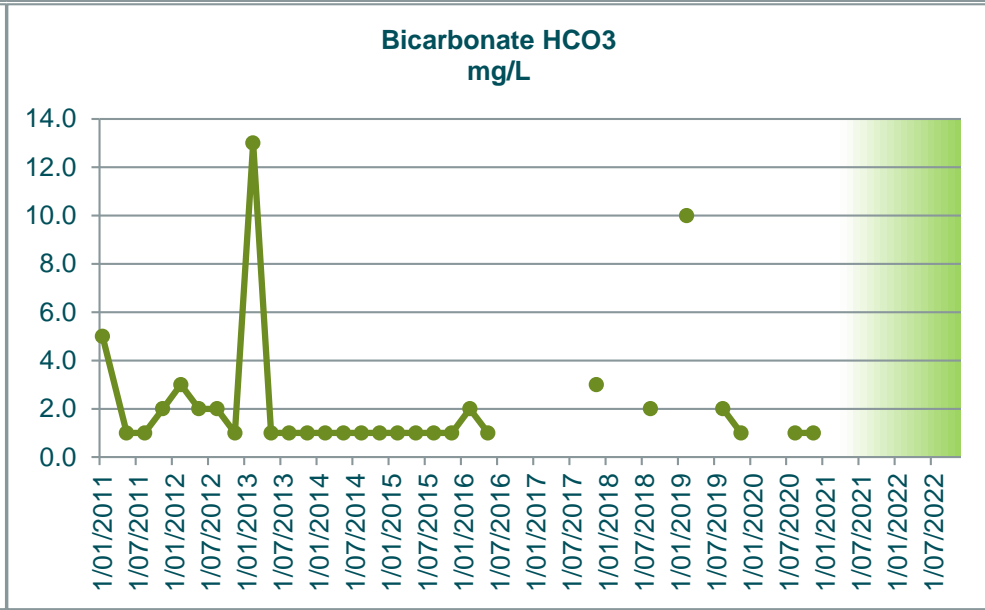
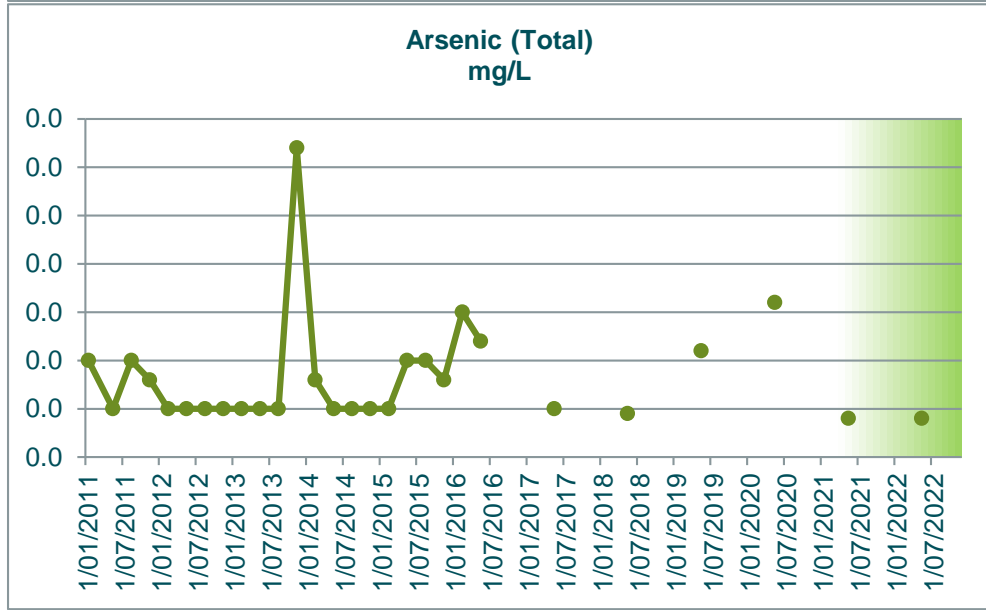
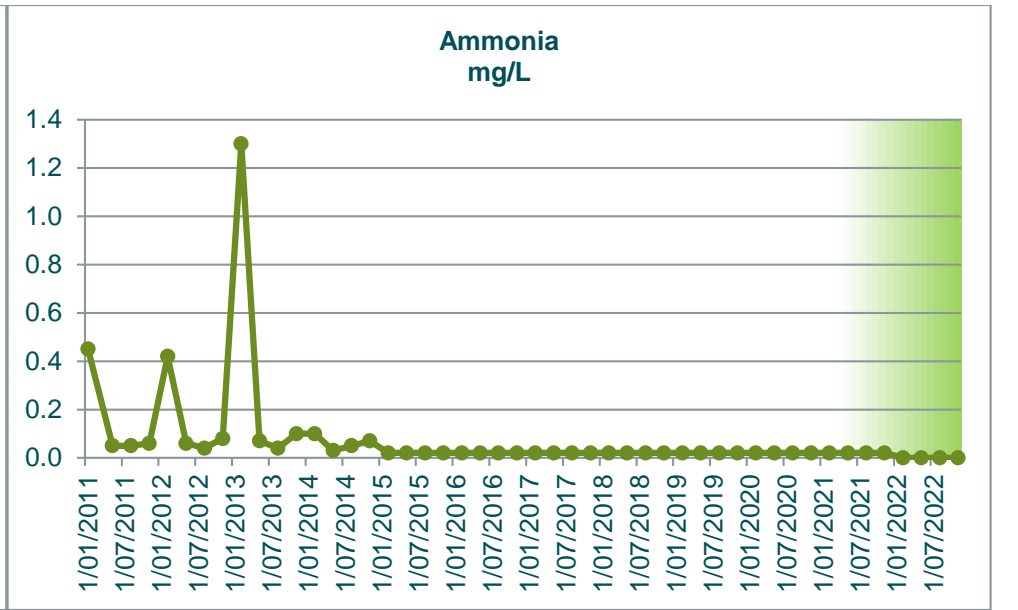
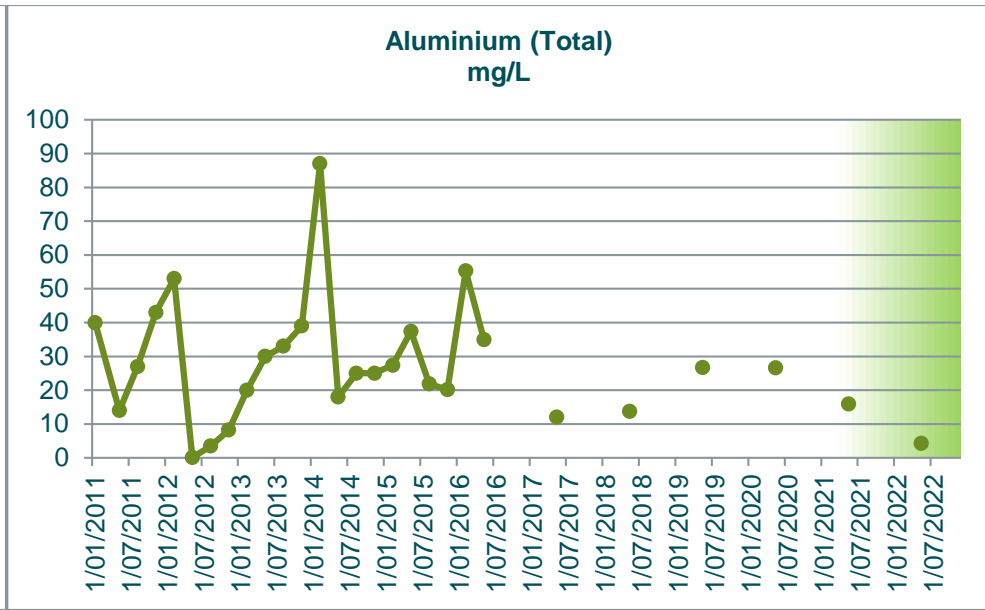
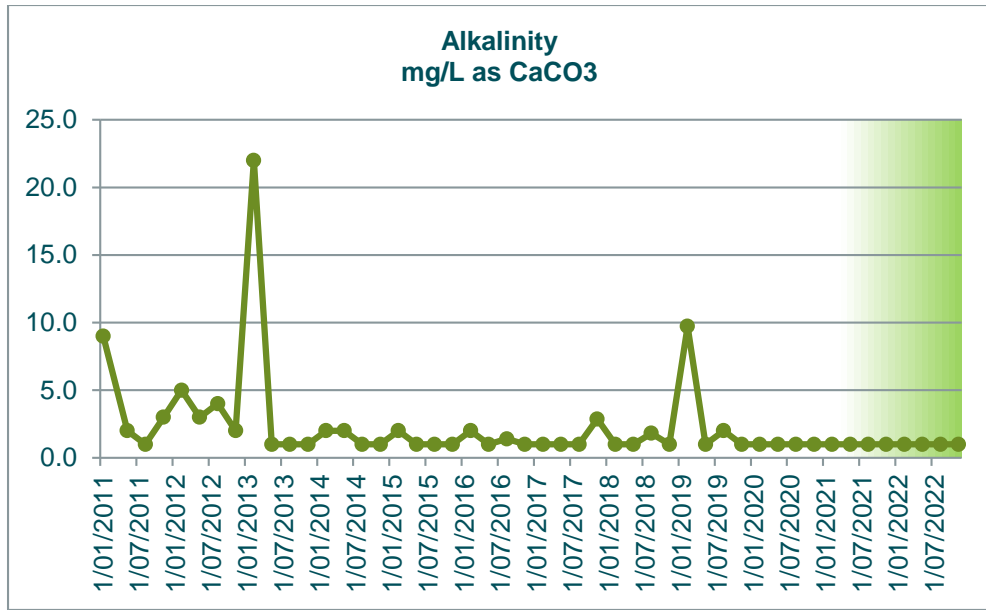
Zinc (Total) mg/L

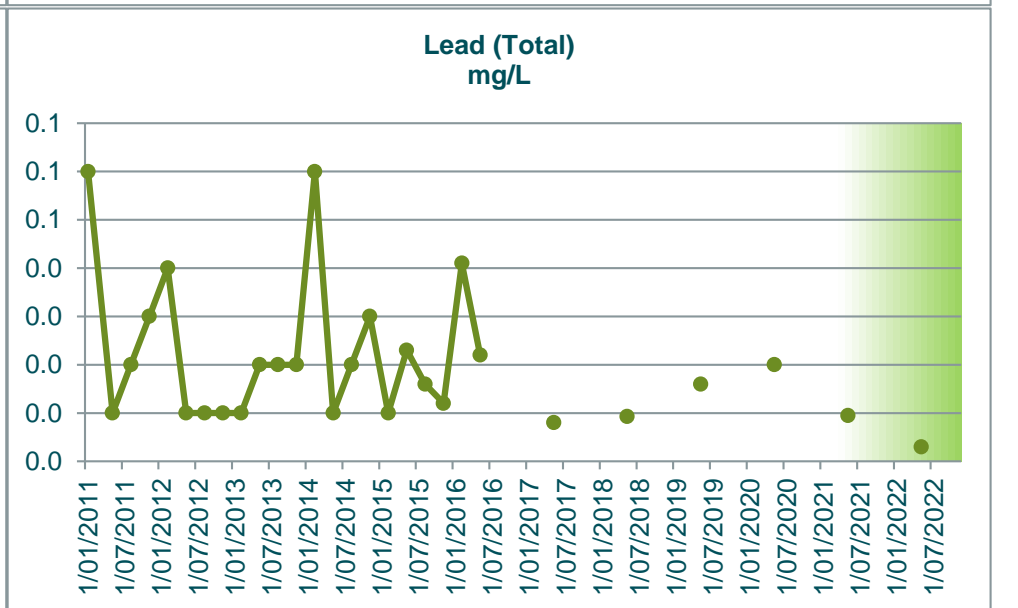
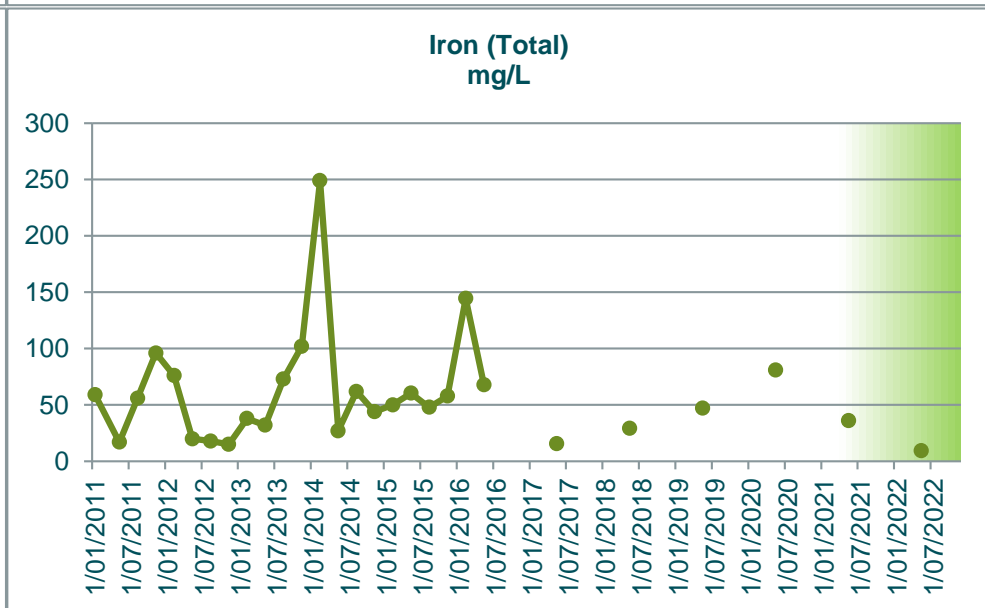
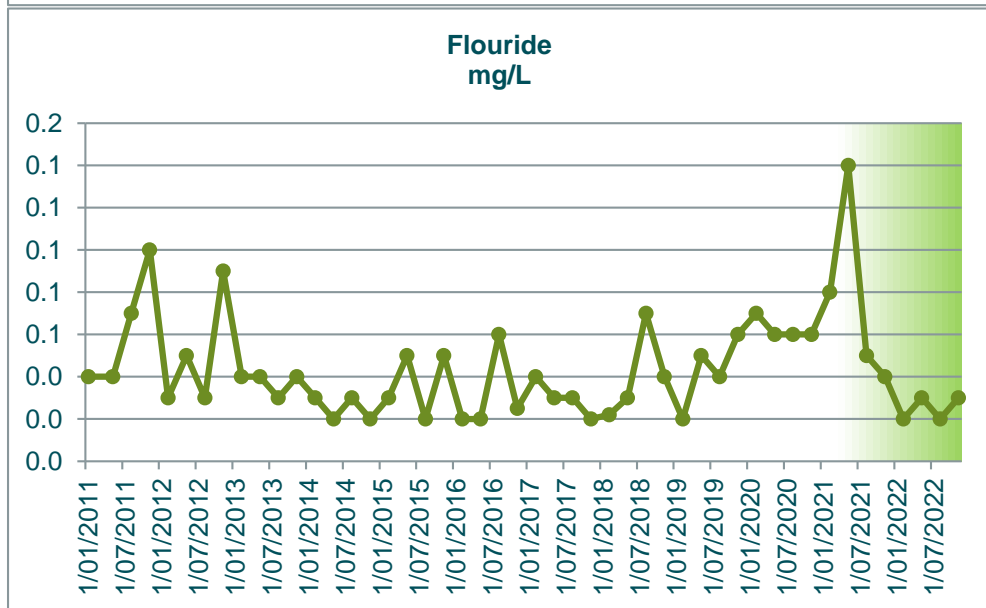
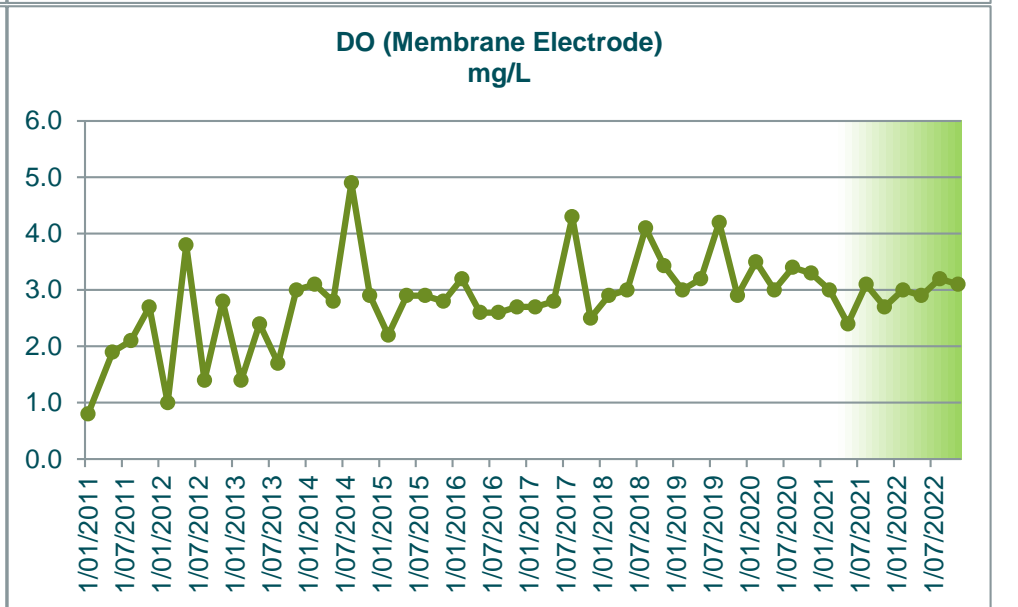
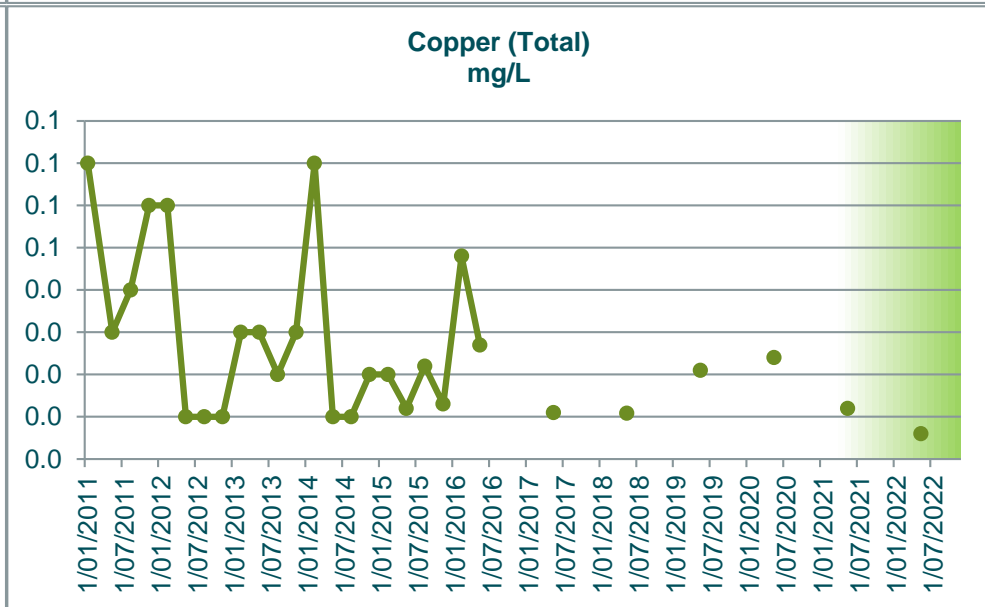
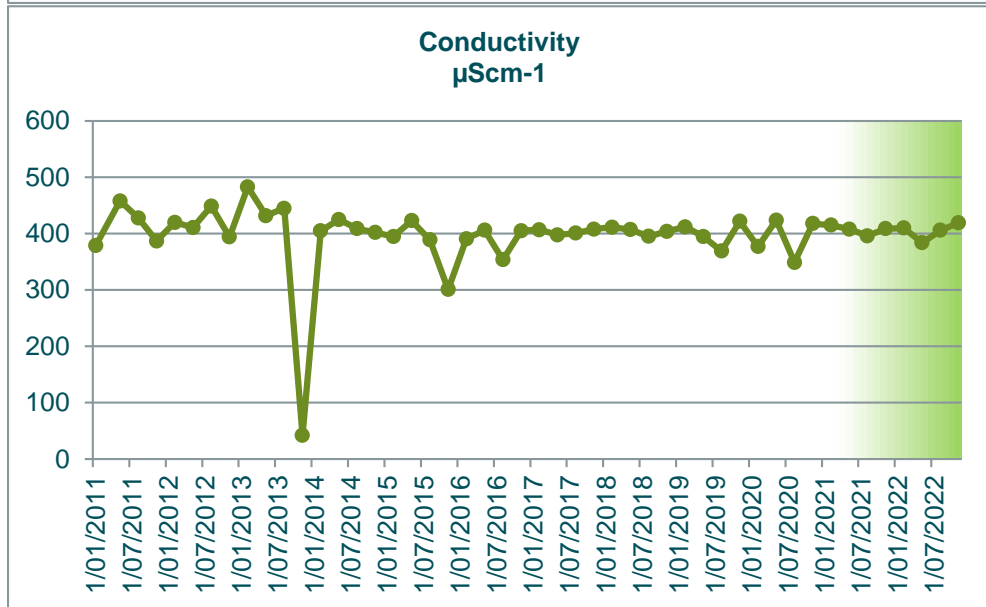
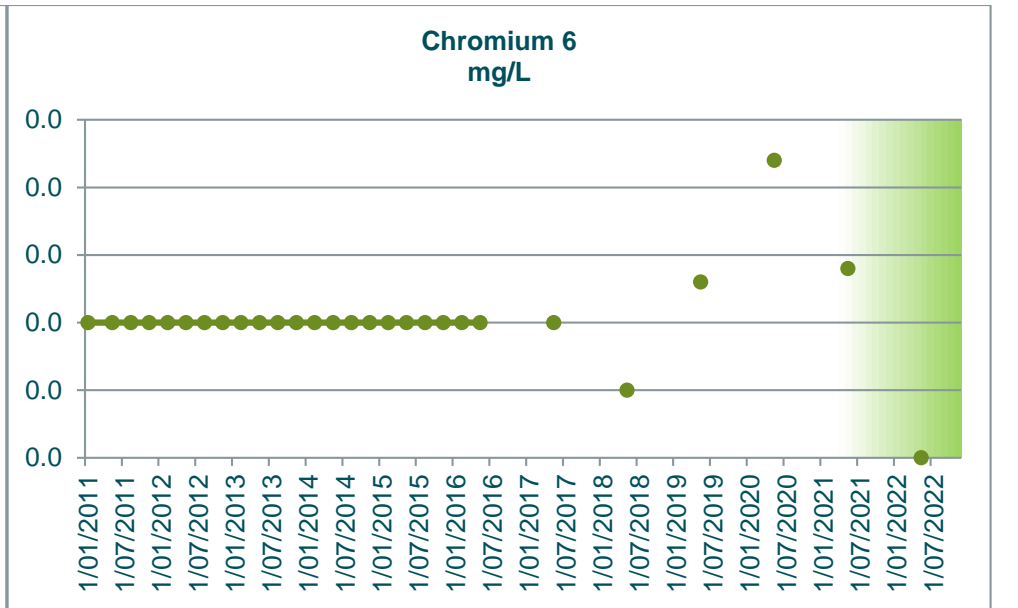
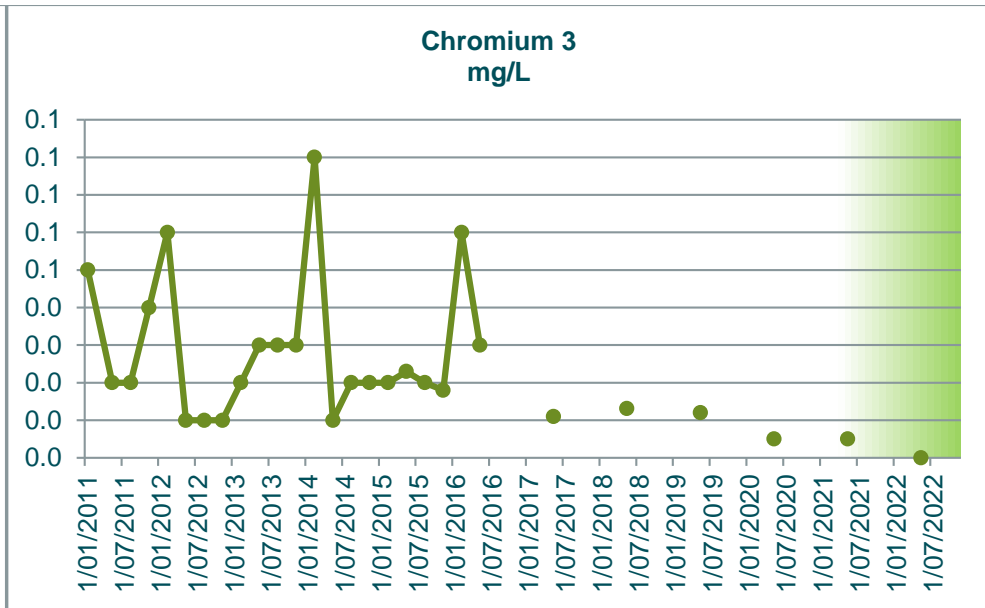
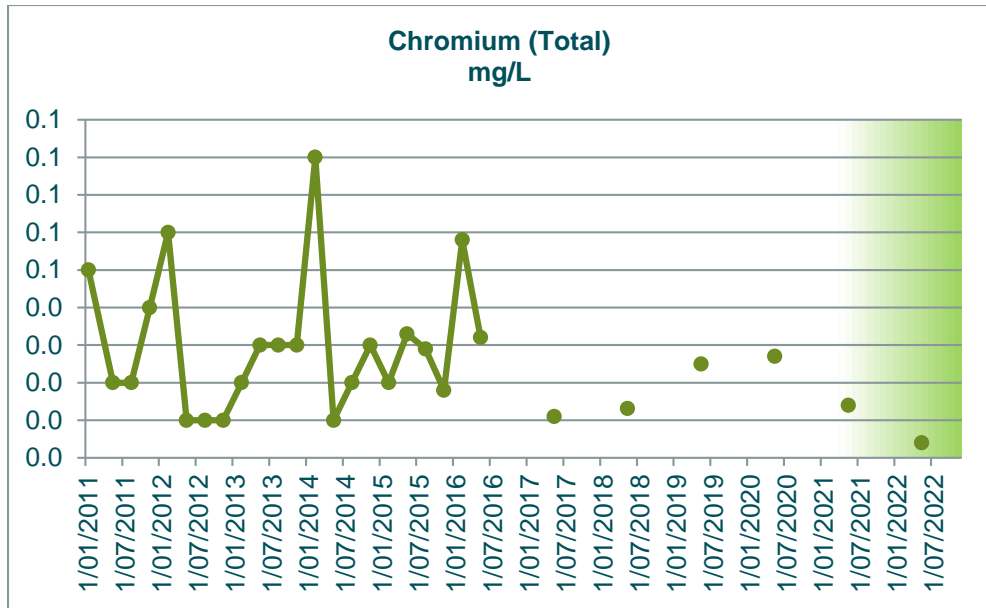


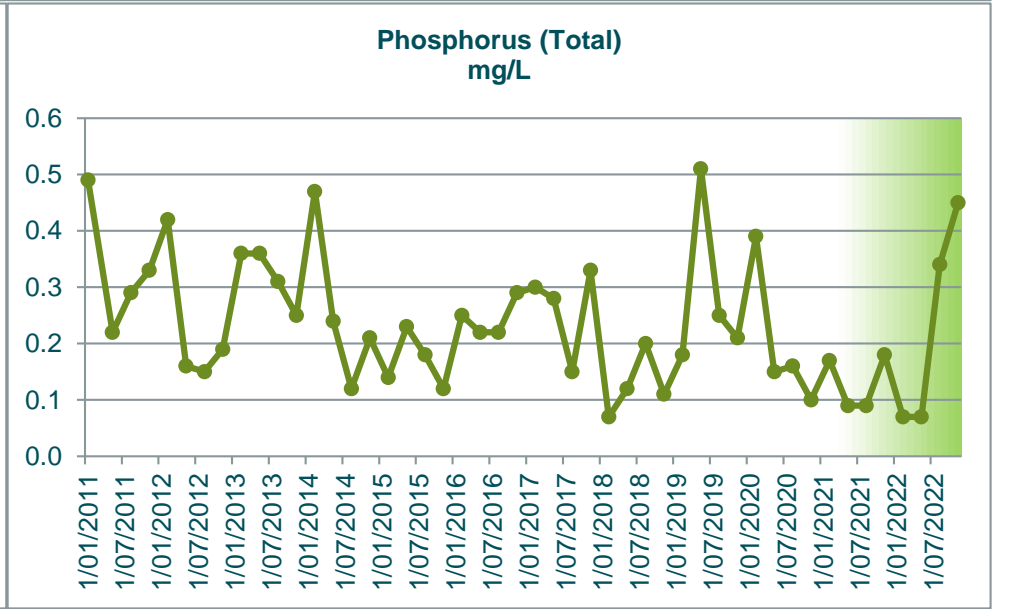
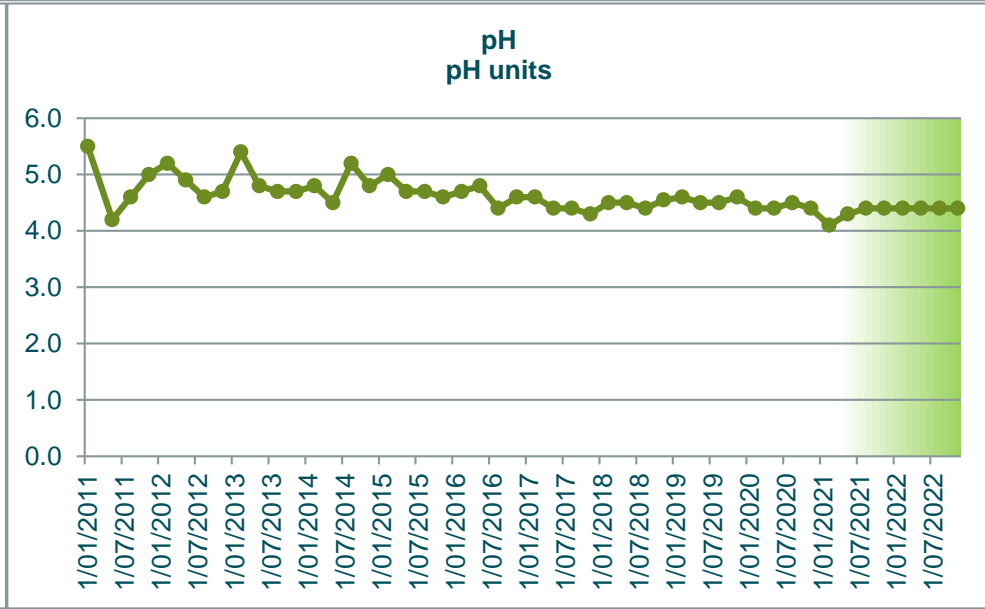
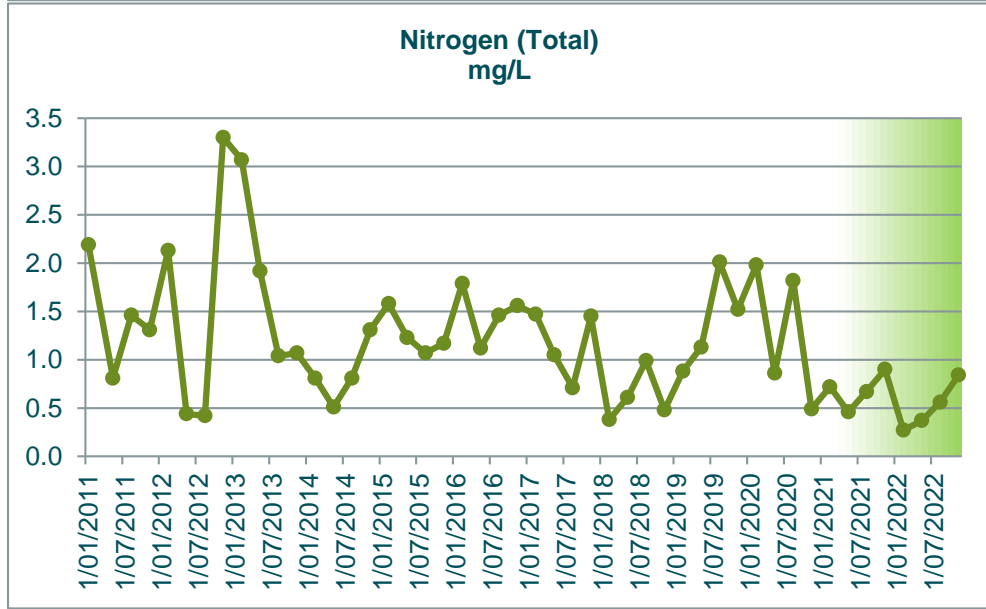
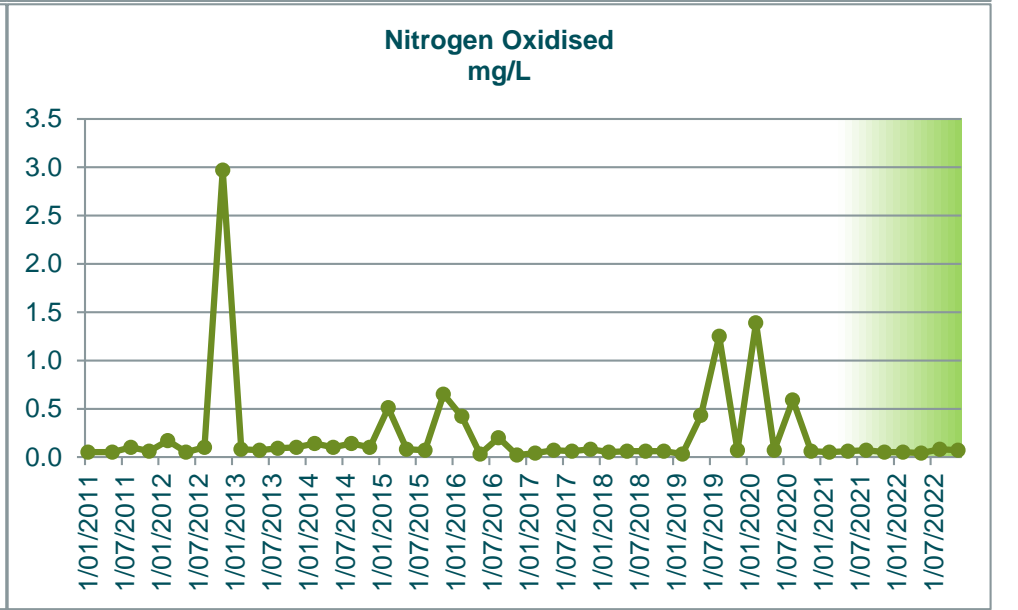
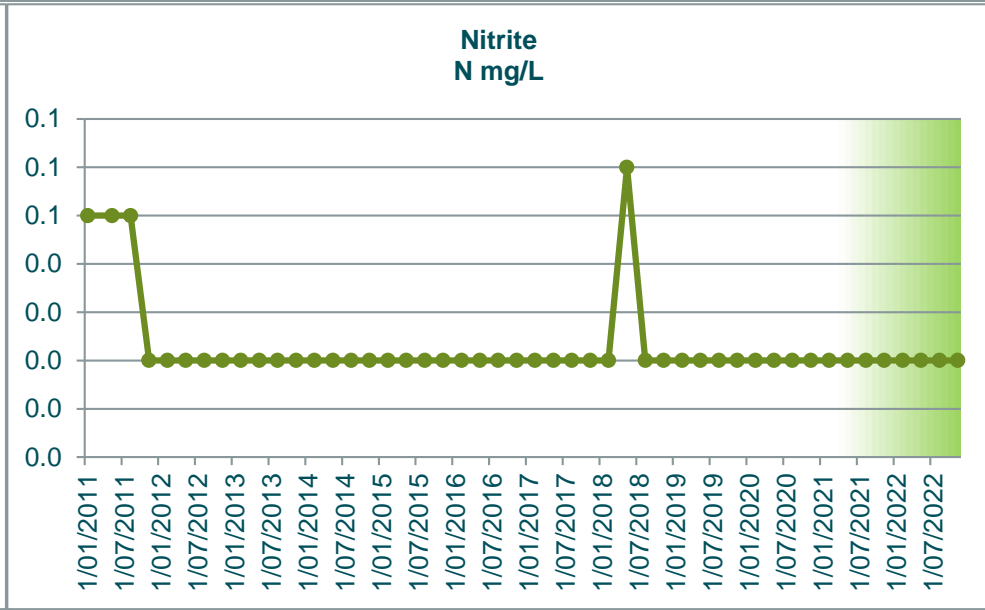
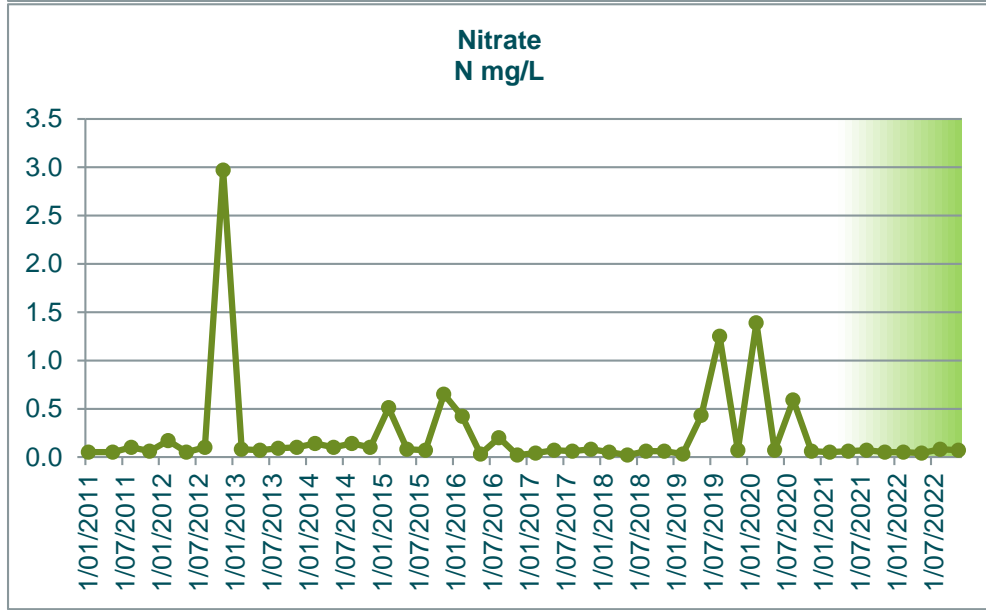
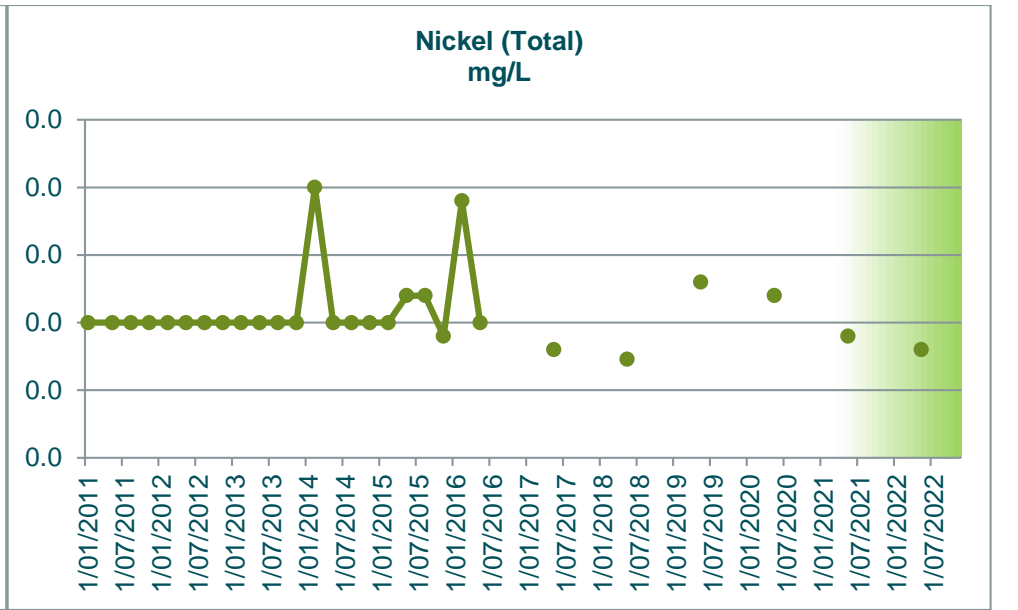
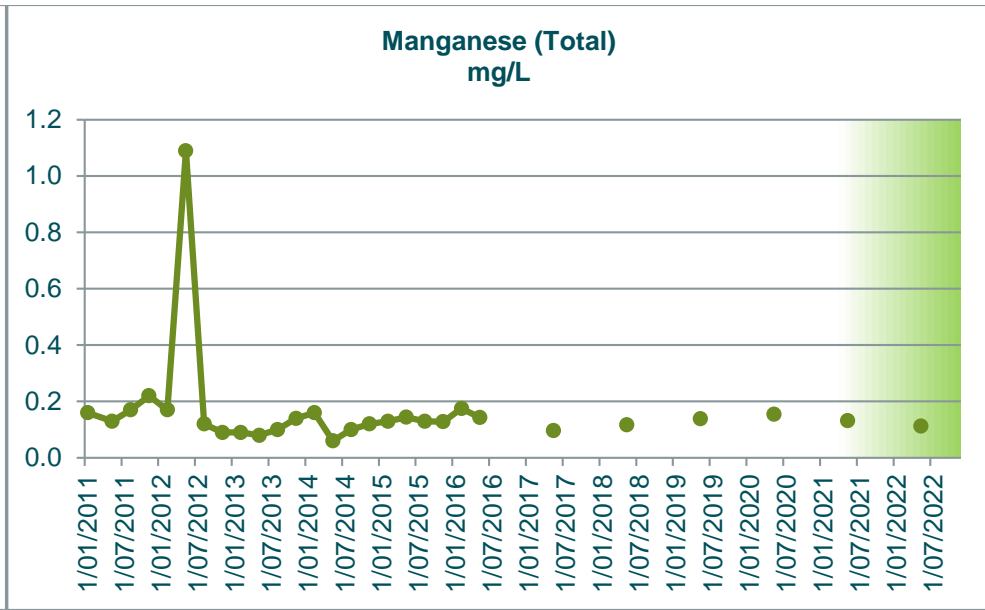
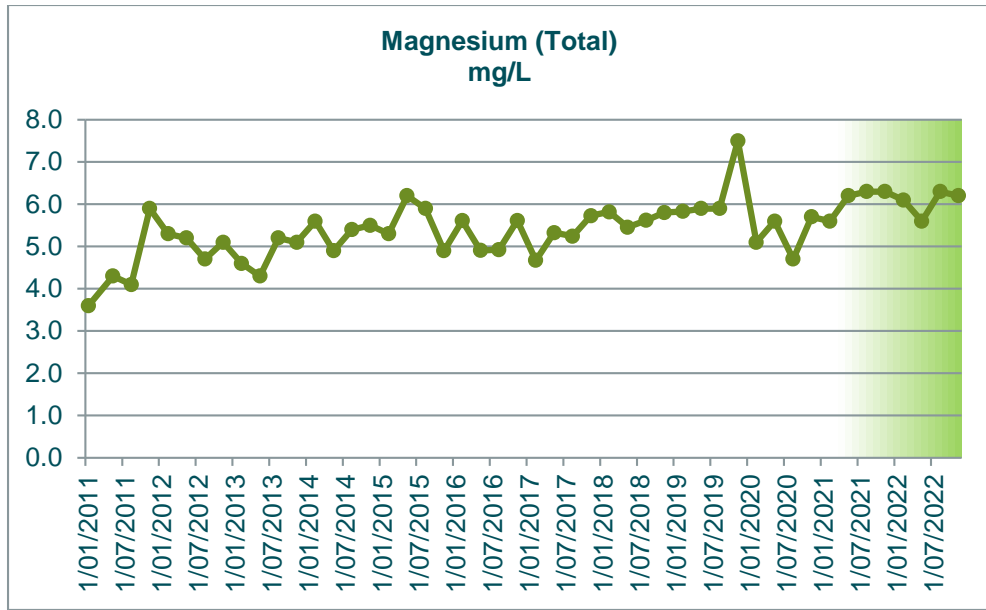
Depth to Groundwater m

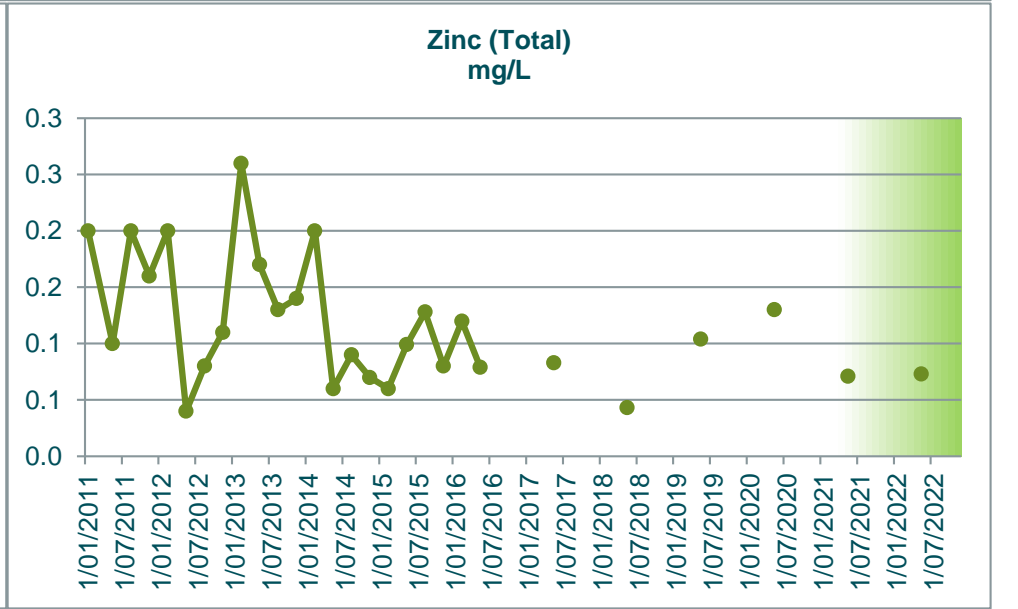
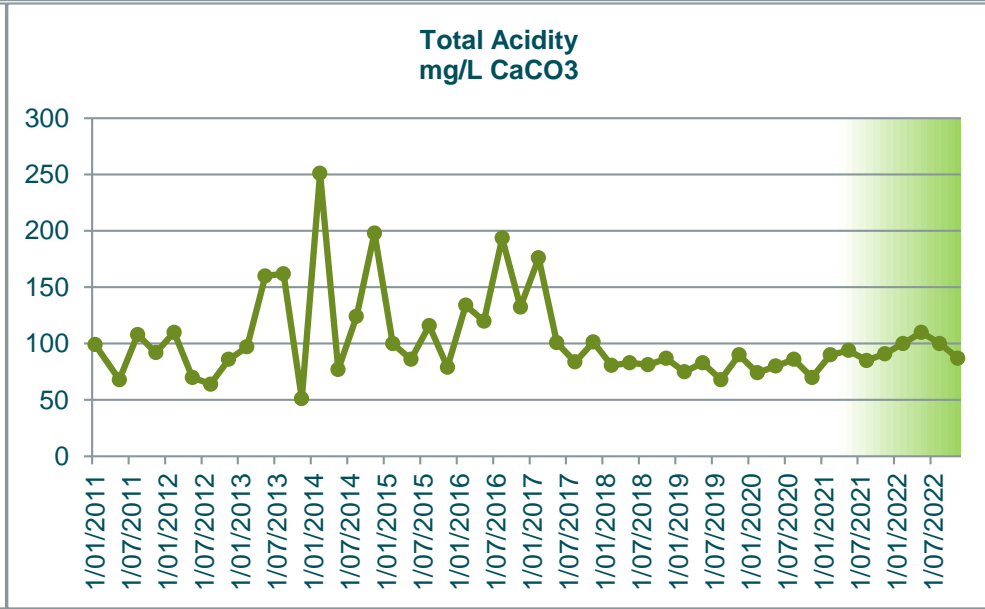
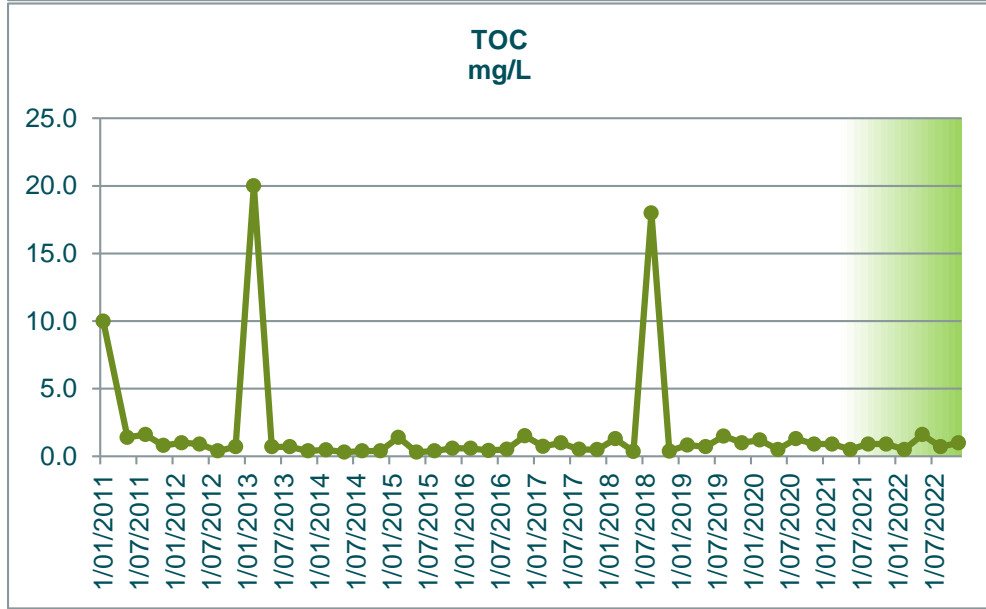
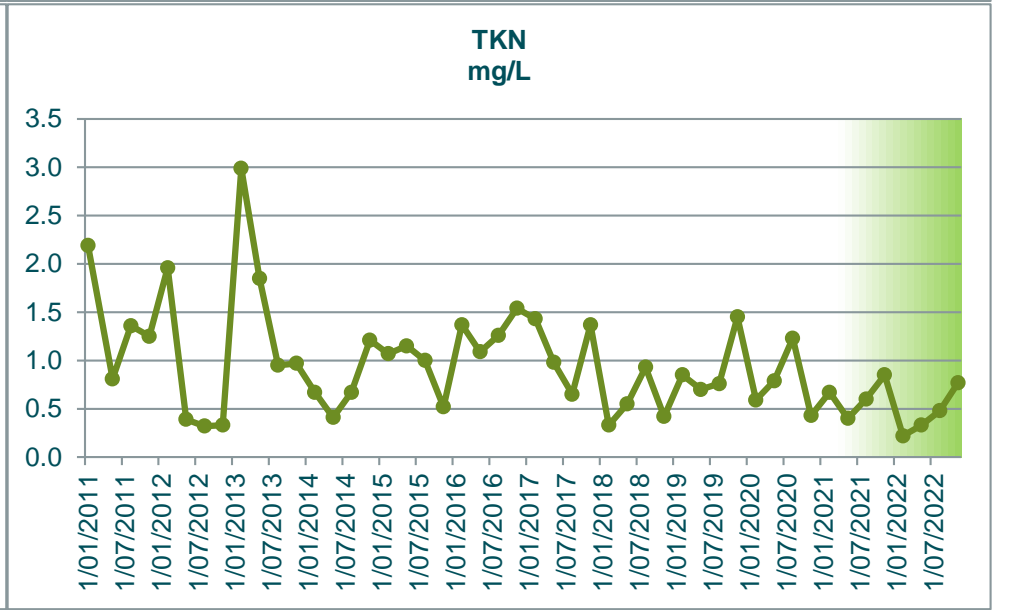
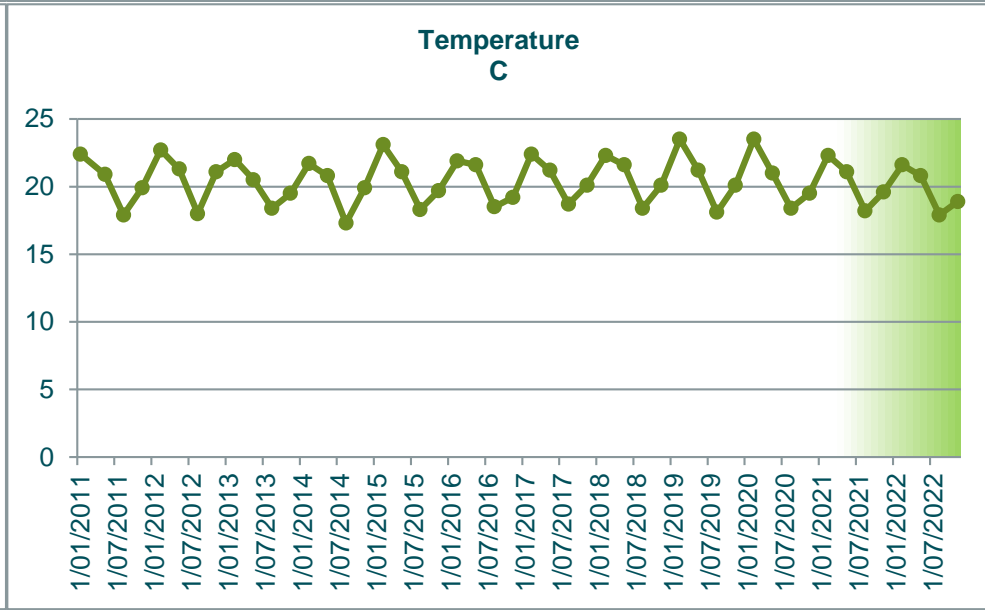
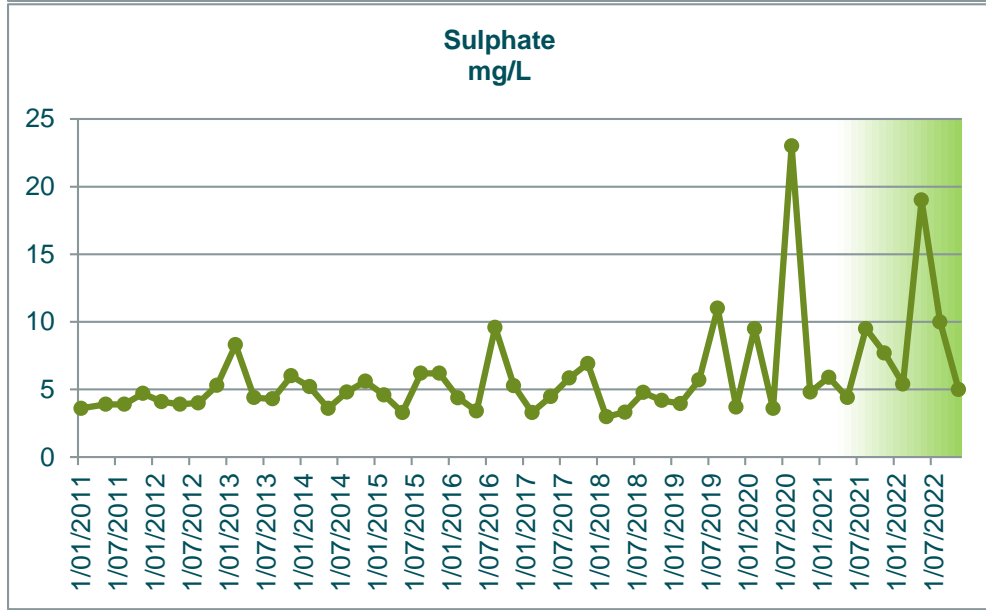
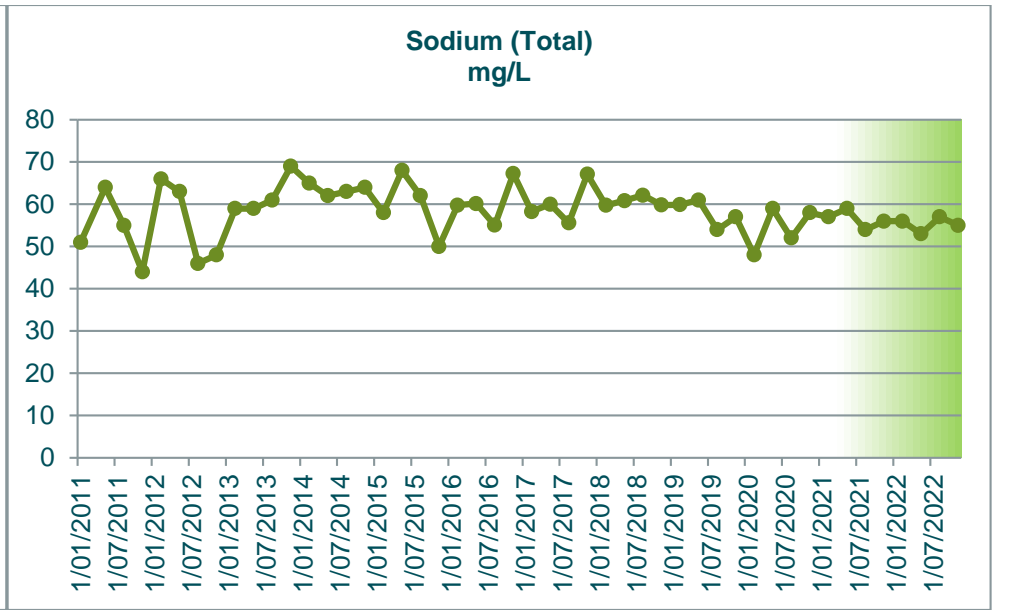
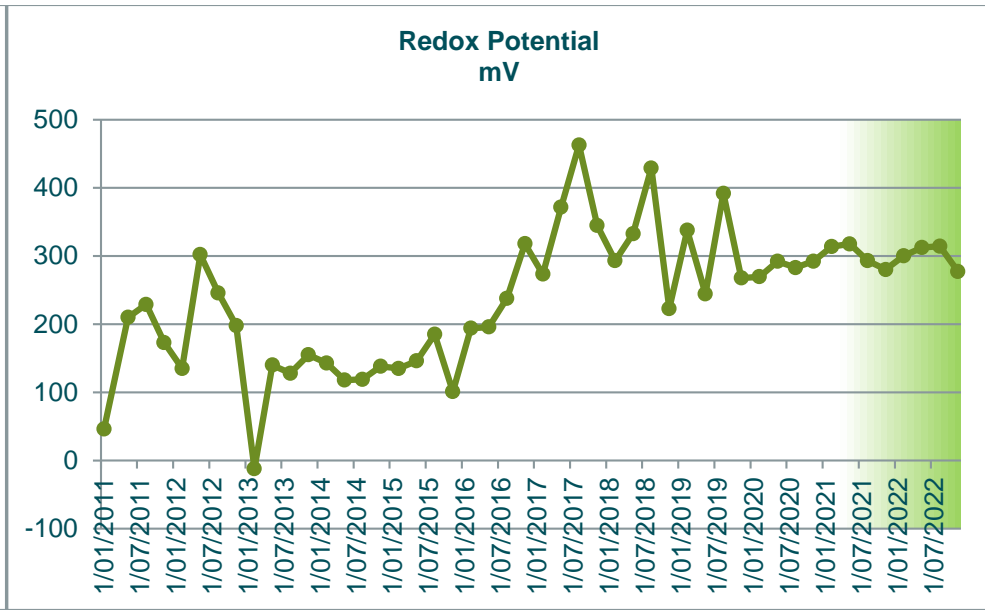
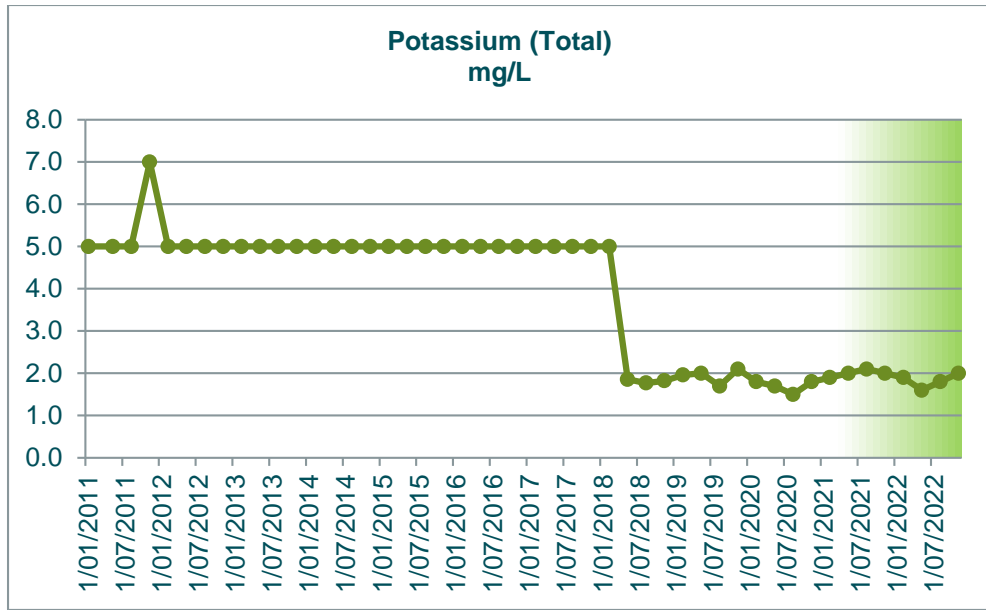


14/08/2018	1.8		0.0		2.0	1.5		2.5	103				395		4.1	0.1			5.6			0.1	0.0	0.1	1.0	4.4		0.2	1.8	429	62	5	18	0.9	18.0	81		1.8
13/11/2018	1.0		0.0			1.2		2.5	113				404		3.4	0.0			5.8			0.1	0.0	0.1	0.5	4.6		0.1	1.8	223	60	4	20	0.4	0.4	87		1.8
12/02/2019	9.7		0.0		10.0	1.5		2.5	117				412		3.0	0.0			5.8			0.0	0.0	0.0	0.9	4.6	0.0	0.2	2.0	338	60	4	24	0.9	0.8	75		2.2
14/05/2019	1.0	27	0.0	0.0		2.4	0.0	2.8	110	0.0	0.0	0.0	395	0.0	3.2	0.1	47	0.0	5.9	0.1	0.0	0.4	0.0	0.4	1.1	4.5	0.0	0.5	2.0	245	61	6	21	0.7	0.7	83	0.1	1.7
13/08/2019	2.0		0.0		2.0	2.4		3.1	93				369		4.2	0.0			5.9			1.3	0.0	1.3	2.0	4.5	0.0	0.3	1.7	392	54	11	18	0.8	1.5	68		1.7
12/11/2019	1.0		0.0		1.0	1.5		2.7	120				422		2.9	0.1			7.5			0.1	0.0	0.1	1.5	4.6	0.0	0.2	2.1	268	57	4	20	1.5	1.0	90		2.3
25/02/2020	1.0		0.0			1.2		2.5	97				377		3.5	0.1			5.1			1.4	0.0	1.4	2.0	4.4	0.0	0.4	1.8	270	48	10	24	0.6	1.2	74		1.5
12/05/2020	1.0	27	0.0	0.0		3.0	0.0	2.2	120	0.0	0.0	0.0	424	0.0	3.0	0.1	81	0.0	5.6	0.2	0.0	0.1	0.0	0.1	0.9	4.4	0.0	0.2	1.7	292	59	4	21	0.8	0.5	80	0.1	1.8
11/08/2020	1.0		0.0		1.0	1.0		2.5	90				349		3.4	0.1			4.7			0.6	0.0	0.6	1.8	4.5	0.0	0.2	1.5	283	52	23	18	1.2	1.3	86		1.7
10/11/2020	1.0		0.0		1.0	1.5		2.3	110				418		3.3	0.1			5.7			0.1	0.0	0.1	0.5	4.4	0.0	0.1	1.8	293	58	5	20	0.4	0.9	70		1.9
9/02/2021	1.0		0.0			1.0		2.3	120				415		3.0	0.1			5.6			0.1	0.0	0.1	0.7	4.1	0.0	0.2	1.9	314	57	6	22	0.7	0.9	90		1.8
11/05/2021	1.0	16	0.0	0.0		1.2	0.0	2.6	110	0.0	0.0	0.0	408	0.0	2.4	0.1	36	0.0	6.2	0.1	0.0	0.1	0.0	0.1	0.5	4.3	0.0	0.1	2.0	318	59	4	21	0.4	0.5	94	0.1	1.6
10/08/2021	1.0		0.0			1.0		2.6	100				396		3.1	0.1			6.3			0.1	0.0	0.1	0.7	4.4	0.0	0.1	2.1	293	54	10	18	0.6	0.9	85		1.7
8/11/2021	1.0		0.0			1.0		2.6	120				409		2.7	0.0			6.3			0.1	0.0	0.1	0.9	4.4	0.0	0.2	2.0	280	56	8	20	0.9	0.9	91		1.6
8/02/2022	1.0		0.0			1.0		2.5	100				410		3.0	0.0			6.1			0.1	0.0	0.1	0.3	4.4	0.0	0.1	1.9	301	56	5	22	0.2	0.5	100		1.6
10/05/2022	1.0	4	0.0	0.0		1.0	0.0	2.7	96	0.0	0.0	0.0	384	0.0	2.9	0.0	9	0.0	5.6	0.1	0.0	0.0	0.0	0.4	4.4	0.0	0.1	1.6	312	53	19	21	0.3	1.6	110	0.1	1.4	
9/08/2022	1.0		0.0			1.2		2.6	100				406		3.2	0.0			6.3			0.1	0.0	0.1	0.6	4.4	0.0	0.3	1.8	314	57	10	18	0.5	0.7	100		1.7
8/11/2022	1.0		0.0			1.0		2.5	120				419		3.1	0.0			6.2			0.1	0.0	0.1	0.8	4.4	0.0	0.5	2.0	277	55	5	19	0.8	1.0	87		1.6
2022 Min	1.0	4	0.0	0.0	0.0	1.0	0.0	2.5	96	0.0	0.0	0.0	384	0.0	2.9	0.0	9	0.0	5.6	0.1	0.0	0.0	0.0	0.3	4.4	0.0	0.1	1.6	277	53	5	18	0.2	0.5	87	0.1	1.4	
2022 Max	1.0	4	0.0	0.0	0.0	1.2	0.0	2.7	120	0.0	0.0	0.0	419	0.0	3.2	0.0	9	0.0	6.3	0.1	0.0	0.1	0.0	0.1	0.8	4.4	0.0	0.5	2.0	314	57	19	22	0.8	1.6	110	0.1	1.7
2022 Mean	1.0	4	0.0	0.0	#DIV/0!	1.1	0.0	2.6	104	0.0	0.0	0.0	405	0.0	3.1	0.0	9	0.0	6.1	0.1	0.0	0.1	0.0	0.1	0.5	4.4	0.0	0.2	1.8	301	55	10	20	0.5	1.0	99	0.1	1.6
Long-term Average	2.2	27	0.1	0.0	2.2	1.9	0.0	2.4	110	0.0	0.0	0.0	397	0.0	2.8	0.0	58	0.0	5.4	0.2	0.0	0.2	0.0	0.2	1.2	4.6	0.0	0.2	3.8	240	58	6	20	0.9	1.7	103	0.1	1.7

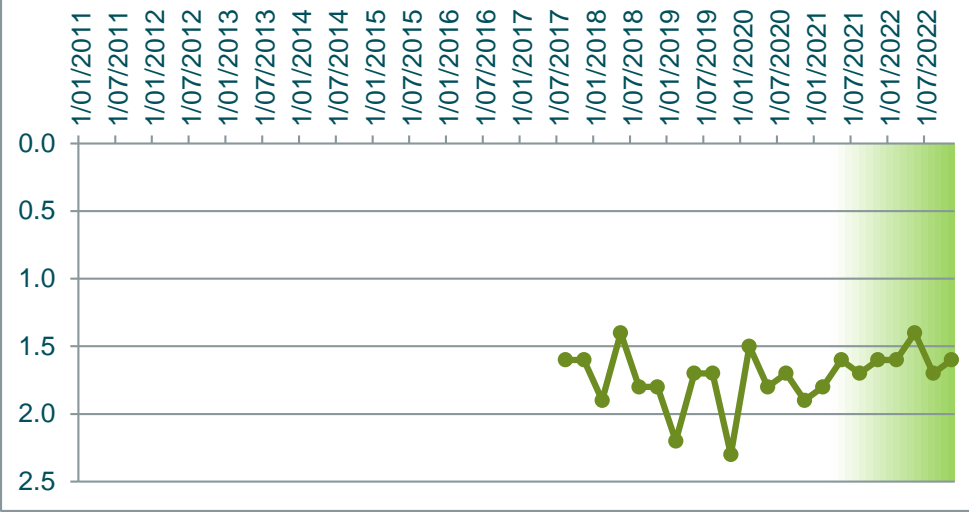








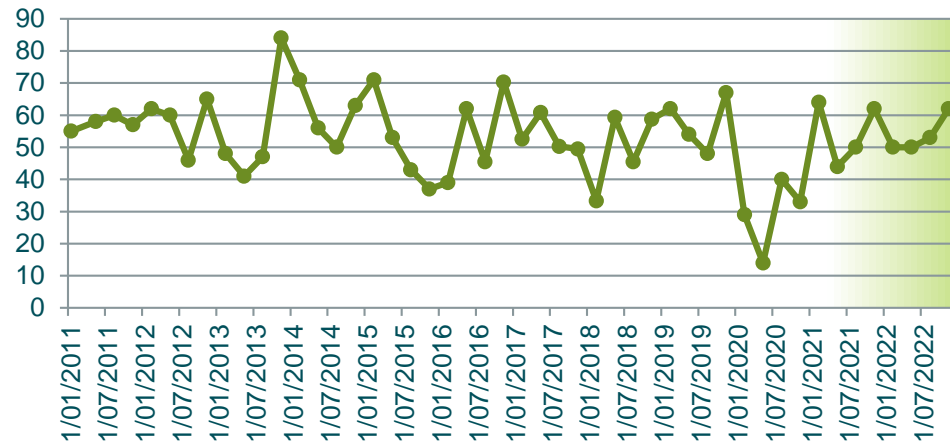
Depth to Groundwater
m



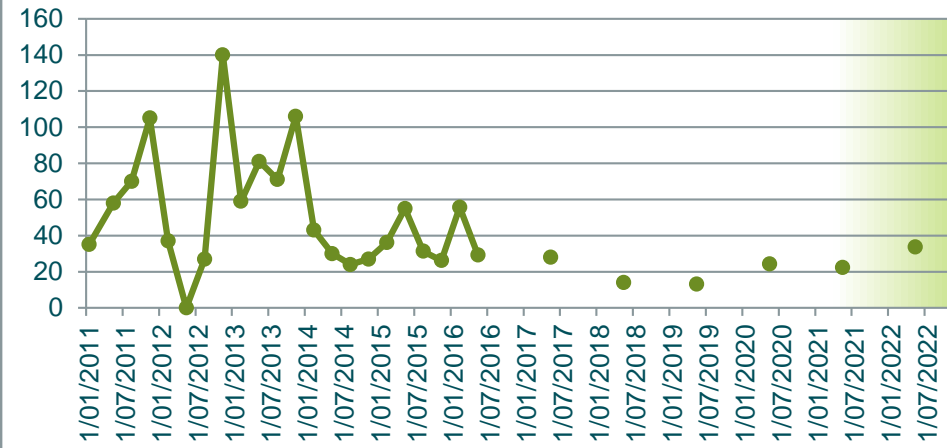
Depth to Groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH pH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity uS/cm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	BOD5 mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW8	
31/01/2011	55	35	0.1	0.0	34	1.6	0.0	5.7	99	0.0	0.0	0.0	438	0.1	2.1	0.2	80	0.0	5	0.6	0.0	0.1	0.1	0.1	0.7	6.4	0.2	5.0	-17	62	18	23	0.7	5.3	44	0.1			
10/05/2011	58	58	0.1	0.0	35	1.2	0.0	5.6	106	0.1	0.1	0.0	539	0.1	0.9	0.2	108	0.0	6	0.8	0.0	0.1	0.1	0.1	1.1	5.7	0.3	5.0	101	77	15	20	1.1	1.9	76	0.2			
9/08/2011	60	70	0.1	0.1	37	2.7	0.0	6.0	120	0.1	0.1	0.0	543	0.1	1.0	0.1	163	0.0	6	1.0	0.0	0.1	0.1	0.1	1.2	6.2	0.3	5.0	211	72	11	19	1.1	2.0	101	0.3			
8/11/2011	57	105	0.3	0.1	35	4.8	0.0	7.6	132	0.1	0.1	0.0	546	0.1	0.9	0.2	203	0.0	8	1.4	0.1	0.2	0.0	0.2	1.4	6.4	0.5	9.0	-35	57	16	21	1.1	1.5	95	0.4			
6/02/2012	62	37	0.2	0.0	38	1.8	0.0	6.7	109	0.0	0.0	0.0	520	0.0	1.9	0.2	70	0.0	7	0.7	0.0	0.1	0.0	0.1	0.9	6.3	0.2	5.0	102	87	12	23	0.7	1.3	65	0.3			
8/05/2012	60	0	0.2	0.0	37	3.3	0.0	11.0	110	0.0	0.0	0.0	541	0.0	3.3	0.1	0	0.0	13	0.1	0.0	0.2	0.0	0.2	0.8	6.3	0.2	7.0	219	86	26	21	0.6	1.1	60	0.1			
6/08/2012	46	27	0.1	0.2	28	1.0	0.0	6.3	109	0.0	0.0	0.0	544	0.0	3.4	0.2	46	0.0	6	0.5	0.0	0.1	0.0	0.1	0.6	6.0	0.3	5.0	70	61	13	18	0.5	0.5	44	0.1			
13/11/2012	65	140	0.2	0.1	40	3.3	0.0	6.4	93	0.2	0.2	0.0	557	0.2	0.8	0.1	368	0.1	7	2.3	0.1	0.5	0.0	0.5	1.5	6.2	0.3	5.0	4	72	15	21	1.0	1.4	94	0.9			
13/02/2013	48	59	0.3	0.0	29	1.2	0.0	7.0	100	0.1	0.1	0.0	529	0.1	3.6	0.1	92	0.0	7	0.7	0.0	0.2	0.0	0.2	3.1	6.3	0.4	5.0	-30	77	12	22	2.9	0.7	50	0.2			
14/05/2013	41	81	0.2	0.0	25	1.8	0.0	5.2	88	0.1	0.1	0.0	463	0.1	2.7	0.1	106	0.1	5	0.7	0.0	0.2	0.0	0.2	1.3	6.1	0.2	5.0	17	69	19	20	1.0	1.2	140	0.2			
6/08/2013	47	71	0.0	0.1	29	1.2	0.0	6.2	110	0.1	0.1	0.0	552	0.0	3.4	0.2	155	0.0	6	0.7	0.0	0.0	0.0	0.0	1.0	6.2	0.2	5.0	21	83	16	19	1.0	0.5	110	0.2			
12/11/2013	84	106	0.6	0.1	51	5.4	0.0	8.7	113	0.1	0.1	0.0	587	0.1	2.1	0.2	163	0.0	9	0.9	0.0	0.2	0.0	0.2	1.7	6.3	0.3	5.0	44	92	14	20	1.6	1.3	52	0.3			
11/02/2014	71	43	0.3	0.0	43	3.9	0.0	7.3	106	0.0	0.0	0.0	545	0.0	2.6	0.2	0	0.0	8	0.0	0.0	0.1	0.0	0.1	1.3	6.5	0.1	5.0	-68	84	13	21	1.2	1.6	175	0.2			
13/05/2014	56	30	0.2	0.0	34	3.6	0.0	5.5	107	0.0	0.0	0.0	547	0.0	3.0	0.2	77	0.0	6	0.4	0.0	0.1	0.0	0.1	0.9	6.3	0.2	5.0	-77	70	12	21	0.8	1.0	64	0.1			
12/08/2014	50	24	0.1	0.1	30	1.8	0.0	6.2	105	0.0	0.0	0.0	490	0.0	3.8	0.2	107	0.0	7	0.6	0.0	0.1	0.0	0.1	0.6	6.5	0.2	5.0	-7	77	15	18	0.5	0.5	101	0.1			
10/11/2014	63	27	0.1	0.1	38	1.5	0.0	6.9	106	0.0	0.0	0.0	512	0.0	3.0	0.2	95	0.0	7	0.5	0.0	0.0	0.0	0.1	1.2	6.5	0.2	5.0	-18	83	14	20	1.1	0.4	147	0.1			
9/02/2015	71	36	0.0	0.0	43	2.1	0.0	7.9	110	0.0	0.0	0.0	533	0.0	1.9	0.2	55	0.0	7	0.5	0.0	0.0	0.0	0.0	0.9	6.6	0.2	5.0	-31	84	10	22	0.9	0.6	64	0.1			
11/05/2015	53	55	0.0	0.0	32	1.5	0.0	7.8	104	0.1	0.1	0.0	522	0.0	3.2	0.2	66	0.0	8	0.6	0.0	0.0	0.0	0.0	0.8	6.5	0.2	5.0	19	88	12	21	0.8	0.7	73	0.2			
11/08/2015	43	31	0.0	0.1	43	1.0	0.0	6.7	110	0.0	0.0	0.0	476	0.0	4.7	0.2	98	0.0	7	0.7	0.0	0.0	0.0	0.0	0.9	6.2	0.1	5.0	48	78	15	19	0.8	0.7	72	0.1			
10/11/2015	37	26	0.0	0.0	37	1.0	0.0	4.8	79	0.0	0.0	0.0	303	0.0	2.4	0.0	47	0.0	5	0.4	0.0	0.4	0.0	0.4	1.2	6.0	0.1	5.0	-10	52	17	20	0.8	1.4	71	0.1			
8/02/2016	39	56	0.0	0.1	39	2.1	0.0	5.7	73	0.1	0.1	0.0	377	0.0	3.6	0.1	92	0.0	5	0.6	0.0	0.3	0.0	0.3	1.6	6.3	0.3	5.0	38	63	15	22	1.4	2.5	88	0.3			
9/05/2016	62	29	0.1	0.0	62	1.5	0.0	6.8	92	0.0	0.0	0.0	490	0.0	3.8	0.2	47	0.0	7	0.5	0.0	0.0	0.0	0.0	0.7	6.3	0.2	5.0	22	77	11	22	0.7	0.8	74	0.1			
9/08/2016	46		0.0		46	1.2		5.6	85				425		3.5	0.2			6			0.1	0.0	0.1	0.9	6.0	0.2	5.0	103	67	16	19	0.8	0.6	104				
7/11/2016	70		0.1		70	2.1		6.9	110				514		2.6	0.2			7					0.0	0.0	0.0	1.2	6.2	0.2	5.0	128	80	12	20	1.2	1.9	94		
7/02/2017	53		0.1		52	1.8		5.5	78				435		2.6	0.2			5					0.0	0.0	0.0	1.1	6.1	0.2	5.0	110	66	17	23	1.1	1.6	110		
8/05/2017	61	28	0.0	0.1	61	2.1	0.0	6.3	93	0.0	0.0	0.0	459	0.0	3.0	0.1	54	0.0	6	0.5	0.0	0.0	0.0	0.0	0.7	6.1	0.2	5.0	154	73	14	21	0.7	0.7	66	0.1			
8/08/2017	50		0.0		50	1.5		5.8	90				482		3.8	0.2			6					0.0	0.0	0.0	0.9	5.8	0.2	5.0	217	73	13	19	0.9	0.6	48		1.3
7/11/2017	49		0.0		49	1.5		6.7	86				442		2.9	0.2			6					1.4	0.0	1.4	2.1	6.0	0.1	5.0	116	71	15	20	0.7	1.5	59		1.3
13/02/2018	33		0.0		33	2.4		4.7	80				386		2.7	0.1			5					0.1	0.0	0.1	0.7	6.0	0.1	5.0	101	60	25	22	0.6	2.9	73		1.8
8/05/2018	59	14	0.1	0.0	59	2.4	0.0	6.2	97	0.0	0.0	0.0	471	0.0	3.3	0.2	26	0.0	6	0.4	0.0	0.3	0.0	0.3	0.3	6.2	0.0	2.2	63	71	15	21	0.1	1.0	52	0.1	1.2		

14/08/2018	46		0.0		46	1.0		5.6	88				431		5.2	0.1			6			0.0	0.0	0.0	0.5	6.1		0.1	2.2	224	71	17	19	0.5	5.9	45		1.7
13/11/2018	59		0.0		59	1.0		6.3	100				472		3.1	0.2			6			0.0	0.0	0.0	0.6	6.2		0.1	2.2	57	74	14	20	0.5	0.8	65		1.7
12/02/2019	62		0.1		62	2.4		6.0	89				459		2.4	0.2			6			0.0	0.0	0.0	1.2	6.3	0.0	0.2	2.4	59	73	16	22	1.1	1.1	73		2.2
14/05/2019	54	13	0.0	0.0	54	1.2	0.0	5.9	85	0.0	0.0	0.0	434	0.0	3.5	0.2	35	0.0	6	0.3	0.0	0.0	0.0	0.0	0.4	6.2	0.0	0.3	2.3	49	74	18	21	0.4	0.8	48	0.2	1.4
13/08/2019	48		0.0		48	1.0		5.4	86				413		4.7	0.2			6			0.0	0.0	0.0	0.8	6.3	0.0	0.3	2.1	297	69	18	18	0.8	1.1	38		1.6
12/11/2019	67		0.1		67	2.1		5.6	73				430		2.7	0.1			6			0.0	0.0	0.0	0.9	6.3	0.0	0.2	2.1	50	68	19	20	0.9	1.0	59		2.5
25/02/2020	29		0.0		29	1.0		6.1	62				410		3.2	0.1			6			0.5	0.0	0.5	1.1	5.9	0.0	0.2	2.4	57	55	57	23	0.6	1.6	58		1.4
12/05/2020	14	24	0.0	0.0	14	2.4	0.0	4.3	40	0.0	0.0	0.0	355	0.0	3.2	0.1	63	0.0	5	0.5	0.0	0.0	0.0	0.7	5.3	0.0	0.1	2.3	192	54	85	20	0.7	1.8	72	0.1	1.8	
11/08/2020	40		0.0		40	1.5		5.0	65				392		3.5	0.1			5			0.0	0.0	0.0	0.8	5.9	0.0	0.2	2.3	129	61	38	19	0.8	1.2	42		1.4
10/11/2020	33		0.0		33	1.0		4.5	56				370		3.1	0.1			5			0.0	0.0	0.0	0.8	5.6	0.0	0.2	2.4	124	56	51	19	0.7	1.7	55		2.0
9/02/2021	64		0.1		64	1.0		5.4	70				436		2.9	0.2			6			0.0	0.0	0.0	0.7	6.0	0.0	0.1	2.3	46	65	21	21	0.7	1.1	72		1.7
11/05/2021	44	22	0.0	0.0	44	1.0	0.0	5.3	82	0.0	0.0	0.0	404	0.0	3.1	0.2	35	0.0	6	0.4	0.0	0.0	0.0	0.8	6.0	0.0	0.1	2.4	138	66	22	21	0.8	1.4	56	0.1	1.3	
10/08/2021	50		0.0		50	1.0		5.2	77				417		3.9	0.1			6			0.0	0.0	0.0	0.4	6.1	0.0	0.1	2.4	138	63	18	18	0.4	0.9	45		1.5
8/11/2021	62		0.0		62	1.2		5.8	94				446		3.1	0.2			6			0.0	0.0	0.0	0.8	6.2	0.0	0.2	2.3	33	66	17	19	0.8	1.3	63		1.4
8/02/2022	50		0.0		50	1.5		4.8	73				372		3.5	0.1			5			0.0	0.1	0.0	1.0	6.1	0.0	0.2	2.0	64	52	13	21	1.0	2.0	69		1.1
10/05/2022	50	34	0.0	0.0	50	2.4	0.0	6.0	97	0.0	0.0	0.0	453	0.0	2.8	0.2	57	0.0	6	0.5	0.0	0.0	0.0	1.2	6.1	0.0	0.2	2.3	65	67	17	20	1.2	1.5	59	0.2	1.0	
9/08/2022	53		0.0		53	<1.0		6.0	100				484		3.7	0.2			6			0.0	0.0	0.0	1.1	6.2	0.0	0.4	2.3	80	74	13	18	1.1	0.9	55		1.4
8/11/2022	62		0.0		62	2.1		6.4	110				513		3.0	0.2			7			0.0	0.0	0.0	0.9	6.2	0.0	0.3	2.5	50	72	13	18	0.9	1.2	62		1.3
2022 Min	50	34	0.0	0.0	50	1.5	0.0	4.8	73	0.0	0.0	0.0	372	0.0	2.8	0.1	57	0.0	5	0.5	0.0	0.0	0.0	0.9	6.1	0.0	0.2	2.0	50	52	13	18	0.9	0.9	55	0.2	1.0	
2022 Max	62	34	0.0	0.0	62	2.4	0.0	6.4	110	0.0	0.0	0.0	513	0.0	3.7	0.2	57	0.0	7	0.5	0.0	0.0	0.1	0.0	1.2	6.2	0.0	0.4	2.5	80	74	17	21	1.2	2.0	69	0.2	1.4
2022 Mean	54	34	0.0	0.0	54	2.0	0.0	5.8	95	0.0	0.0	0.0	456	0.0	3.3	0.2	57	0.0	6	0.5	0.0	0.0	0.0	1.1	6.2	0.0	0.3	2.3	65	66	14	19	1.0	1.4	61	0.2	1.2	
Long-term Average	53	46	0.1	0.1	44	1.9	0.0	6.1	93	0.0	0.0	0.0	468	0.0	3.0	0.2	90	0.0	6	0.6	0.0	0.1	0.0	1.0	6.2	0.0	0.2	4.0	72	71	19	20	0.9	1.4	73	0.2	1.5	

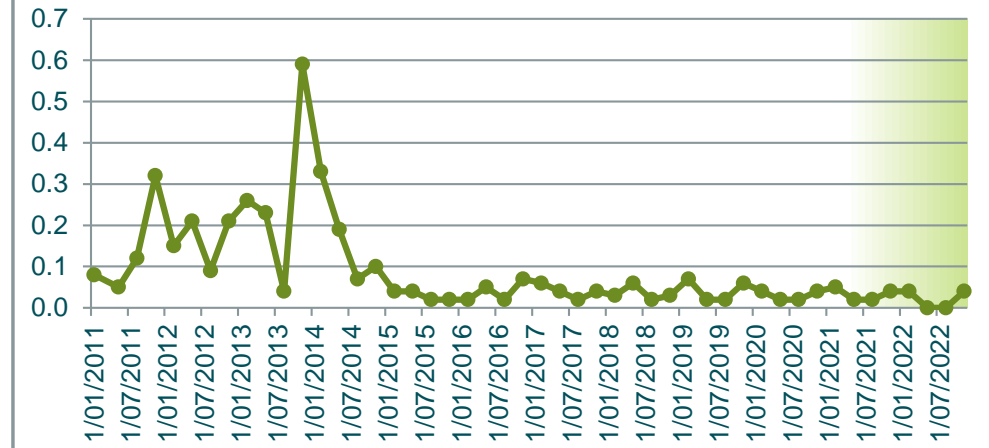
Alkalinity
mg/L as CaCO3



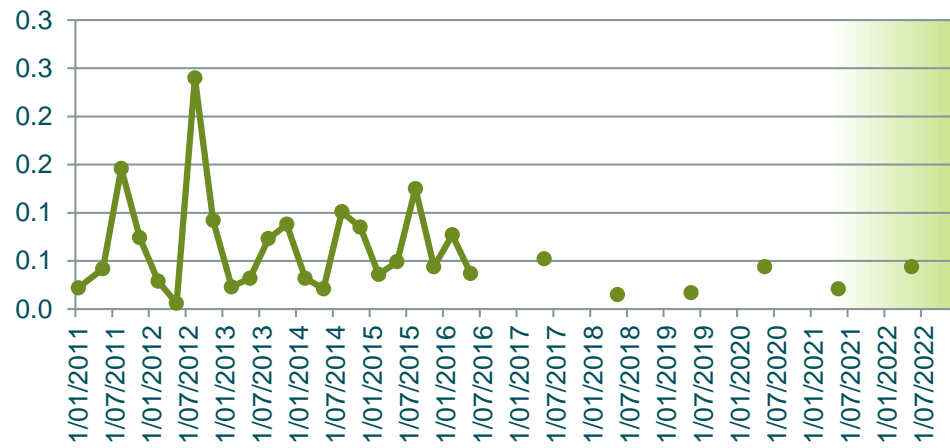
Aluminium (Total)
mg/L



Ammonia
mg/L



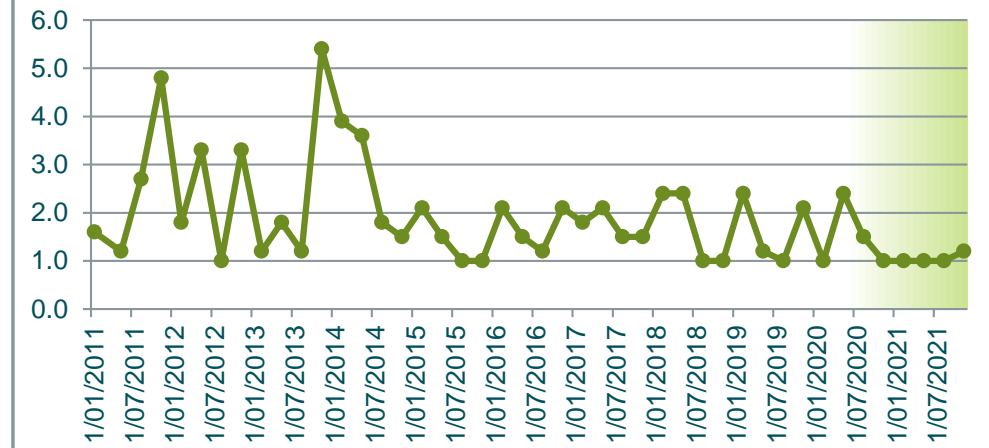
Arsenic (Total)
mg/L



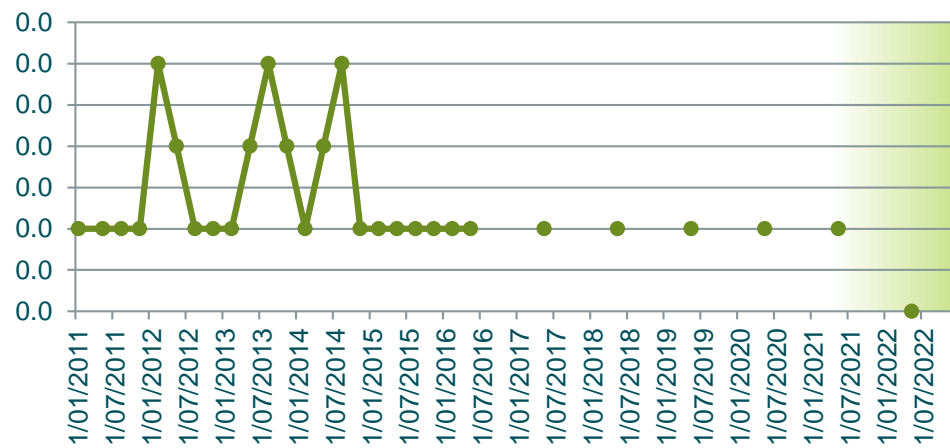
Bicarbonate HCO3
mg/L



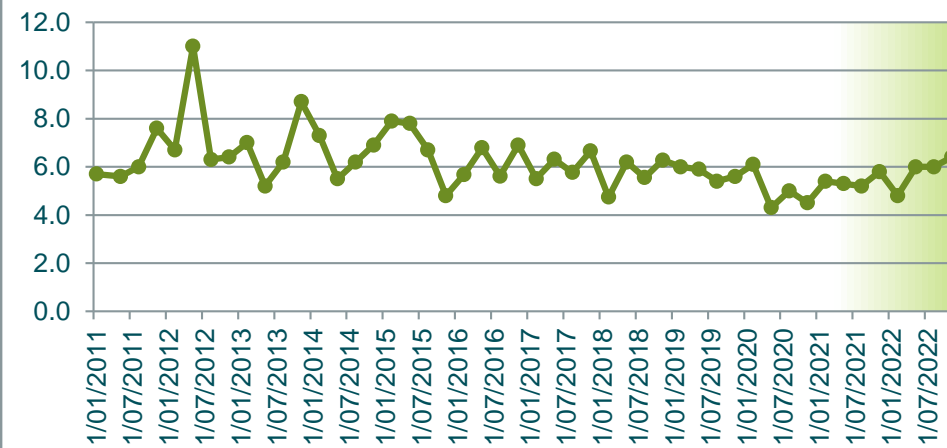
BOD5
mg/L



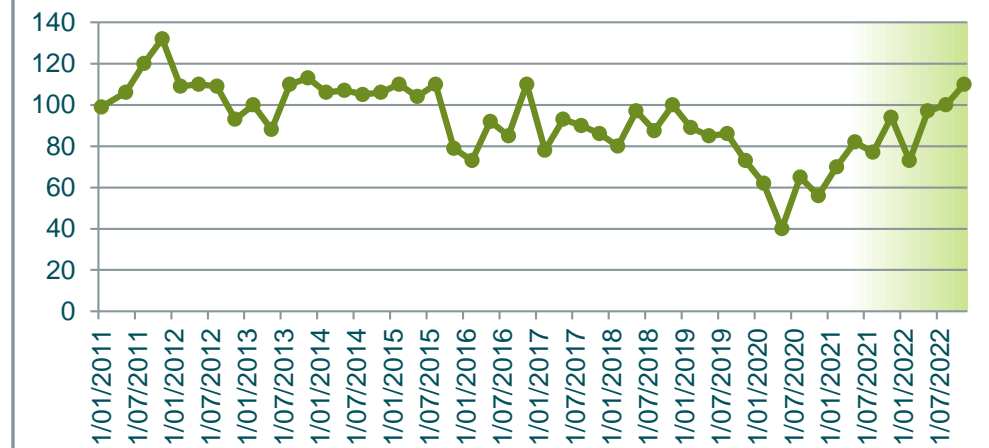
Cadmium (Total)
mg/L



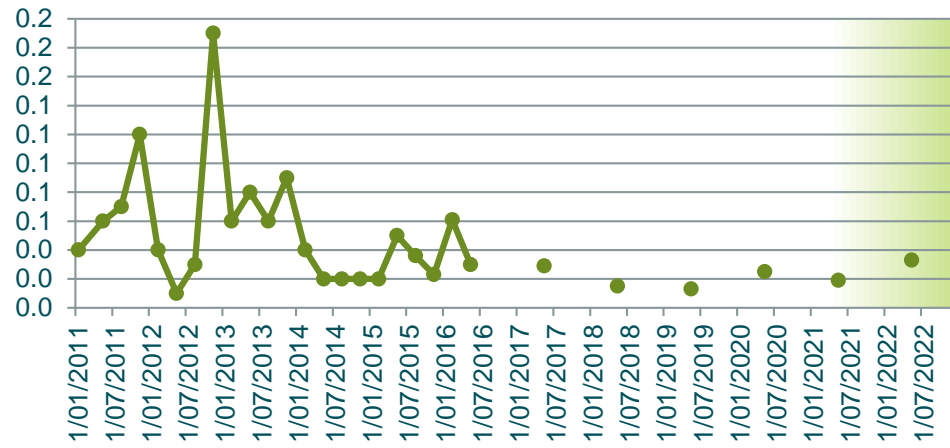
Calcium (Total)
mg/L



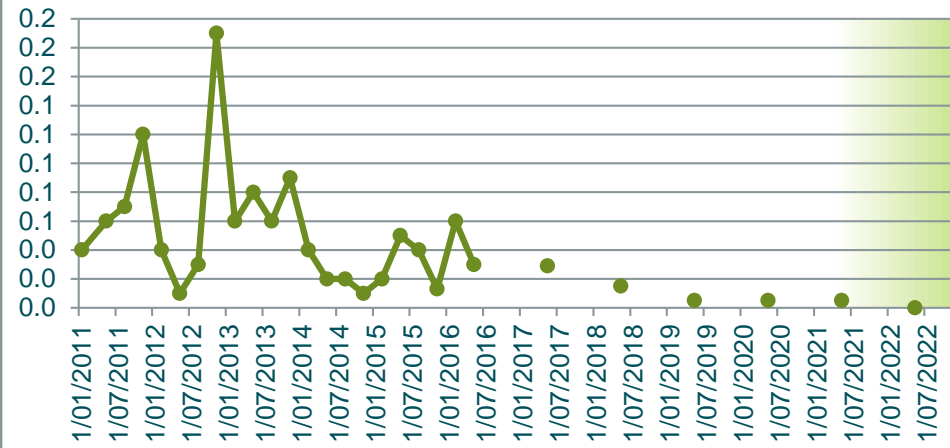
Chloride
mg/L



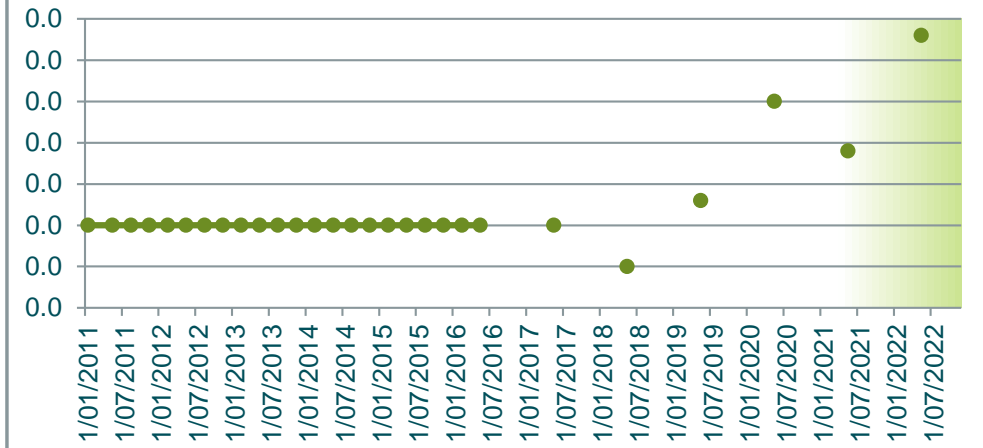
Chromium (Total) mg/L



Chromium 3 mg/L



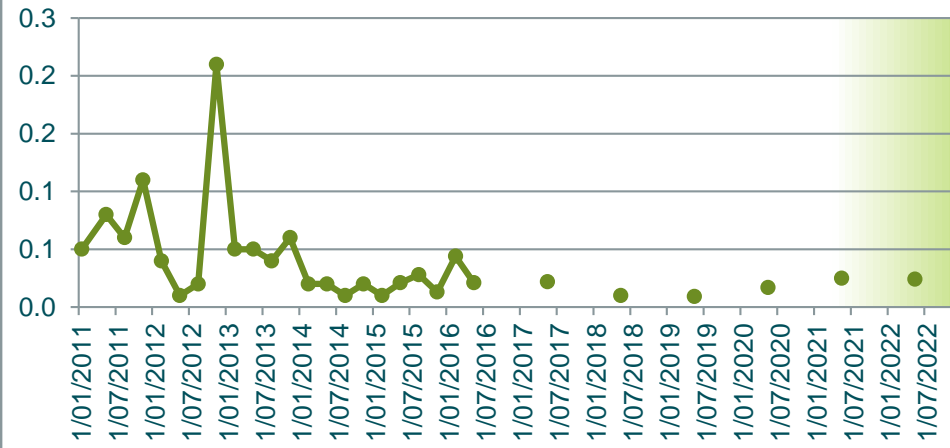
Chromium 6 mg/L



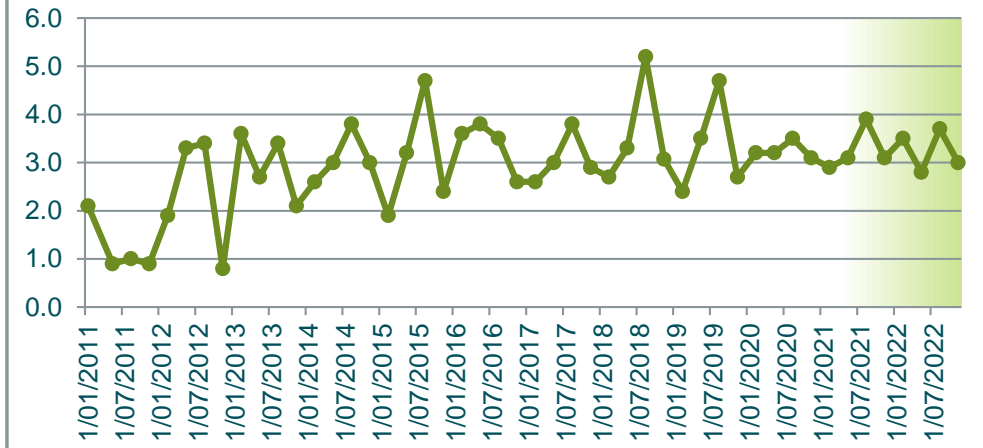
Conductivity µScm-1



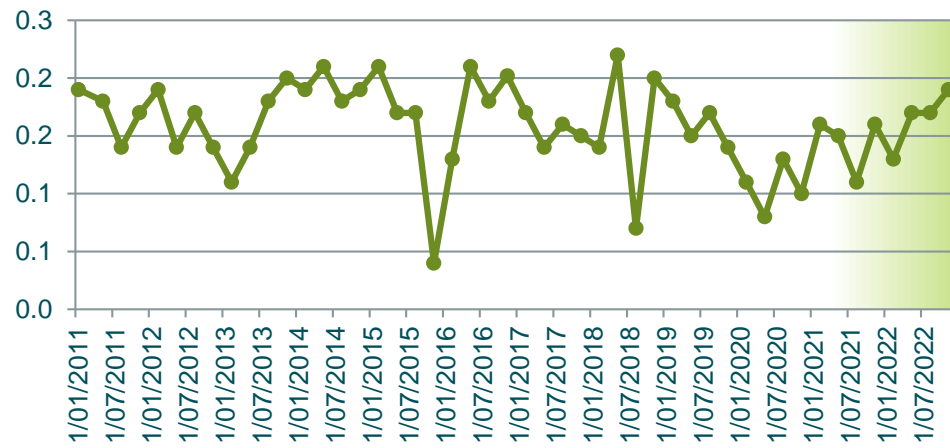
Copper (Total) mg/L



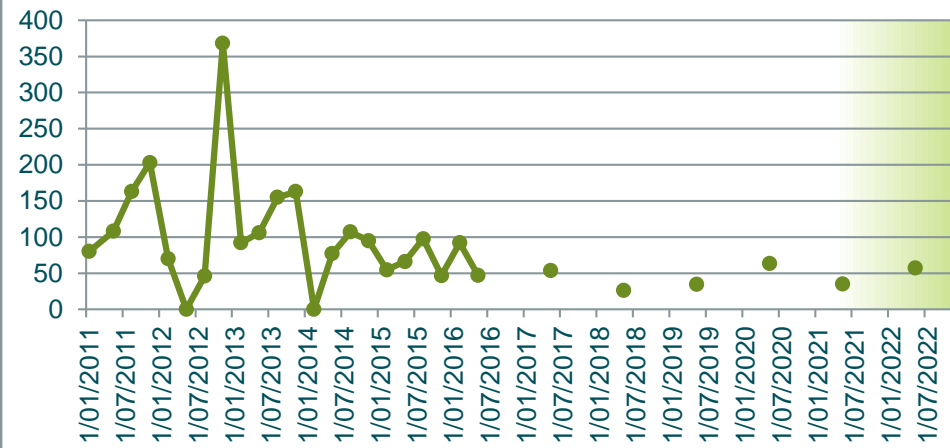
DO (Membrane Electrode) mg/L



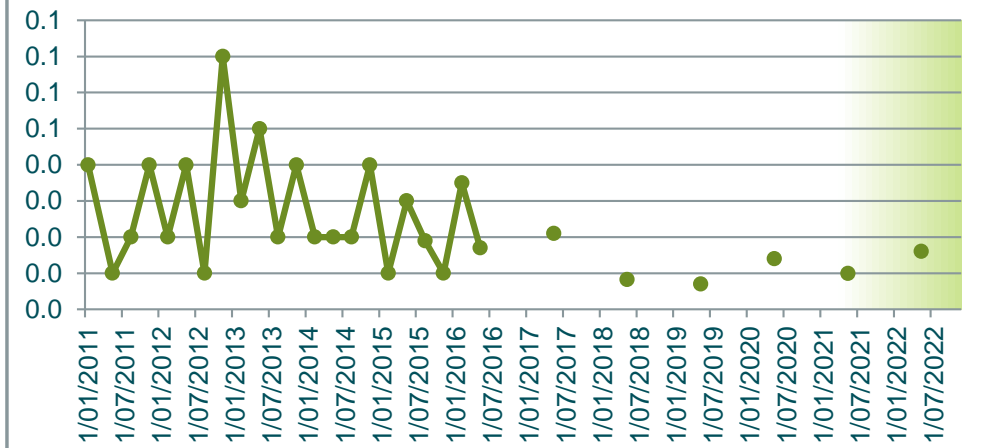
Flouride mg/L



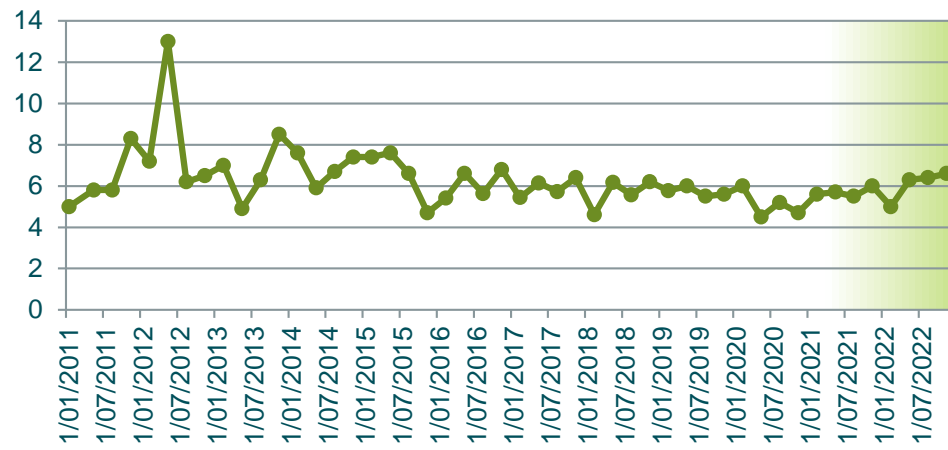
Iron Total mg/L



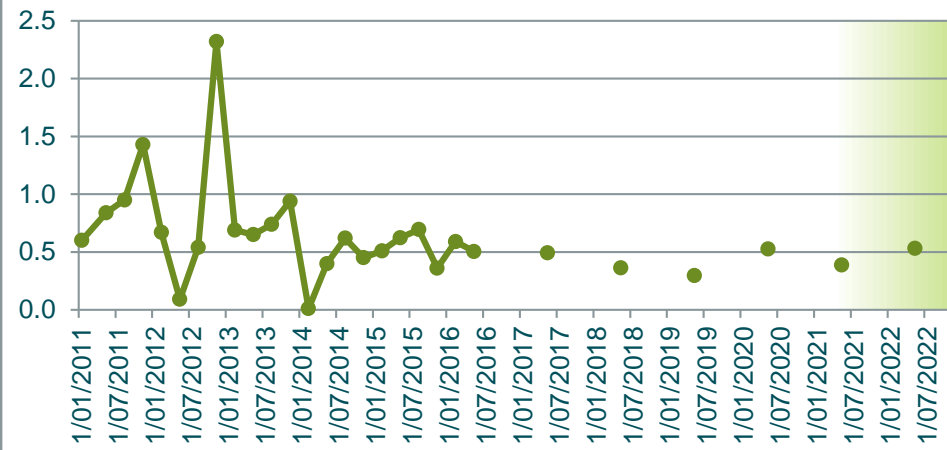
Lead (Total) mg/L



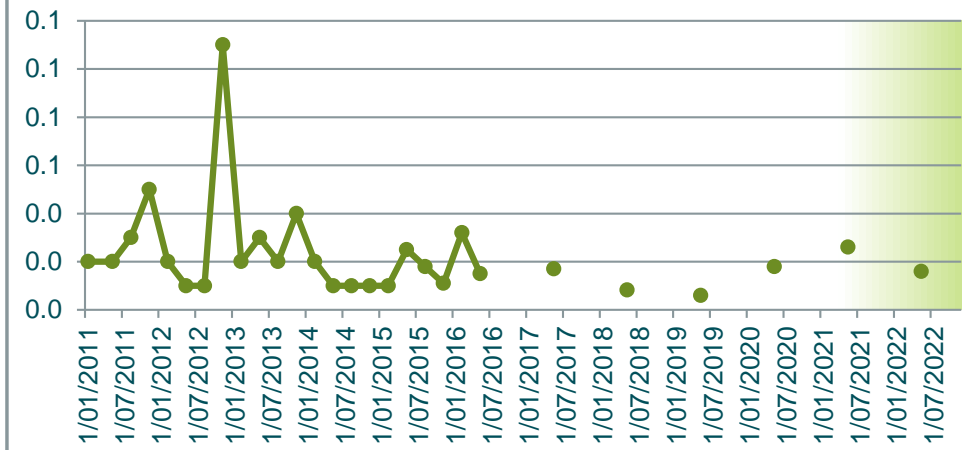
Magnesium (Total) mg/L



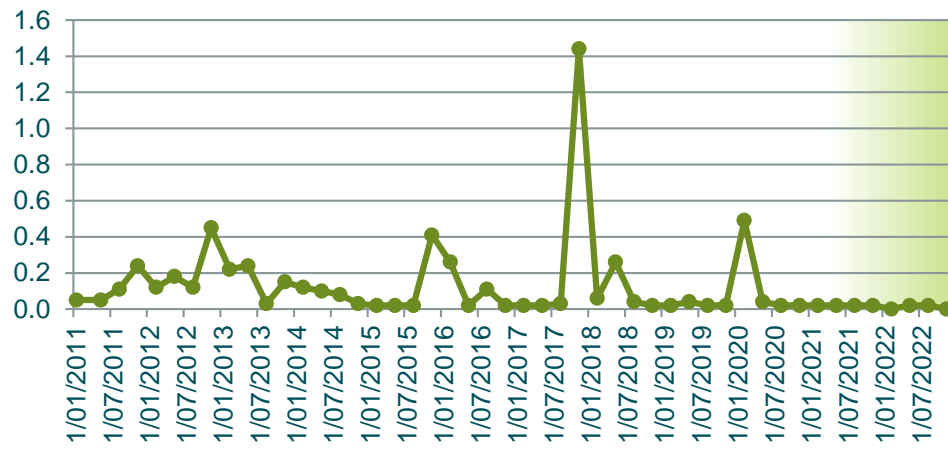
Manganese Total mg/L



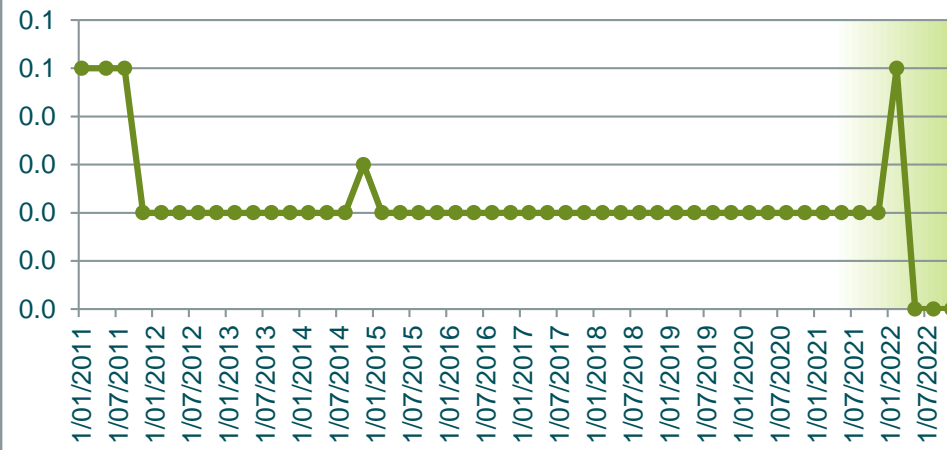
Nickel (Total) mg/L



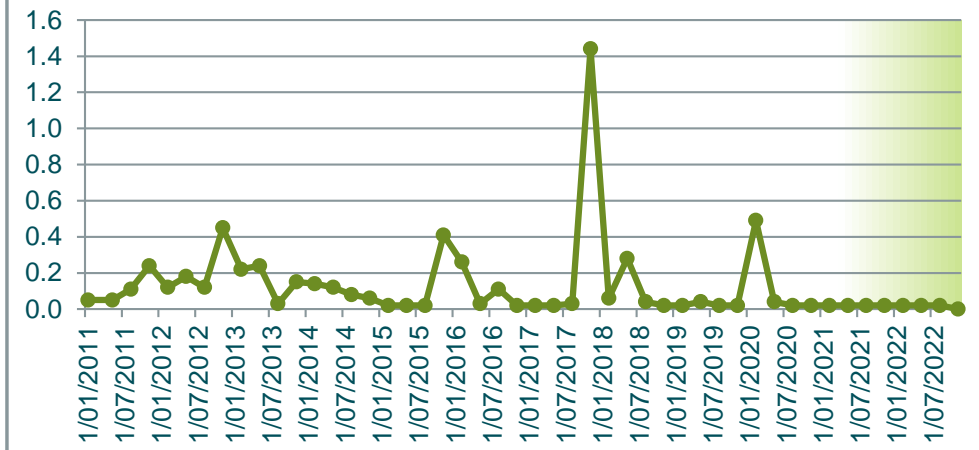
Nitrate N mg/L



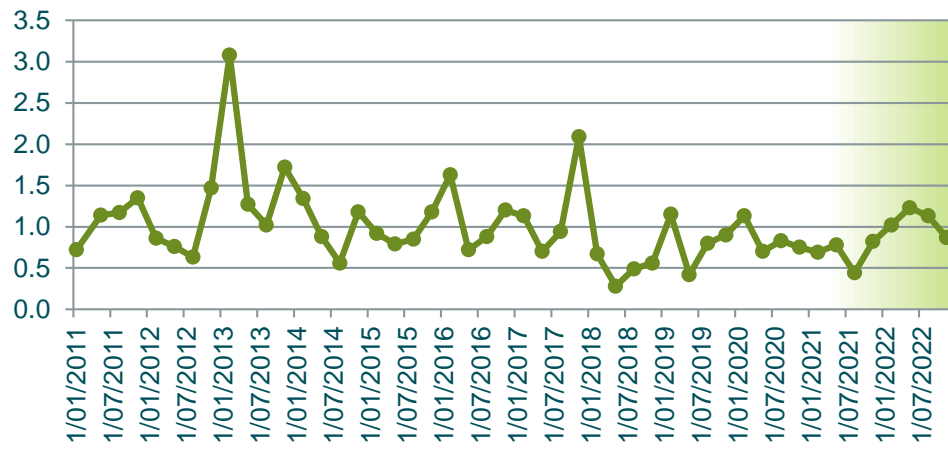
Nitrite N mg/L



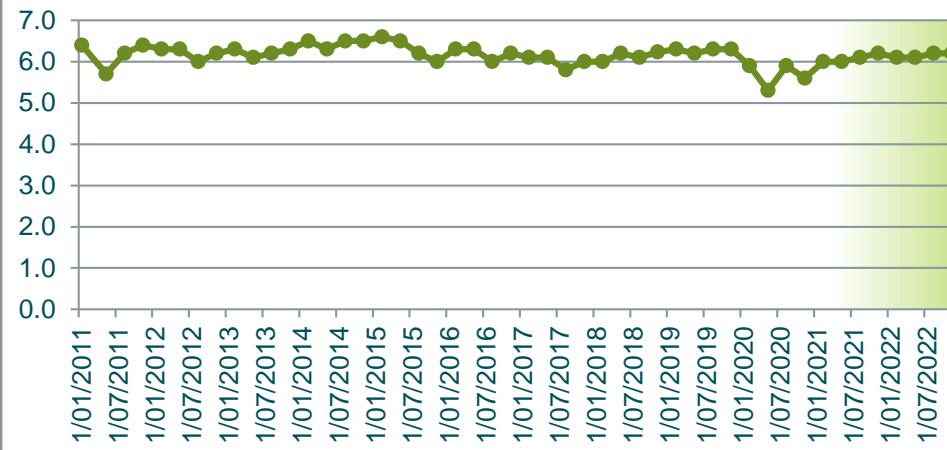
Nitrogen Oxidised mg/L



Nitrogen Total mg/L



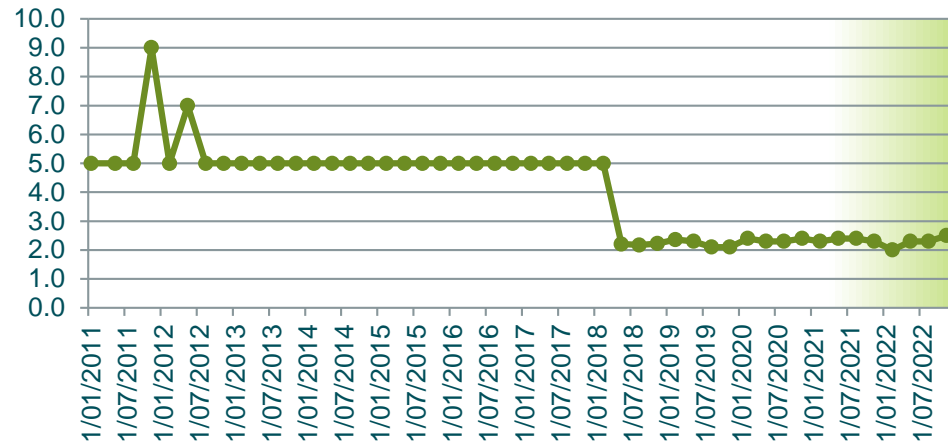
pH pH units



Phosphorus Total mg/L



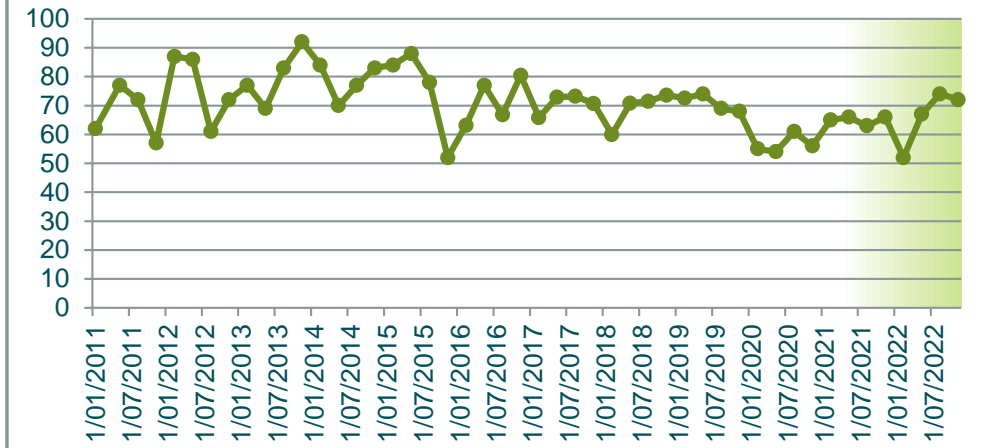
**Potassium Total
mg/L**



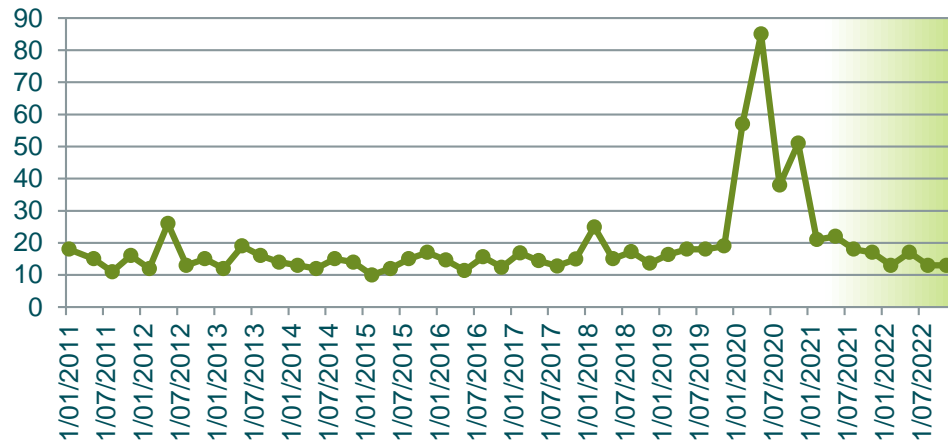
**Redox Potential
mV**



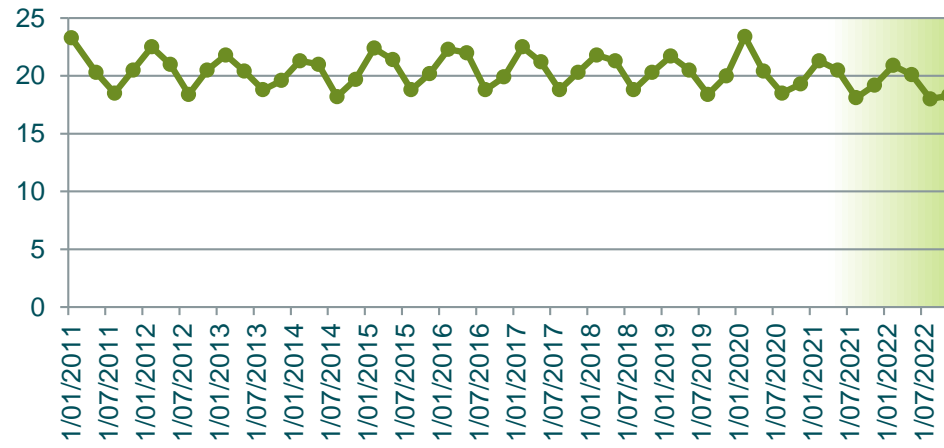
**Sodium (Total)
mg/L**



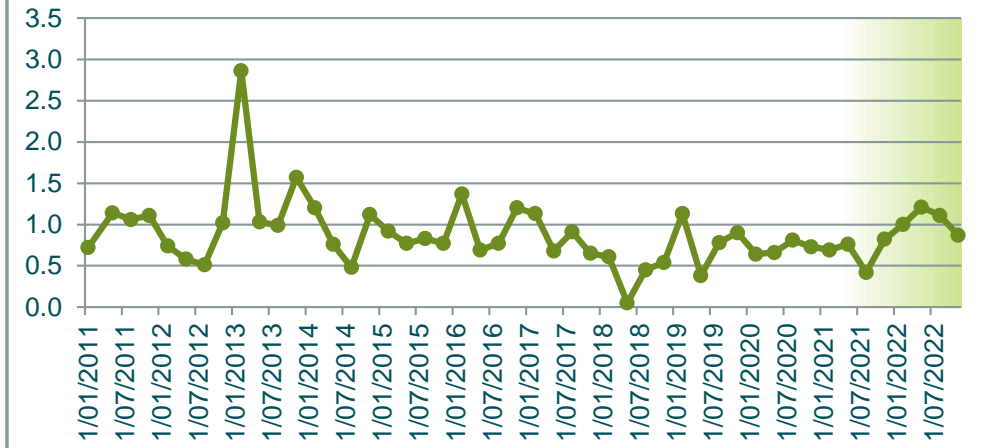
**Sulphate
mg/L**



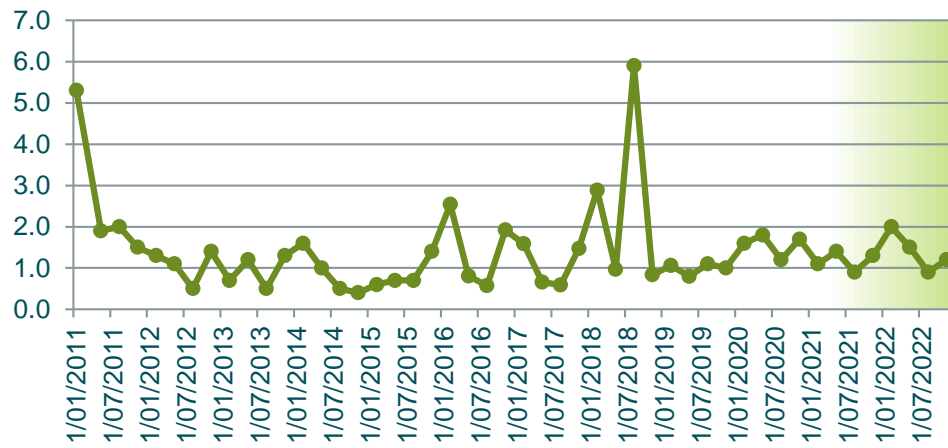
**Temperature
C**



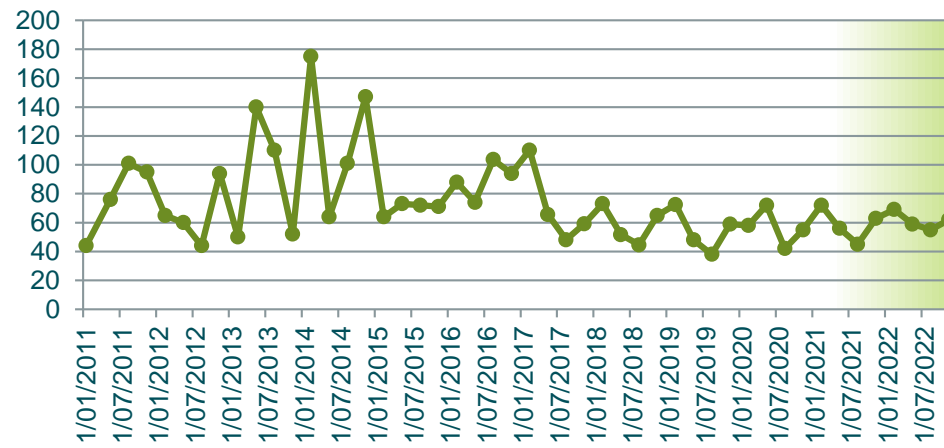
**TKN
mg/L**



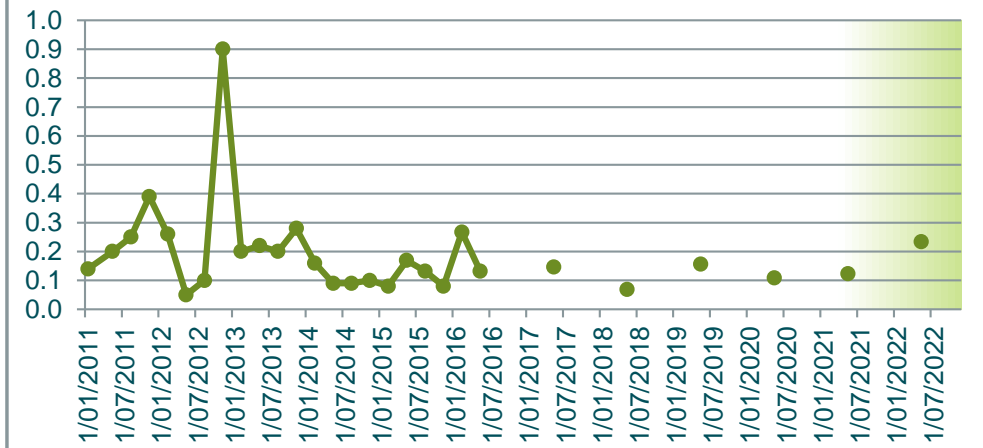
**TOC
mg/L**



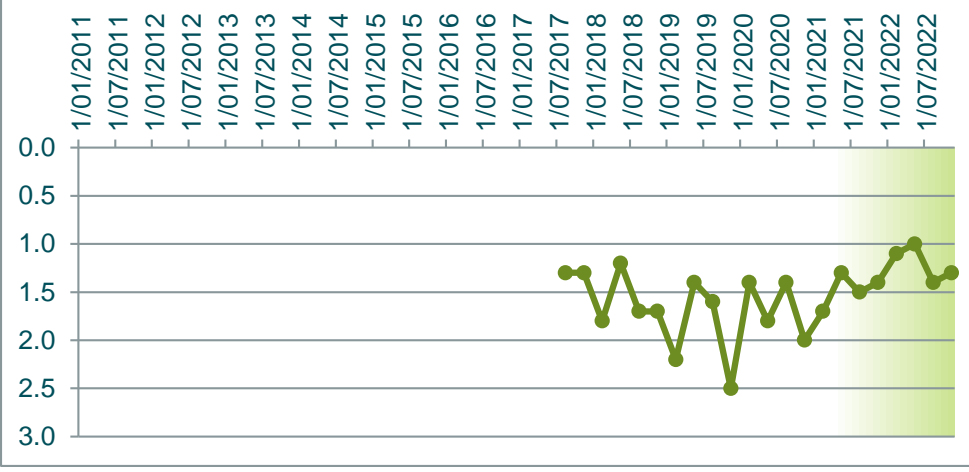
**Total Acidity
mg/L CaCO3**



**Zinc (Total)
mg/L**



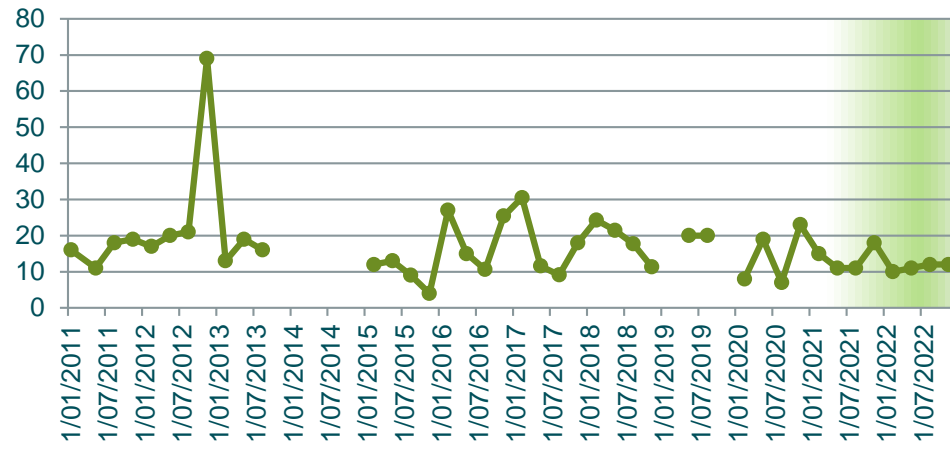
Depth to Groundwater m



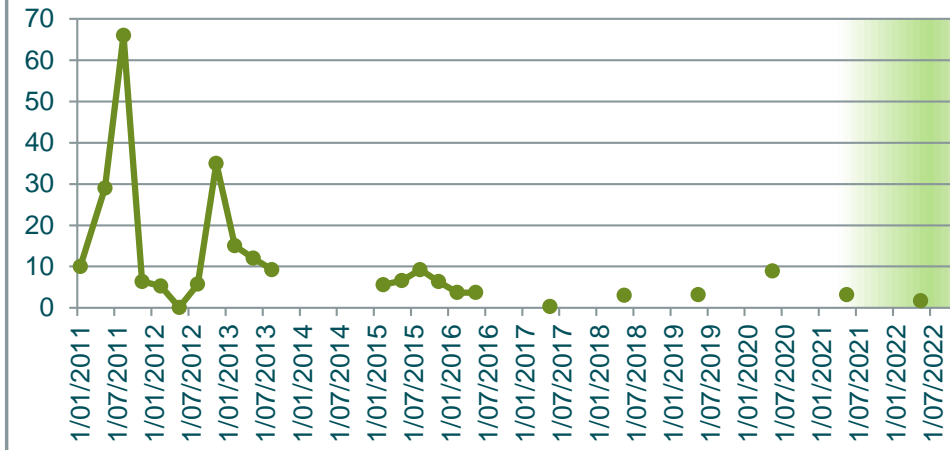
Depth to Groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH pH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity uS/cm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	BOD5 mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW9		
31/01/2011	16	10	0.1	0.0	10	6.6	0.0	11	185	0.0	0.0	0.0	639	0.0	2.4	0.0	13	0.0	9	0.4	0.0	0.1	0.1	0.1	0.4	5.5	0.2	5.0	103	67	38	23	0.4	6	56	0.1				
10/05/2011	11	29	0.1	0.0	7	2.1	0.0	20	324	0.0	0.0	0.0	121	0.1	3.0	0.0	25	0.1	21	0.8	0.0	0.1	0.1	0.1	1.0	5.0	0.2	5.0	100	155	42	21	1.0	4	52	0.1				
9/08/2011	18	66	0.1	0.0	11	3.3	0.0	11	140	0.0	0.0	0.0	680	0.1	3.0	0.1	51	0.1	10	0.4	0.0	0.1	0.1	0.1	0.9	5.8	0.2	5.0	240	82	50	19	0.9	8	108	0.1				
8/11/2011	19	6	0.0	0.0	12	5.7	0.0	13	150	0.0	0.0	0.0	576	0.0	2.7	0.1	13	0.0	11	0.3	0.0	0.0	0.0	0.2	5.6	0.1	7.0	95	59	65	22	0.2	4	81	0.1					
6/02/2012	17	5	0.0	0.0	10	3.0	0.0	13	159	0.0	0.0	0.0	679	0.0	2.2	0.0	6	0.0	12	0.4	0.0	0.0	0.0	0.1	0.3	5.3	0.1	5.0	146	98	54	22	0.3	3	68	0.1				
8/05/2012	20	0	0.1	0.0	12	2.7	0.0	20	270	0.0	0.0	0.0	110	0.0	3.8	0.1	4	0.0	23	0.4	0.0	0.1	0.0	0.1	0.6	6.0	0.1	5.0	256	154	45	21	0.5	6	68	0.0				
6/08/2012	21	6	0.0	0.0	13	2.1	0.0	18	252	0.0	0.0	0.0	990	0.0	2.6	0.0	14	0.0	18	0.7	0.0	0.0	0.0	0.4	5.4	0.2	5.0	186	108	49	20	0.4	4	64	0.0					
13/11/2012	69	35	0.1	0.0	42	2.1	0.0	11	160	0.0	0.0	0.0	854	0.1	4.0	0.1	37	0.1	16	0.9	0.0	0.1	0.0	0.1	0.9	6.2	0.4	5.0	19	112	48	21	0.8	4	94	0.2				
13/02/2013	13	15	0.0	0.0	8	1.2	0.0	35	450	0.0	0.0	0.0	170	0.0	2.9	0.1	14	0.0	34	1.7	0.0	0.3	0.0	0.3	0.8	5.3	0.1	5.0	65	206	60	22	0.5	6	71	0.1				
14/05/2013	19	12	0.1	0.0	12	3.0	0.0	26	320	0.0	0.0	0.0	121	0.0	2.8	0.0	11	0.0	23	1.1	0.0	0.1	0.0	0.1	0.6	5.5	0.0	5.0	4	159	60	21	0.5	4	149	0.1				
6/08/2013	16	9	0.0	0.0	10	2.1	0.0	28	340	0.0	0.0	0.0	122	0.0	3.4	0.0	14	0.0	25	1.0	0.0	0.0	0.0	0.5	5.4	0.2	5.0	59	171	74	19	0.5	4	143	0.0					
12/11/2013																																								
11/02/2014																																								
13/05/2014																																								
12/08/2014																																								
10/11/2014																																								
9/02/2015	12	6	0.0	0.0	7	3.3	0.0	30	520	0.0	0.0	0.0	175	0.0	1.7	0.0	7	0.0	30	1.3	0.0	0.0	0.0	0.0	1.0	5.4	0.1	5.0	46	216	64	23	1.0	5	94	0.1				
11/05/2015	13	7	0.0	0.0	8	4.5	0.0	28	375	0.0	0.0	0.0	136	0.0	3.5	0.1	6	0.0	27	1.1	0.0	0.0	0.0	0.0	0.7	5.3	0.1	5.0	66	203	62	22	0.7	6	91	0.1				
11/08/2015	9	9	0.0	0.0	9	3.0	0.0	45	610	0.0	0.0	0.0	209	0.0	3.7	0.0	12	0.0	43	1.7	0.0	0.1	0.0	0.1	1.1	5.2	0.1	5.0	124	296	94	19	1.0	7	128	0.1				
10/11/2015	4	6	0.0	0.0	4	1.0	0.0	57	820	0.0	0.0	0.0	262	0.0	4.1	0.1	4	0.0	58	0.9	0.0	0.0	0.0	0.0	0.6	4.8	0.1	5.0	132	346	83	20	0.6	9	72	0.1				
8/02/2016	27	4	0.0	0.0	27	1.0	0.0	14	190	0.0	0.0	0.0	826	0.0	3.3	0.0	5	0.0	13	0.6	0.0	0.1	0.0	0.1	0.6	5.7	0.2	5.0	98	120	63	22	0.5	5	128	0.1				
9/05/2016	15	4	0.0	0.0	15	7.8	0.0	38	530	0.0	0.0	0.0	186	0.0	3.1	0.0	7	0.0	38	1.6	0.0	0.1	0.0	0.1	0.8	5.4	0.1	5.0	102	256	72	23	0.8	10	120	0.1				
9/08/2016	11		0.0		11	1.2		48	660				232		3.3	0.1			49			0.1	0.0	0.1	0.5	5.0	0.0	5.0	43	315	91	19	0.4	5	168					
7/11/2016	25		0.0		25	1.8		14	194				827		3.2	0.0			13			0.0	0.0	0.0	0.5	5.5	0.1	5.0	335	131	69	20	0.5	4	108					
7/02/2017	31		0.0		30	1.0		6	80				493		3.5	0.0			6			0.0	0.0	0.0	0.4	5.6	0.1	5.0	193	77	63	22	0.3	2	143					
8/05/2017	12	0	0.1	0.0	12	1.2	0.0	61	860	0.0	0.0	0.0	288	0.0	3.4	0.0	1	0.0	62	0.3	0.0	0.0	0.0	0.0	0.7	5.0	0.0	5.0	194	362	101	22	0.7	8	101	0.0				
8/08/2017	9		0.0		9	1.5		50	675				244		3.4	0.0			49			0.1	0.0	0.1	1.0	5.0	0.1	5.0	270	323	79	19	0.9	8	91		2.2			
7/11/2017	18		0.0		18	4.2		28	425				152		3.9	0.0			26			0.1	0.0	0.1	0.6	5.3	0.1	5.0	290	203	68	21	0.5	4	78		2.5			
13/02/2018	24		0.0		24	2.1		13	198				884		3.8	0.0			13			0.0	0.0	0.0	0.4	5.6	0.1	5.0	138	133	73	22	0.4	4	95		3.2			
8/05/2018	21	3	0.1	0.0	21	2.1	0.0	75	107	0.0	0.0	0.0	351	0.0	3.3	0.1	13	0.0	77	3.1	0.0	0.0	0.0	0.1	5.3	0.0	2.7	94	478	109	22	0.1	11	132	0.1	2.2				

14/08/2018	18		0.0		18	1.8		33	450				1671		4.3	0.1			31			0.1	0.0	0.1	0.6	5.3		0.1	2.3	406	267	82	20	0.6	10	83		3.1		
13/11/2018	11		0.0		11	1.2		123	910				3080		3.2	0.1			118			0.0	0.0	0.0	0.5	5.2		0.0	4.4	177	721	222	20	0.5	8	89		2.6		
12/02/2019																																								
14/05/2019	20	3	0.0	0.0	20	4.5	0.0	28	370	0.0	0.0	0.0	1406	0.0	3.0	0.0	4	0.0	27	0.9	0.0	0.0	0.0	0.0	0.5	5.4		0.1	2.1	156	228	90	21	0.5	5	88	0.1	2.7		
13/08/2019	20		0.0		20	5.1		33	420				1574		4.0	0.0			31			0.0	0.0	0.0	0.3	5.4		0.1	2.1	383	234	93	19	0.3	6	80		2.8		
12/11/2019																																								
25/02/2020	8		0.0		8	5.1		58	870				2930		2.7	0.1			59			0.0	0.0	0.0	0.7	4.9	0.0	0.1	3.3	95	382	84	23	0.7	8	95		1.6		
12/05/2020	19	9	0.1	0.0	19	3.9	0.0	31	560	0.0	0.0	0.0	1876	0.0	2.9	0.1	10	0.0	32	1.7	0.0	0.0	0.0	0.9	5.3	0.0	0.1	2.3	91	260	65	21	0.9	6	86	0.1	2.7			
11/08/2020	7		0.0		7	1.0		93	1220				4068		3.4	0.1			91			0.0	0.0	0.0	0.8	4.9	0.0	0.1	3.1	185	569	157	19	0.8	11	70		2.0		
10/11/2020	23		0.0		23	1.0		11	220				871		3.2	0.1			11			0.0	0.0	0.0	0.4	5.5	0.0	0.1	1.6	219	131	58	20	0.4	3	64		2.9		
9/02/2021	15		0.0		15	1.2		76	1150				3864		2.9	0.1			80			0.0	0.0	0.0	0.6	5.0	0.0	0.0	3.1	-11	515	117	22	0.6	12	140		2.1		
11/05/2021	11	3	0.0	0.0	11	2.4	0.0	30	460	0.0	0.0	0.0	1644	0.0	3.0	0.1	5	0.0	31	1.3	0.0	0.0	0.0	0.4	5.2	0.0	0.0	2.4	86	225	77	21	0.4	5	97	0.0	1.6			
10/08/2021	11		0.0		11	1.0		46	710				2473		2.9	0.0			48			0.0	0.0	0.0	0.8	5.0	0.0	0.1	3.6	200	306	83	19	0.8	8	99		2.1		
8/11/2021	18		0.0		18	4.8		31	520				1735		3.8	0.0			32			0.0	0.0	0.0	0.6	5.3	0.0	0.1	2.6	153	228	79	20	0.6	6	90		2.2		
8/02/2022	10		0.0		10	1.0		70	1140				3725		2.6	0.1			73			0.0	0.0	0.0	0.8	5.0	0.0	0.0	2.7	145	445	119	22	0.8	13	110		1.7		
10/05/2022	11	2	0.0	0.0	11	1.2	0.0	45	730	0.0	0.0	0.0	2445	0.0	3.4	0.0	6	0.0	46	2.3	0.0	0.0	0.0	0.5	5.2	0.0	0.0	2.2	111	299	83	21	0.5	6	86	0.1	1.3			
9/08/2022	12		0.0		12	1.0		35	440				1819		3.2	0.0			36			0.0	0.0	0.0	0.7	5.1	0.0	0.3	2.9	181	243	80	19	0.7	6	110		1.7		
8/11/2022	12		0.0		12	1.0		54	1120				3799		3.3	0.1			56			0.0	0.0	0.0	0.6	5.1	0.0	0.1	2.9	108	348	88	19	0.6	10	110		2.0		
2022 Min	10	0	0.0	0.0	4	1.0	0.0	6	80	0.0	0.0	0.0	493	0.0	1.7	0.0	1	0.0	6	0.3	0.0	0.0	0.0	0.1	4.8	0.0	0.0	1.6	-11	59	38	19	0.1	2	52	0.0	1.3			
2022 Max	12	66	0.1	0.0	42	7.8	0.0	123	1220	0.0	0.0	0.0	4068	0.1	4.3	0.1	51	0.1	118	3.1	0.0	0.3	0.1	0.3	1.1	6.2	0.0	0.4	7.0	406	721	222	23	1.0	13	168	0.2	3.2		
2022 Mean	11	11	0.0	0.0	14	2.6	0.0	37	518	0.0	0.0	0.0	1836	0.0	3.2	0.0	12	0.0	37	1.1	0.0	0.0	0.0	0.6	5.3	0.0	0.1	4.1	148	250	79	21	0.6	6	98	0.1	2.3			
Long-term Average	17	11	0.0	0.0	14	2.6	0.0	37	518	0.0	0.0	0.0	1836	0.0	3.2	0.0	12	0.0	37	1.1	0.0	0.0	0.0	0.6	5.3	0.0	0.1	4.1	148	250	79	21	0.6	6	98	0.1	2.3			

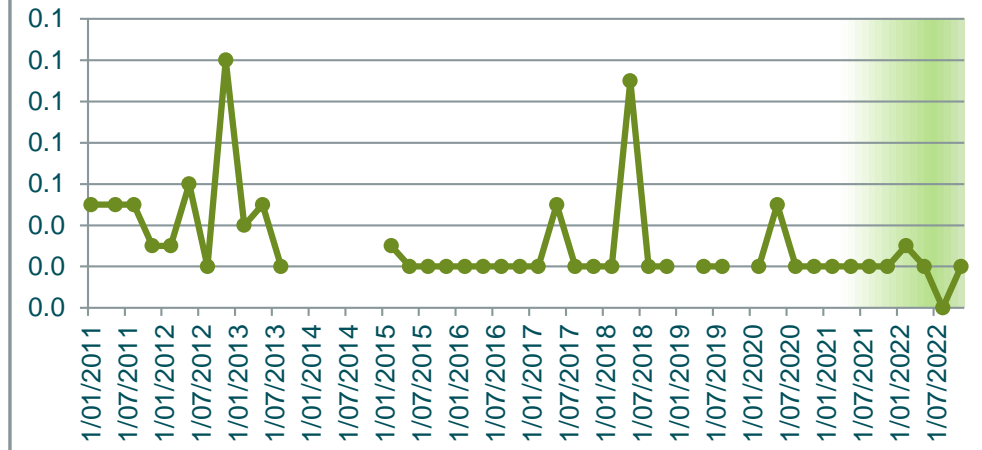
Alkalinity
mg/L as CaCO3



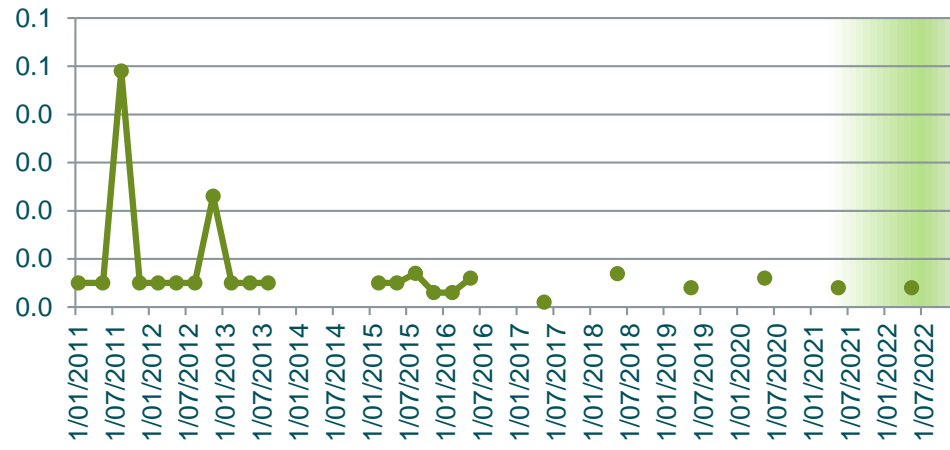
Aluminium (Total)
mg/L



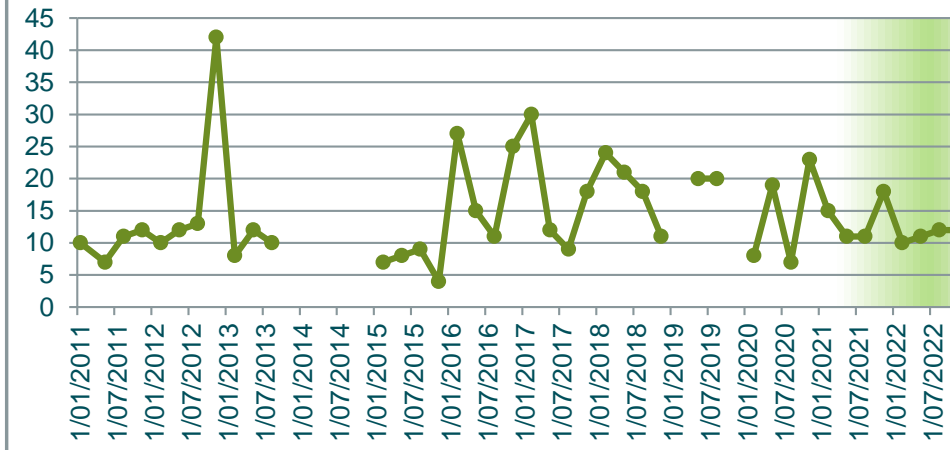
Ammonia
mg/L



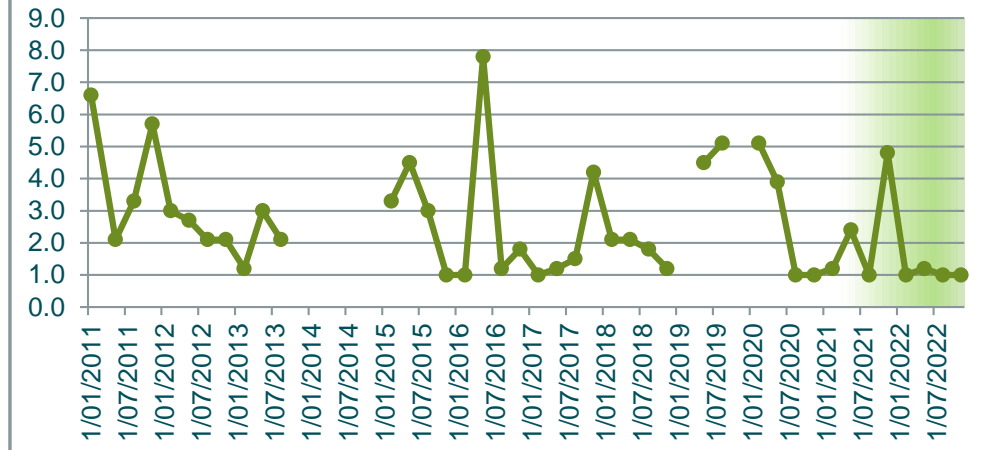
Arsenic (Total)
mg/L



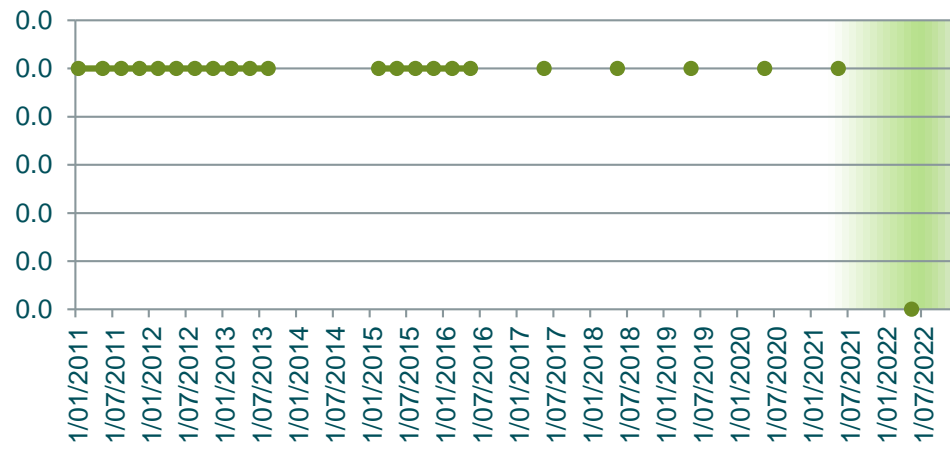
Bicarbonate HCO3
mg/L



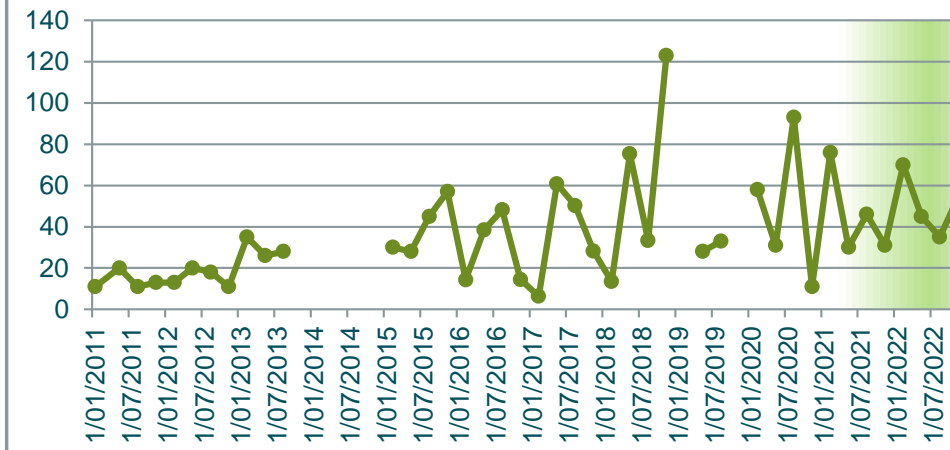
BOD5
mg/L



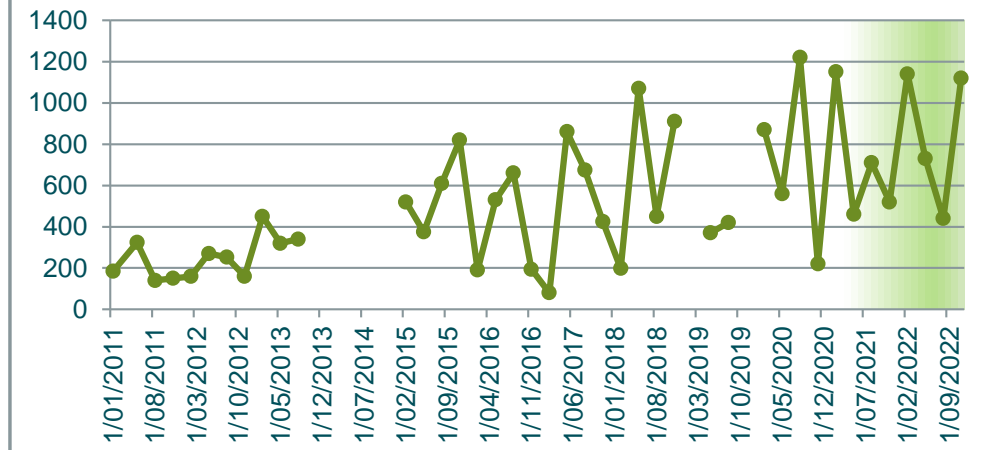
Cadmium (Total)
mg/L

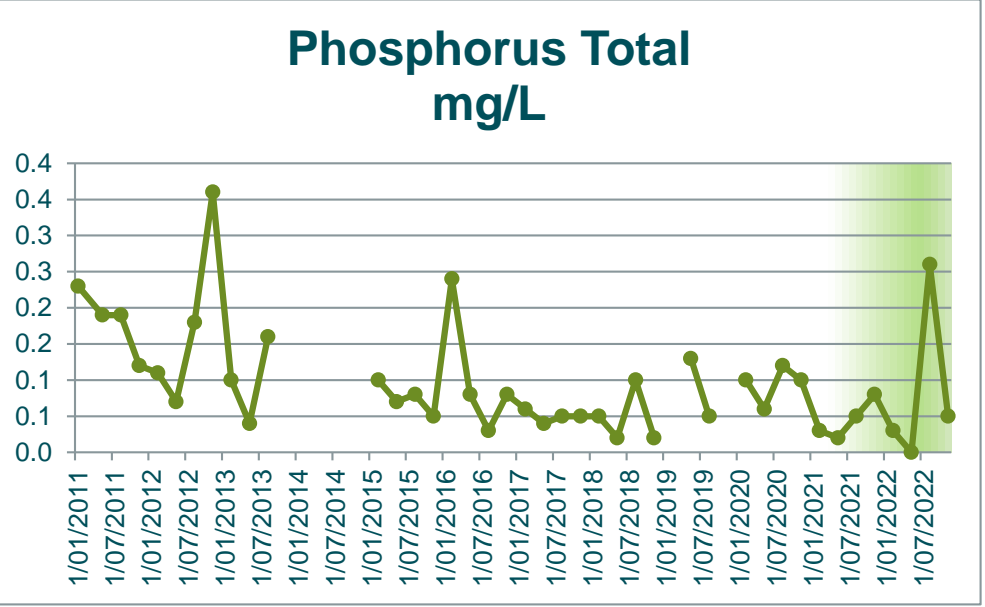
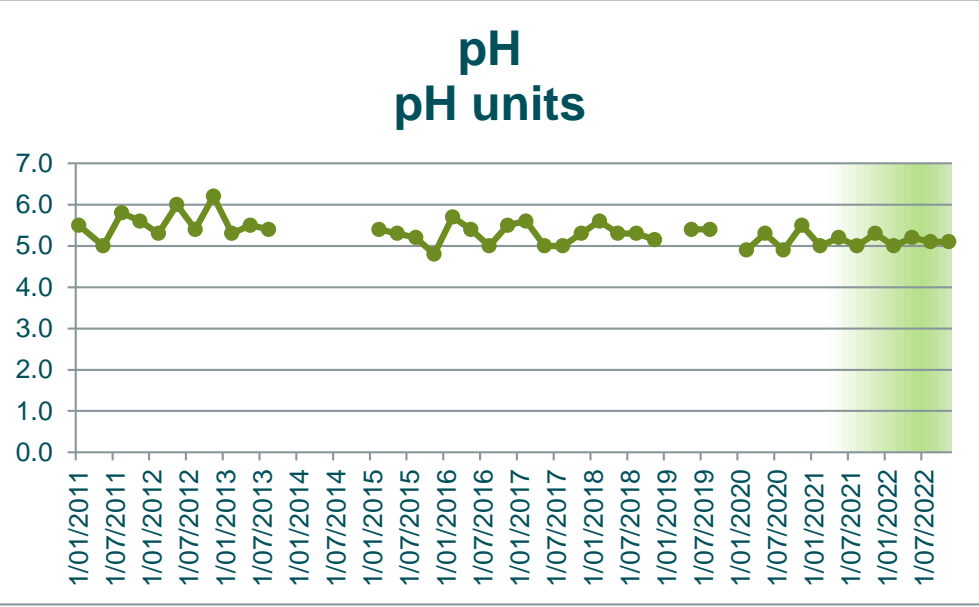
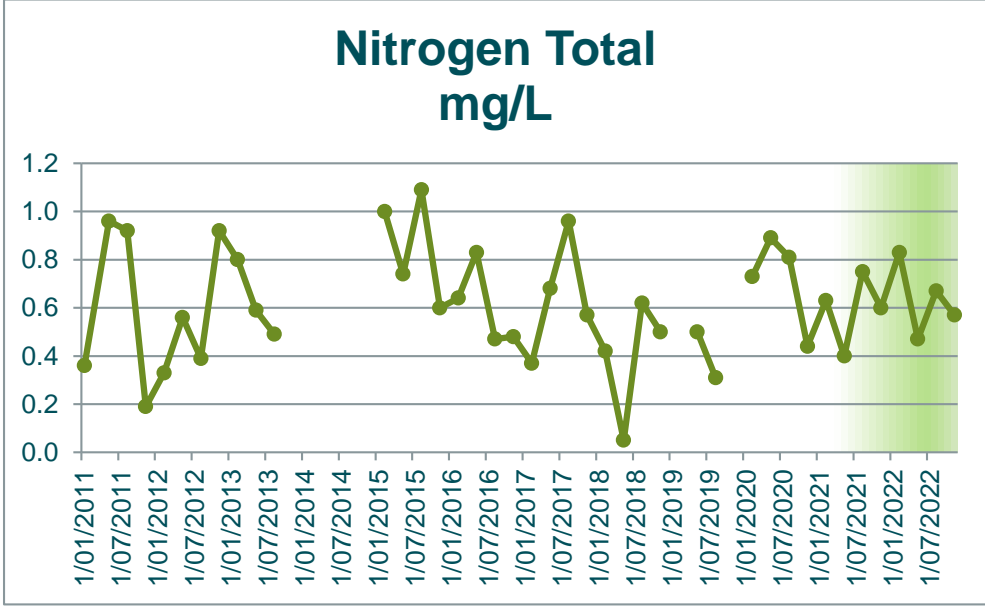
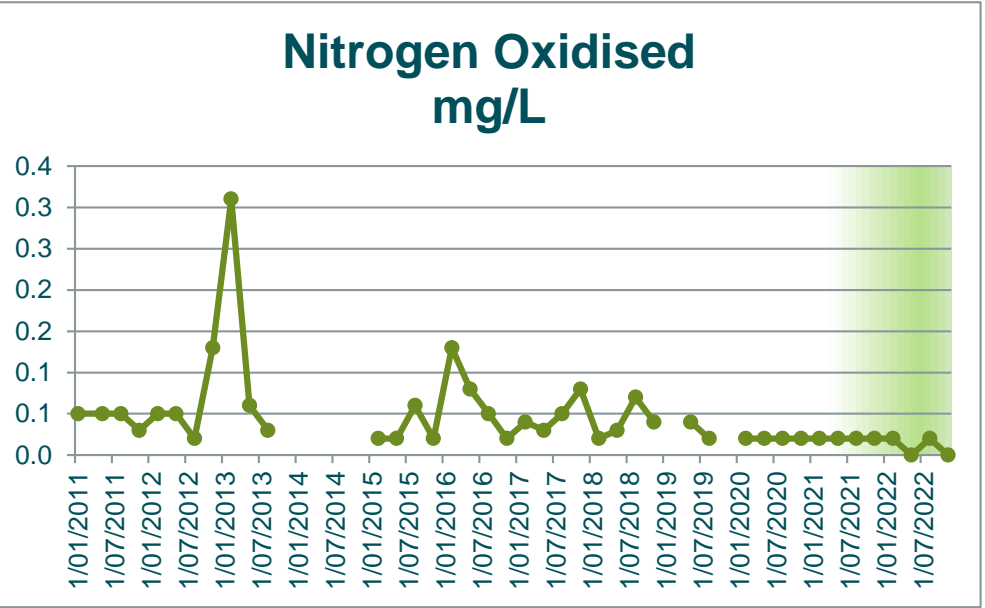
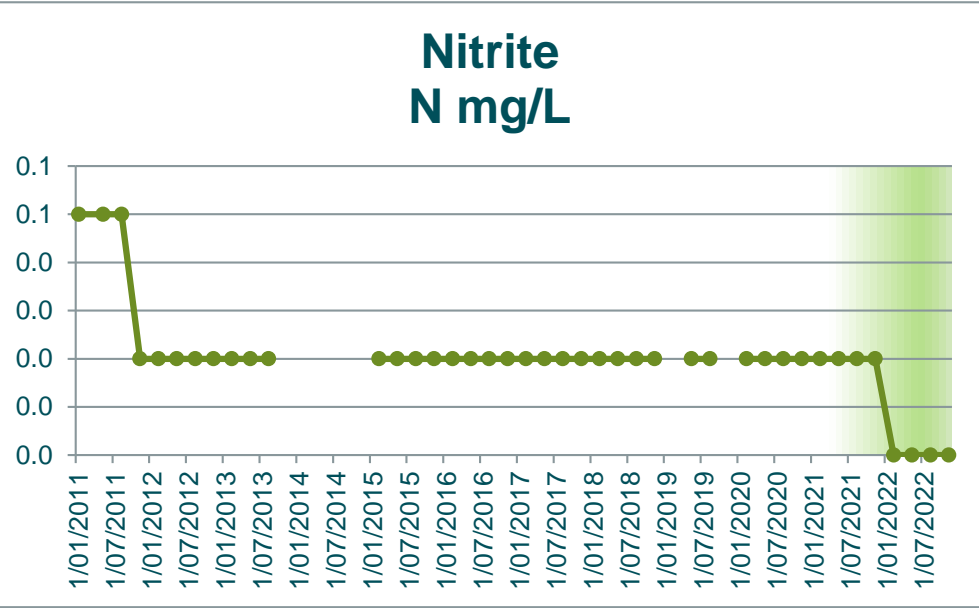
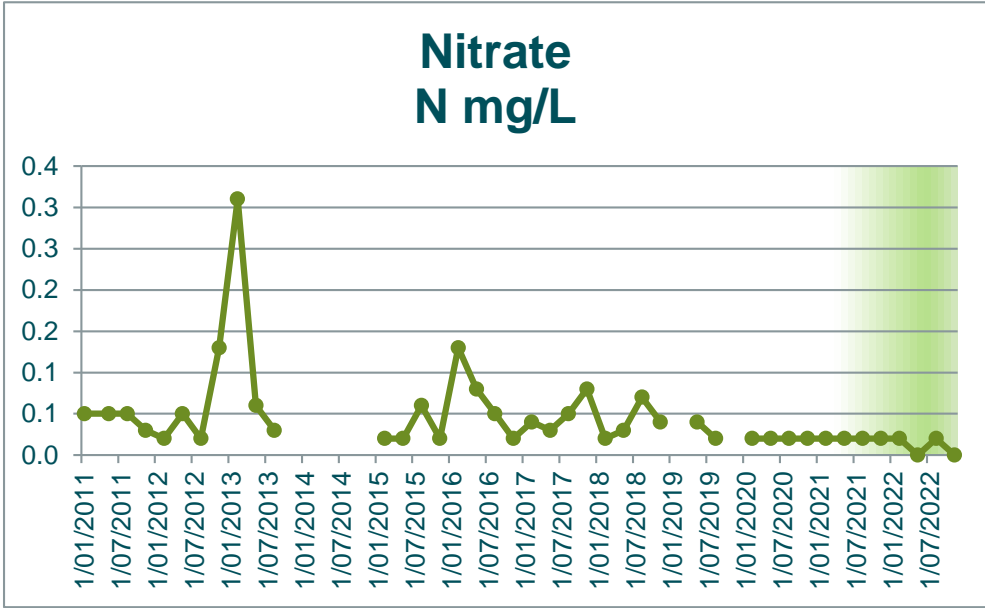
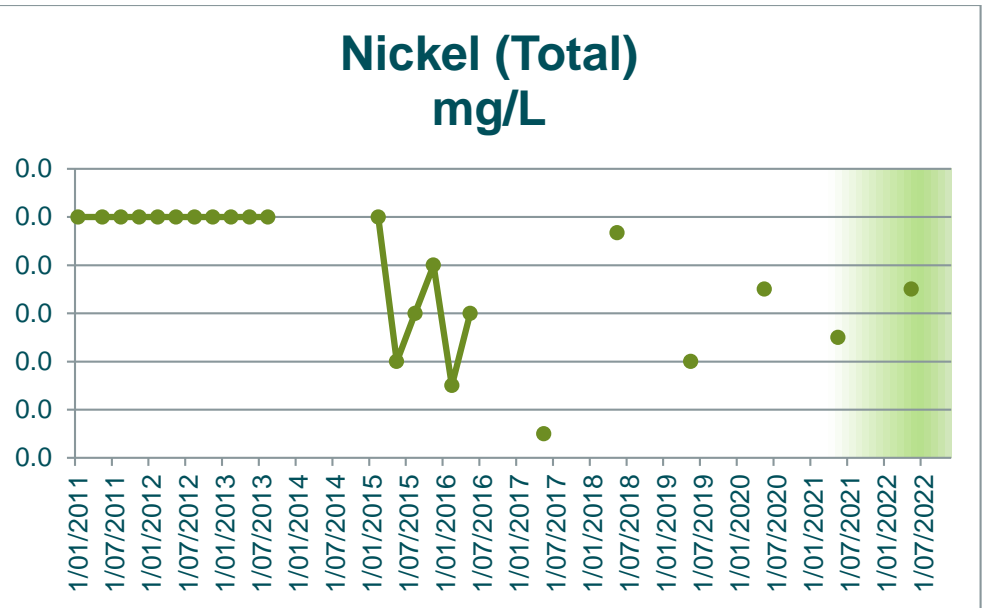
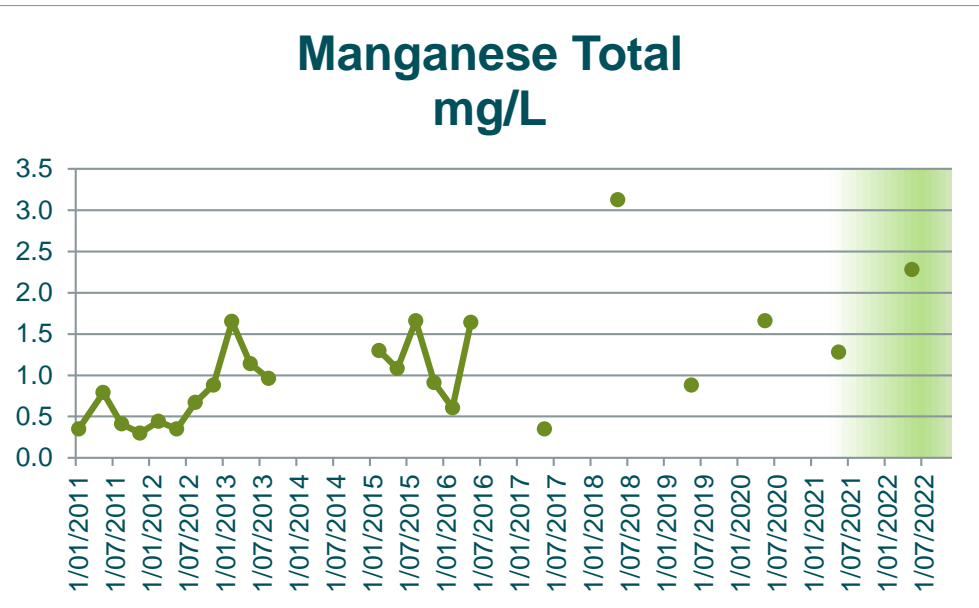
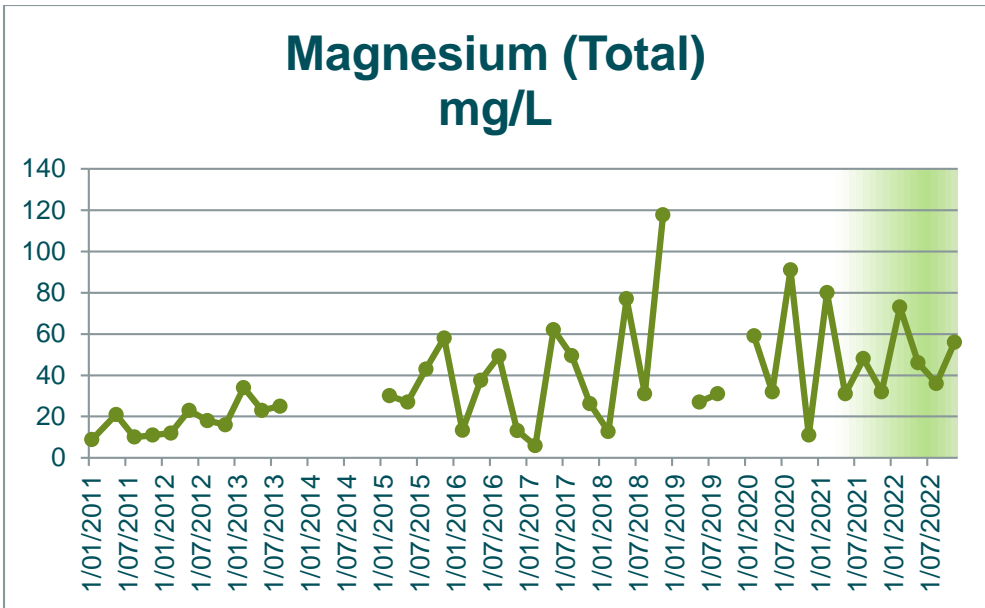


Calcium (Total)
mg/L

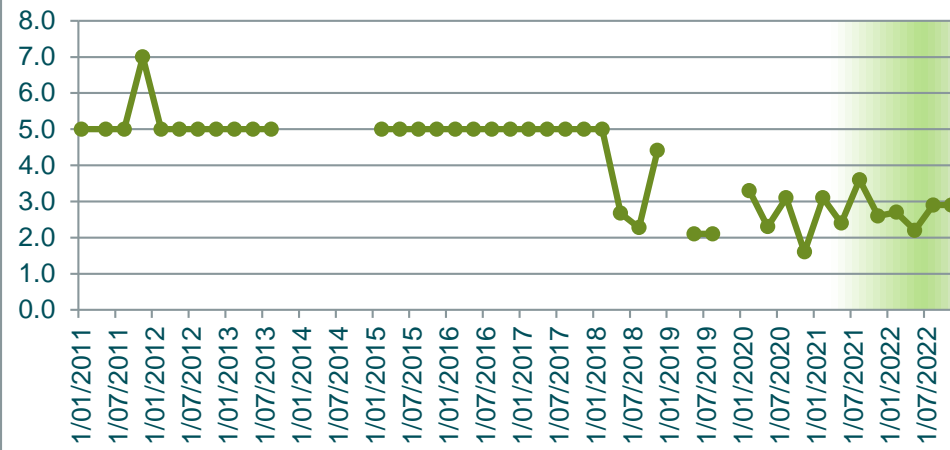


Chloride
mg/L

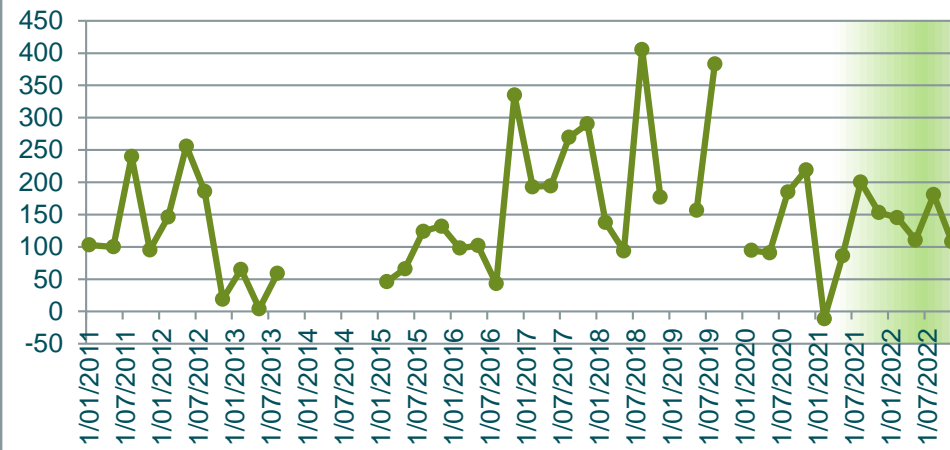




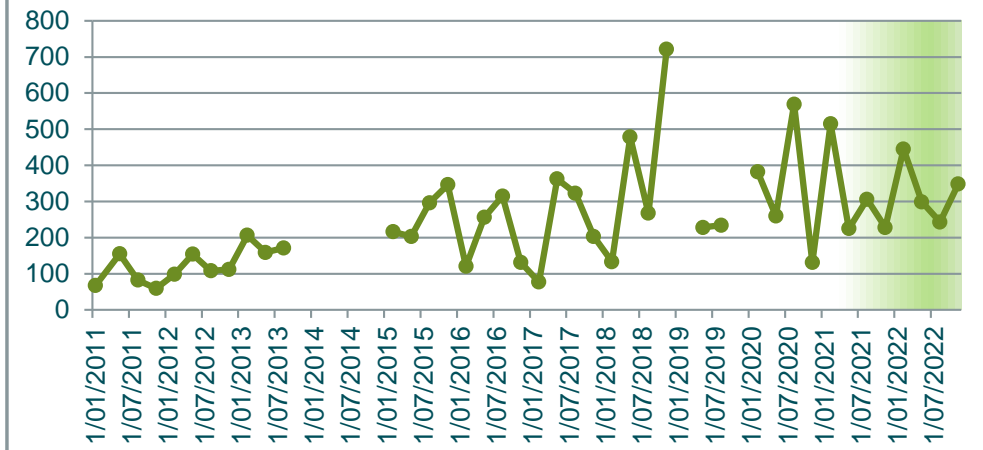
**Potassium Total
mg/L**



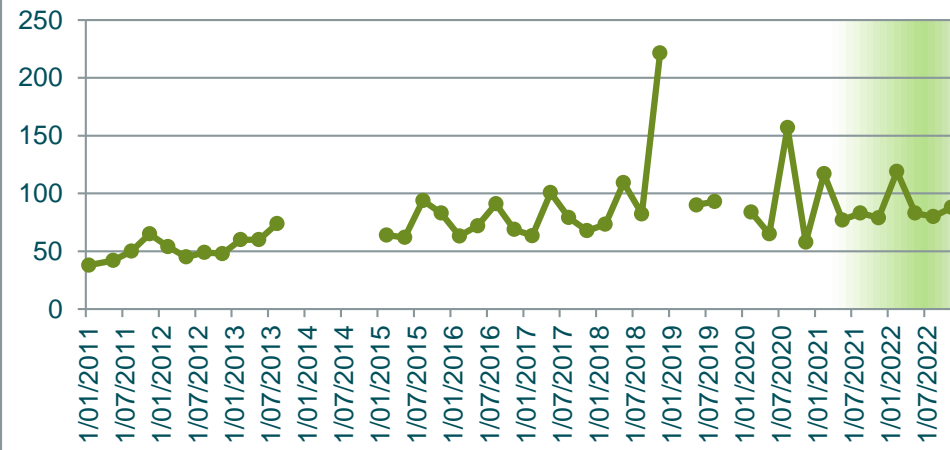
**Redox Potential
mV**



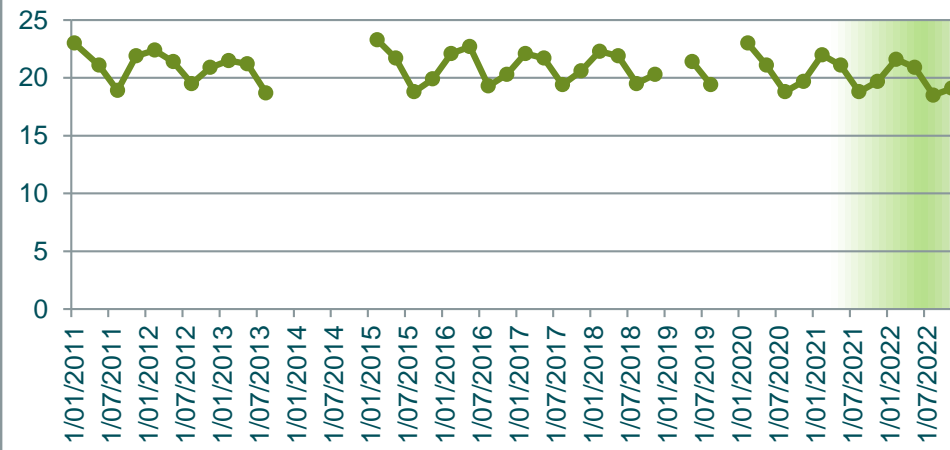
**Sodium (Total)
mg/L**



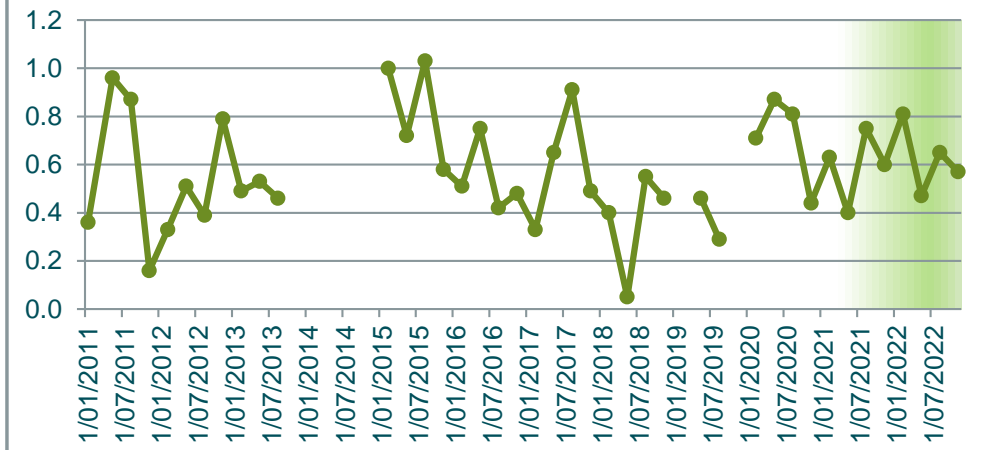
**Sulphate
mg/L**



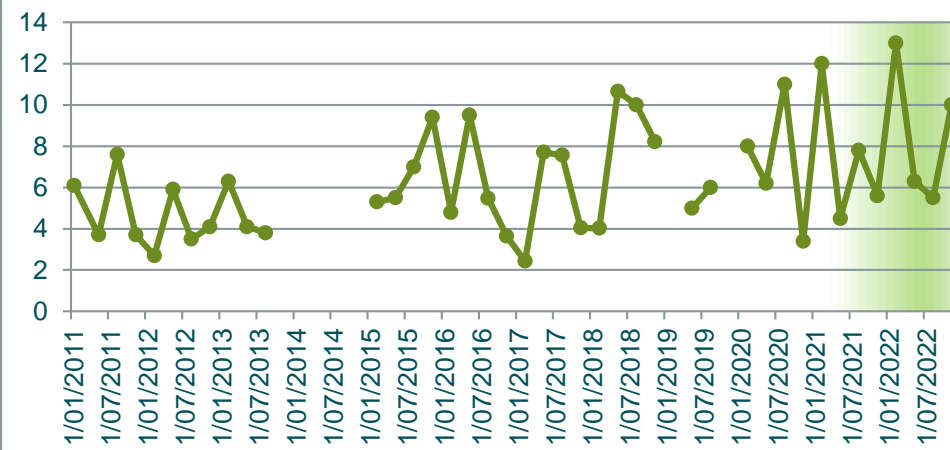
**Temperature
C**



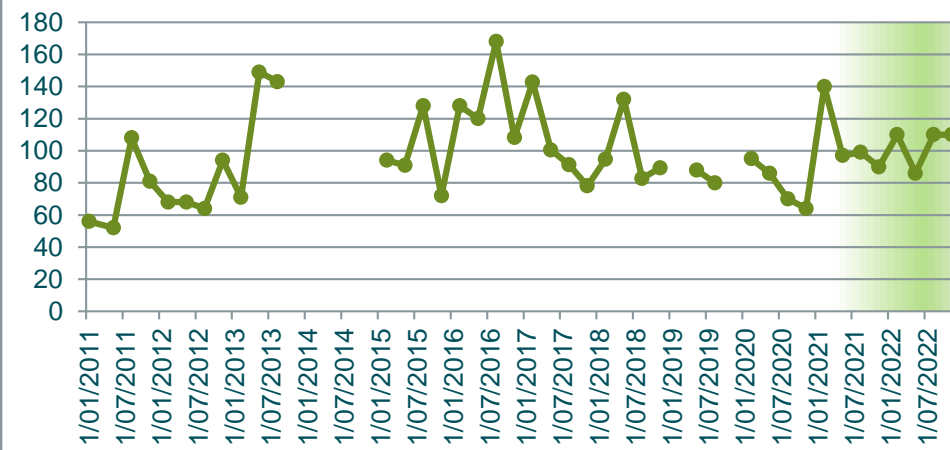
**TKN
mg/L**



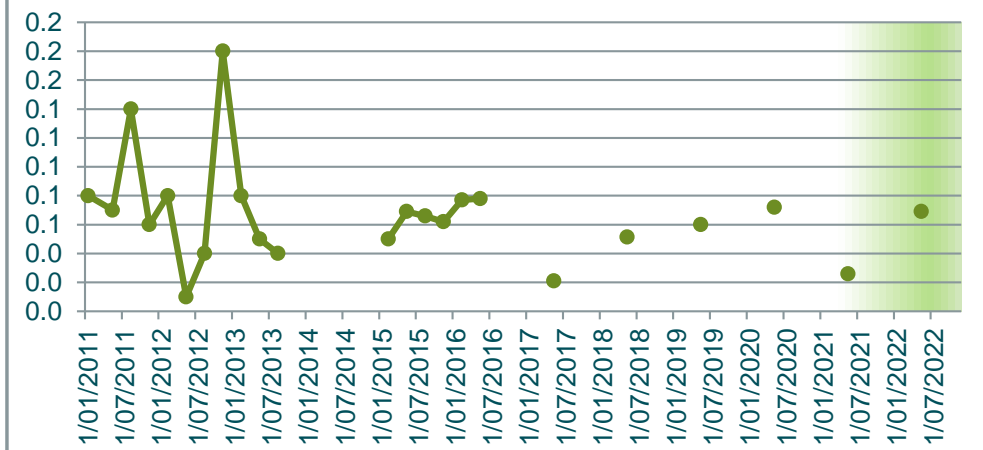
**TOC
mg/L**



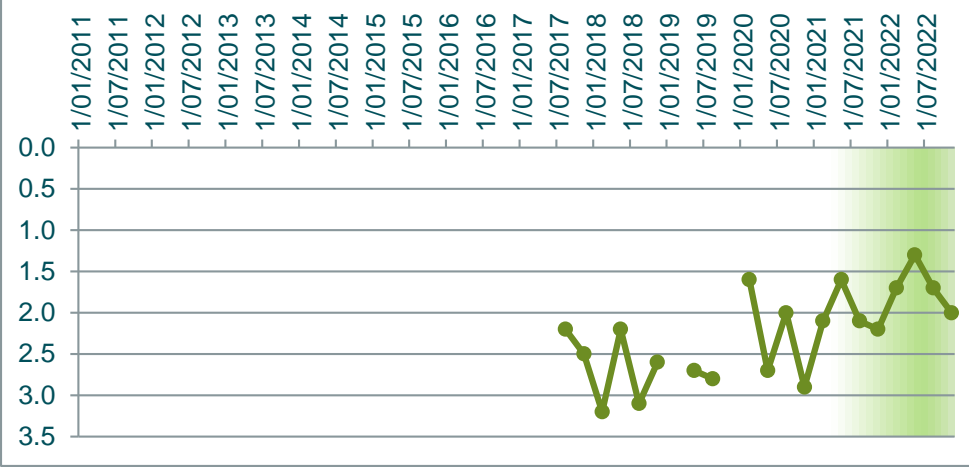
**Total Acidity
mg/L CaCO3**

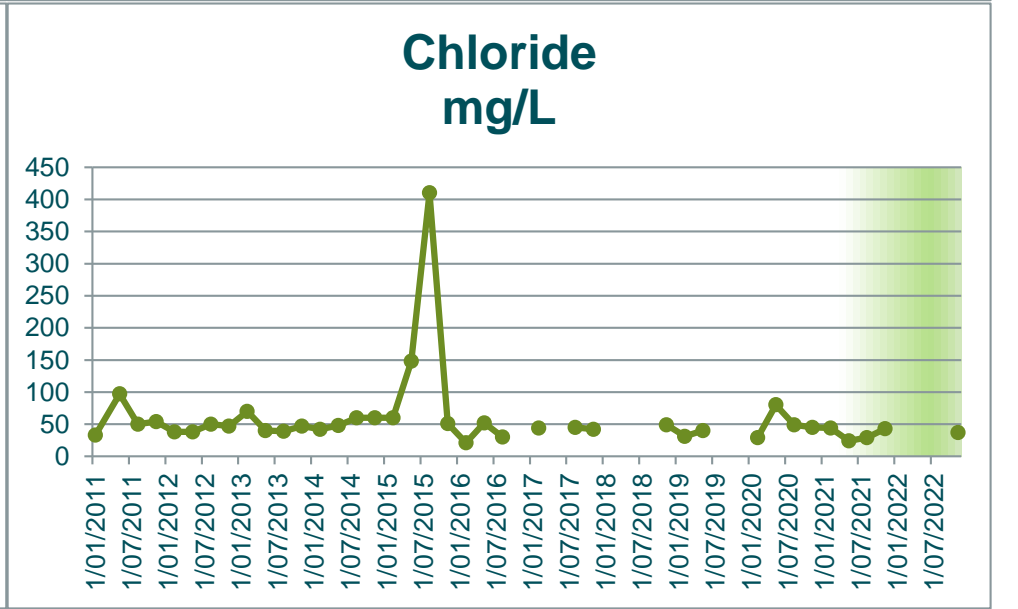
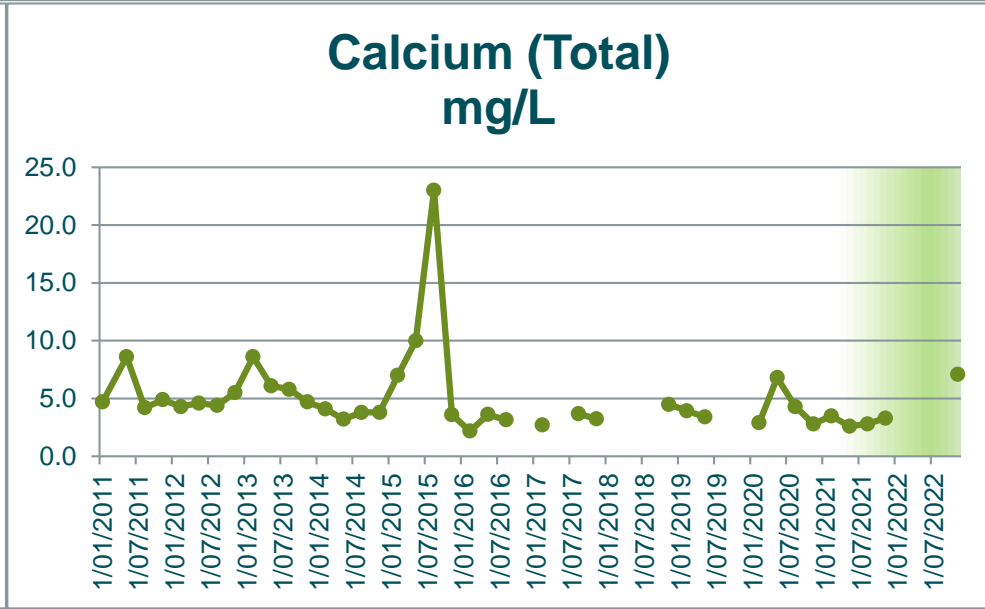
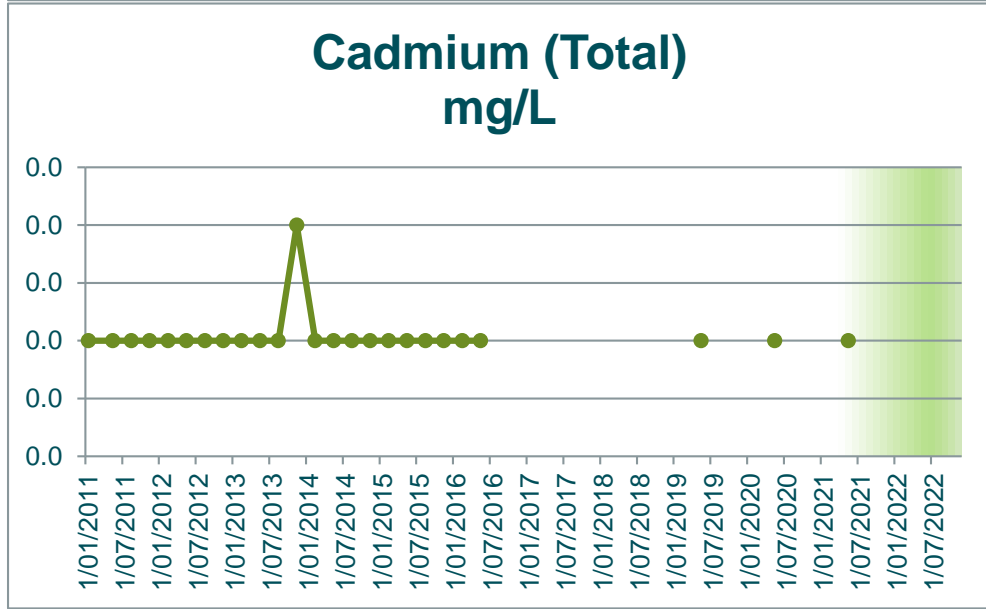
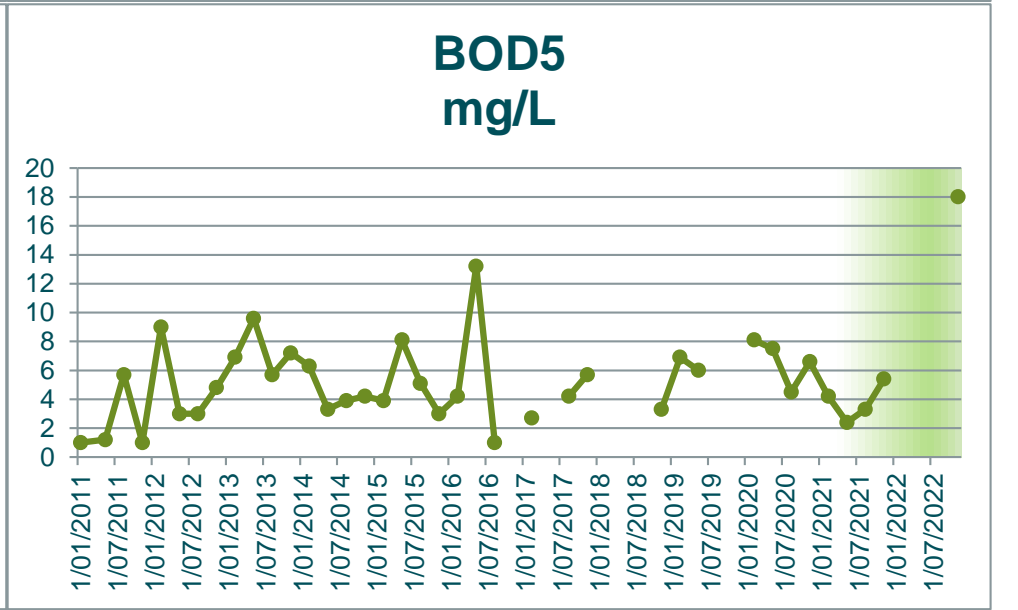
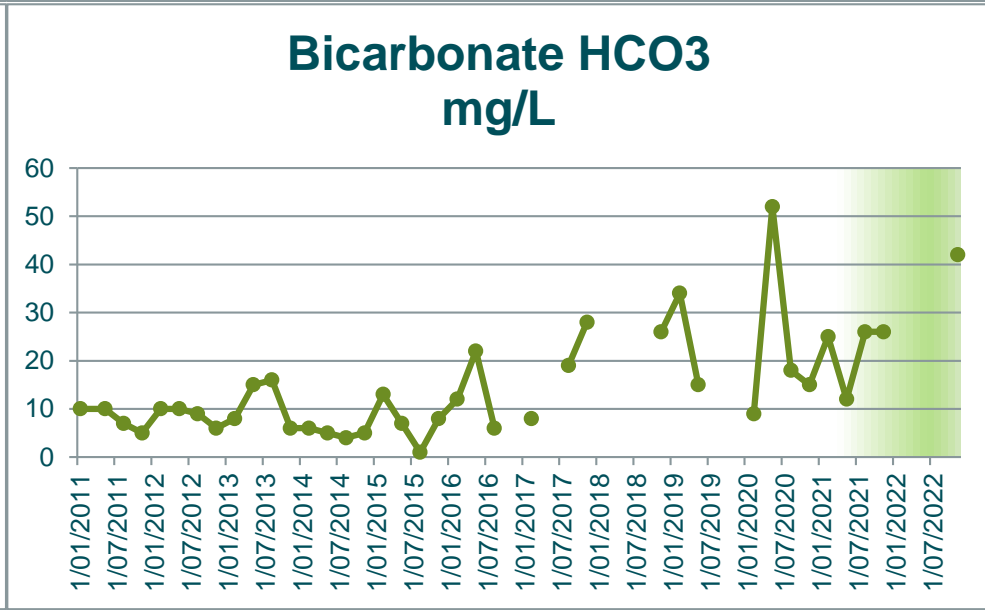
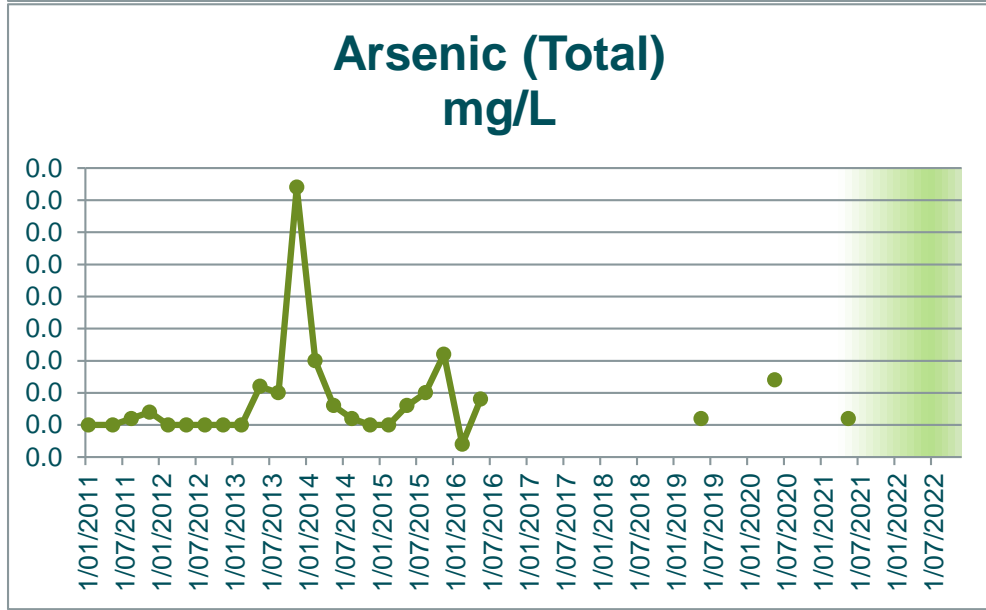
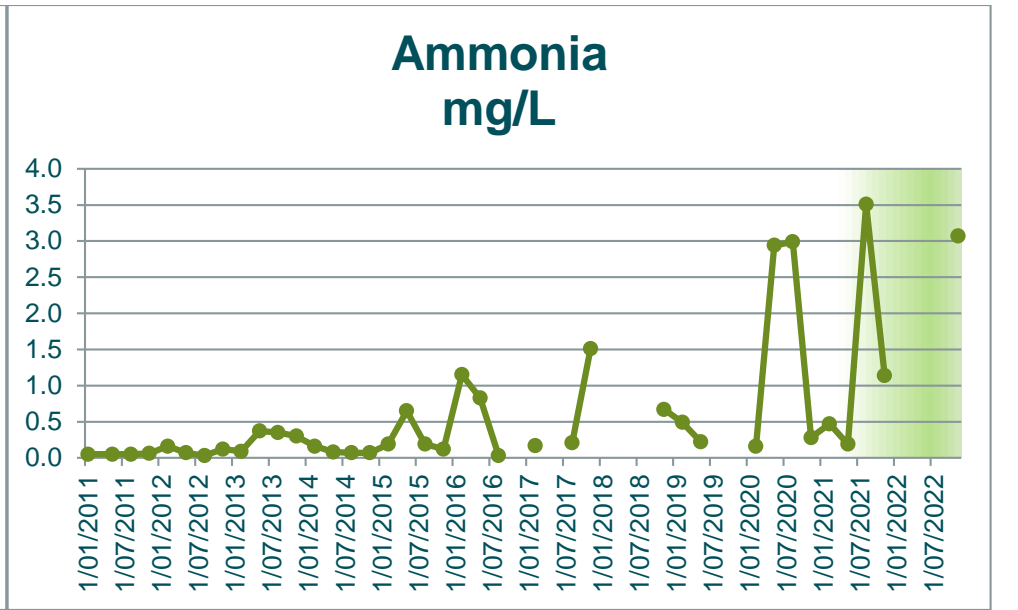
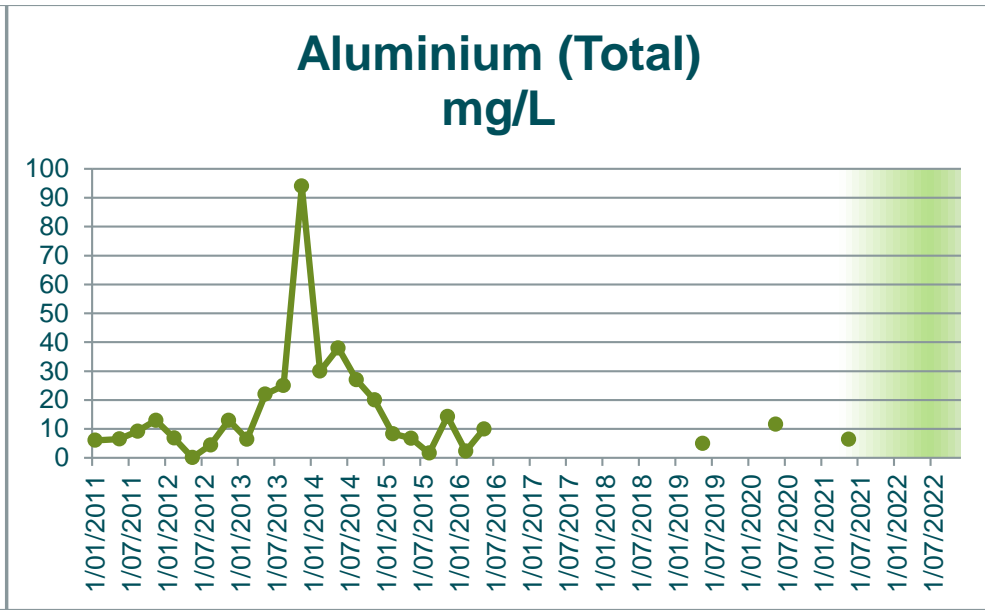
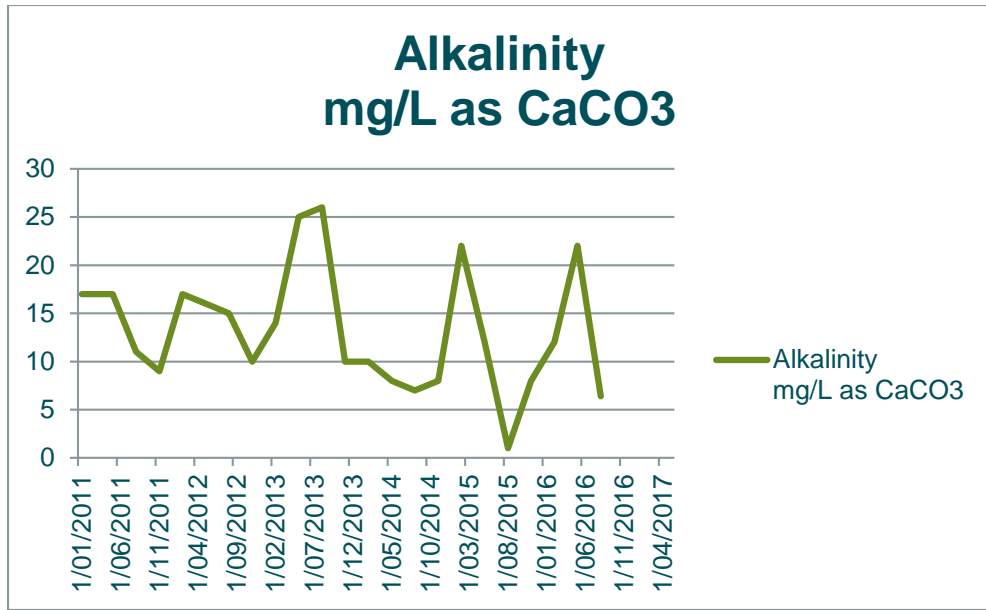


**Zinc (Total)
mg/L**

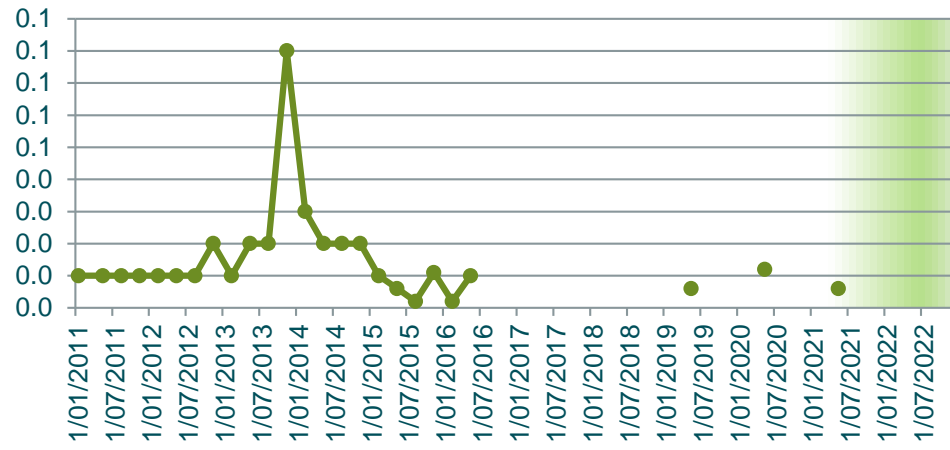


Depth to Groundwater m

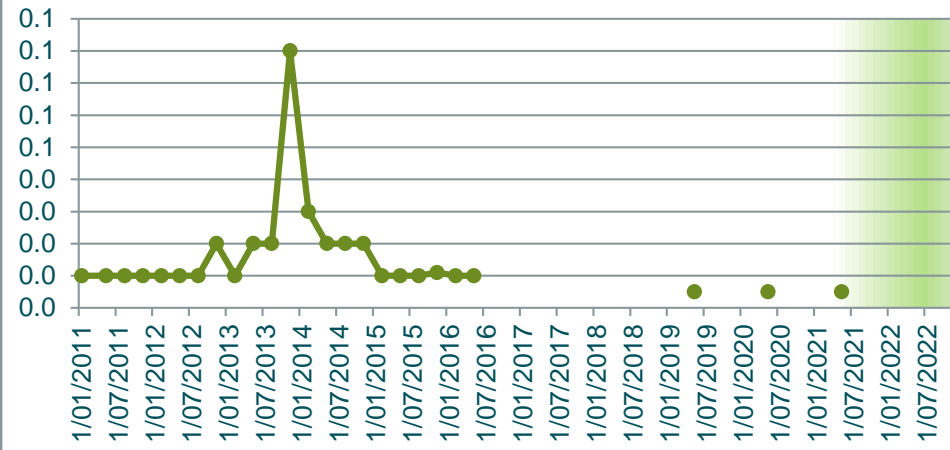




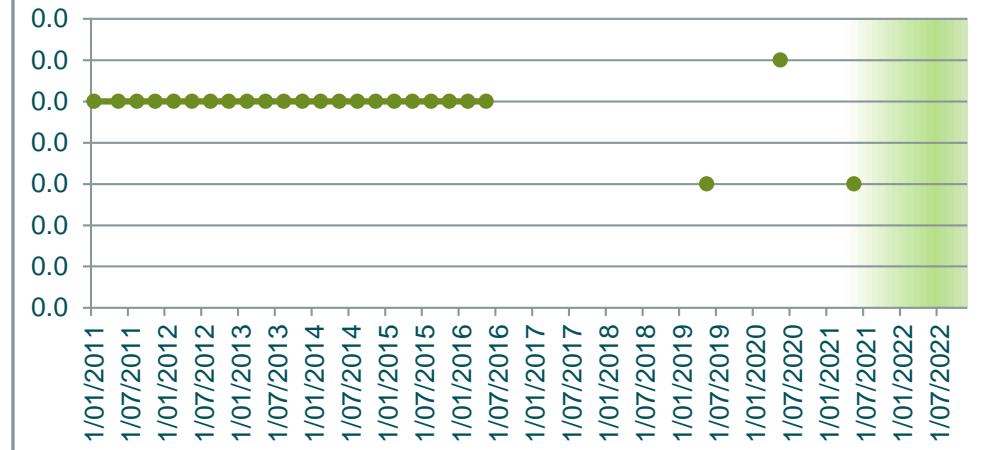
Chromium (Total) mg/L



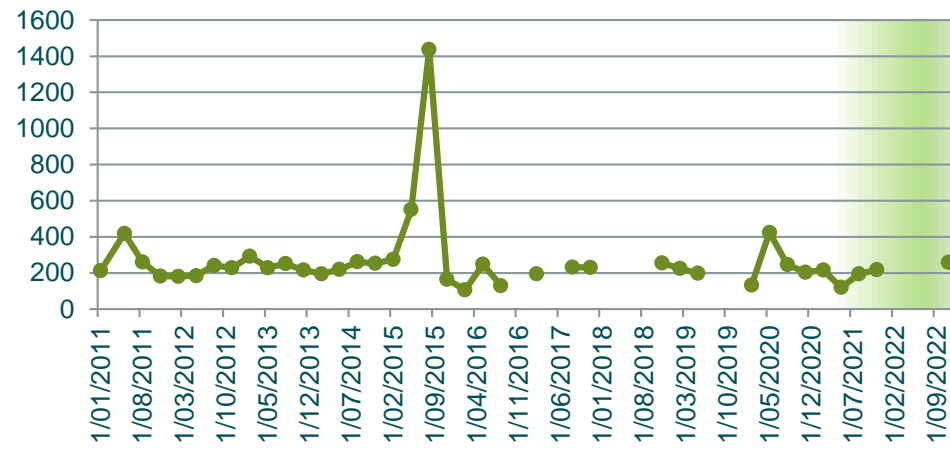
Chromium 3 mg/L



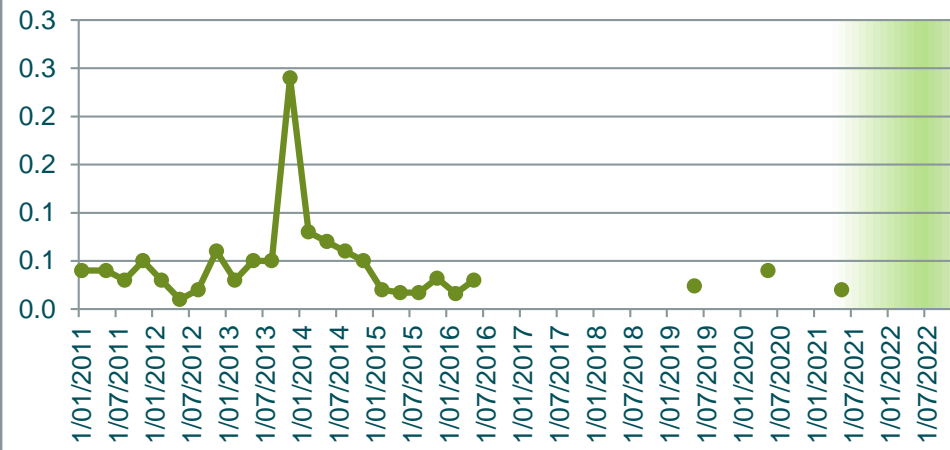
Chromium 6 mg/L



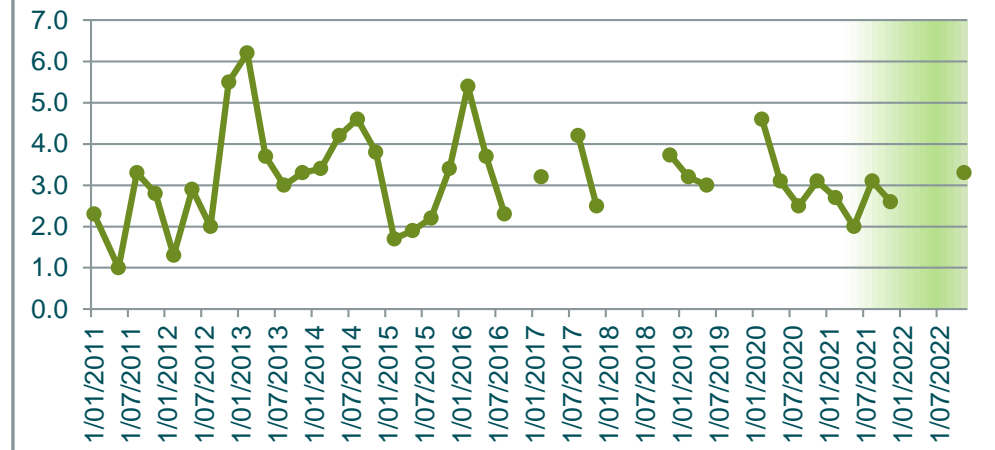
Conductivity µScm-1



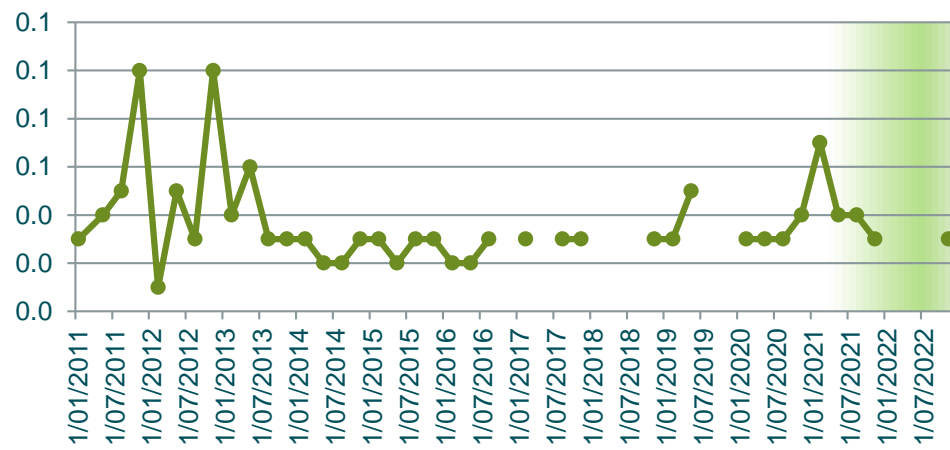
Copper (Total) mg/L



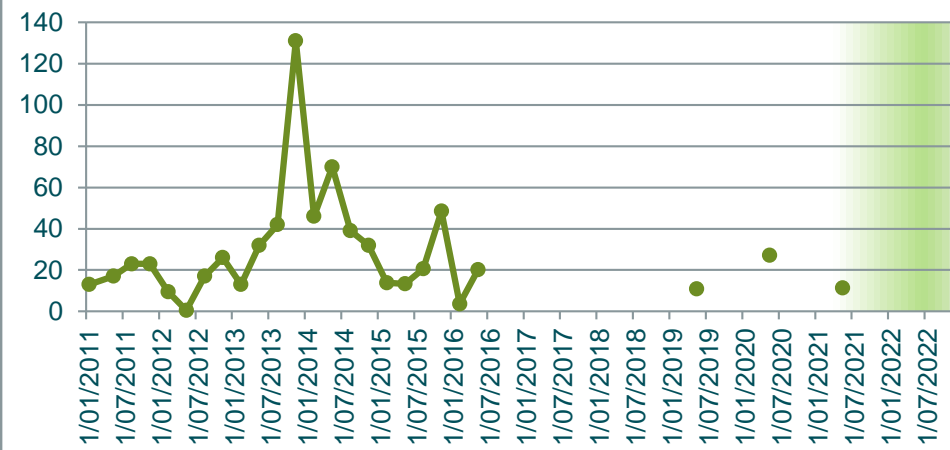
DO (Membrane Electrode) mg/L



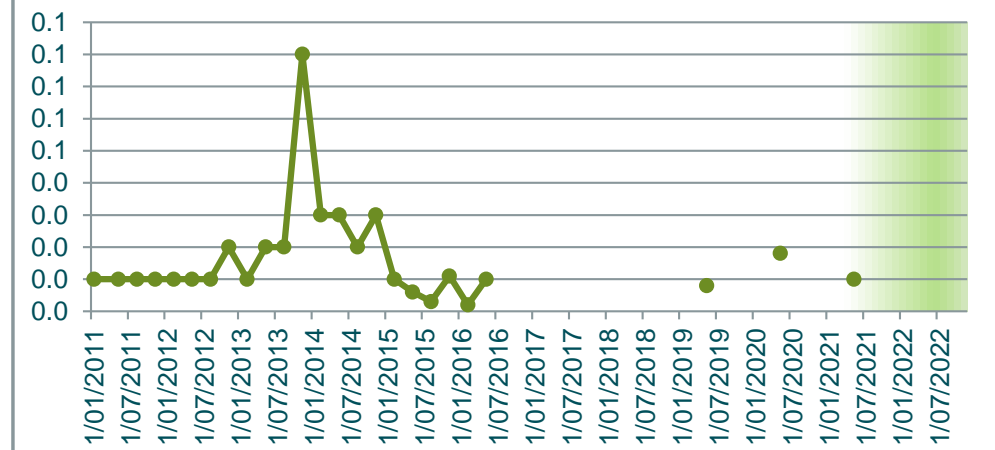
Flouride mg/L

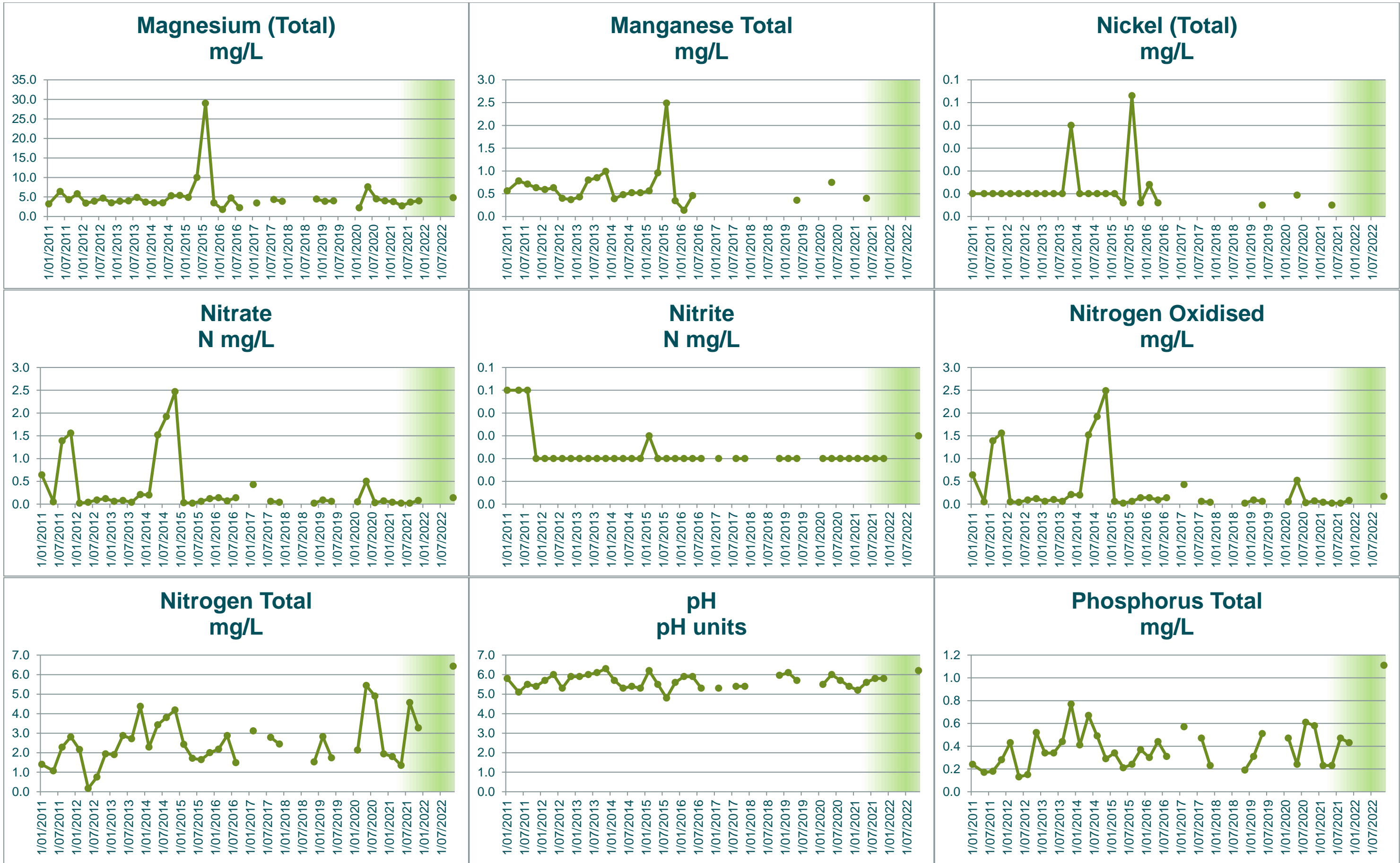


Iron Total mg/L

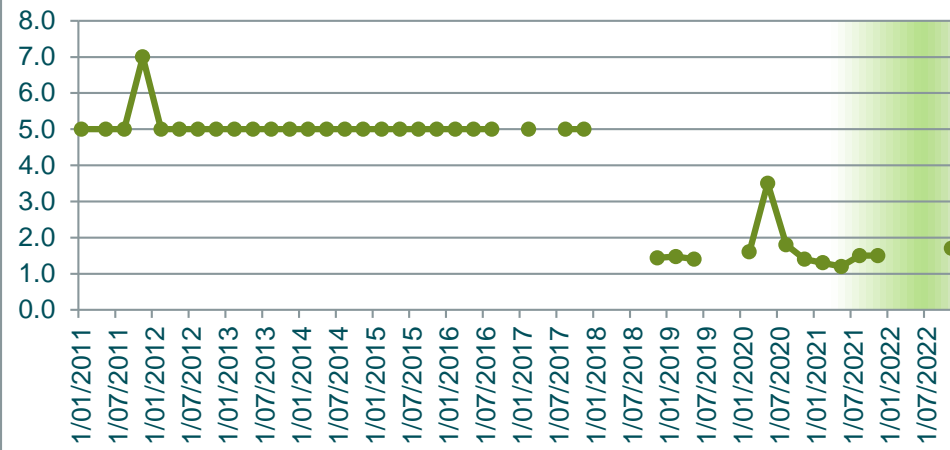


Lead (Total) mg/L

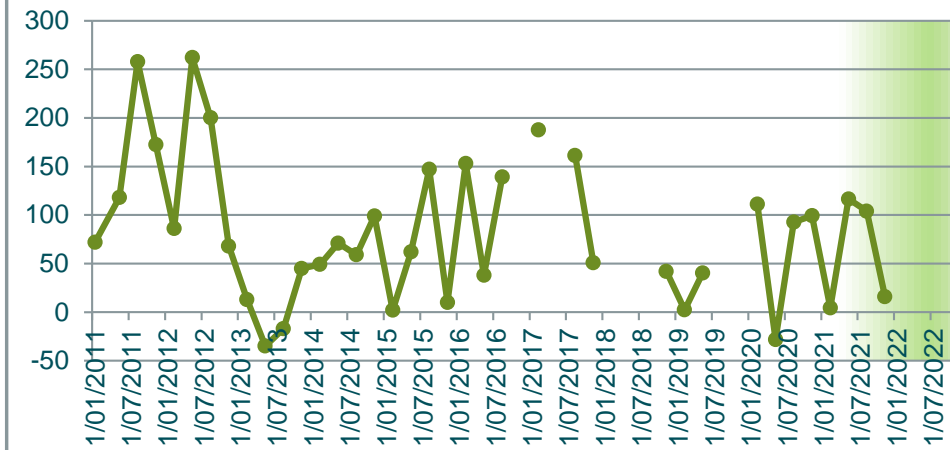




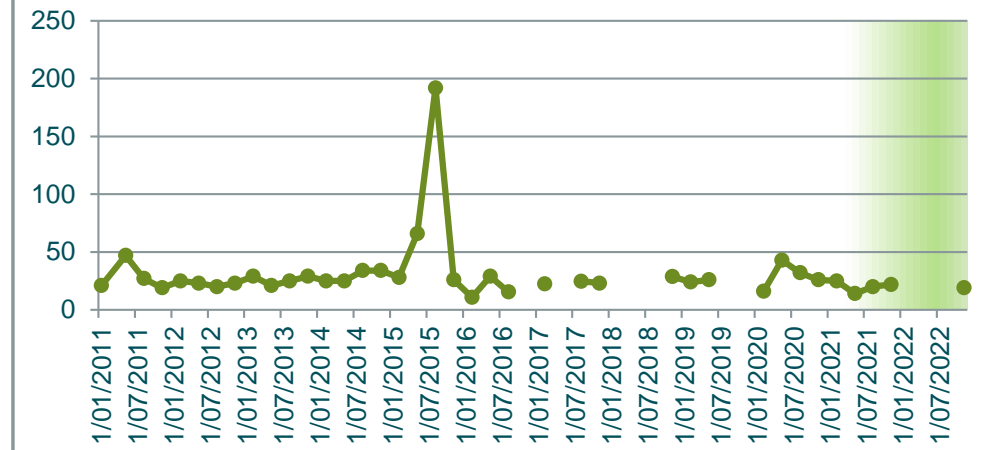
Potassium Total mg/L



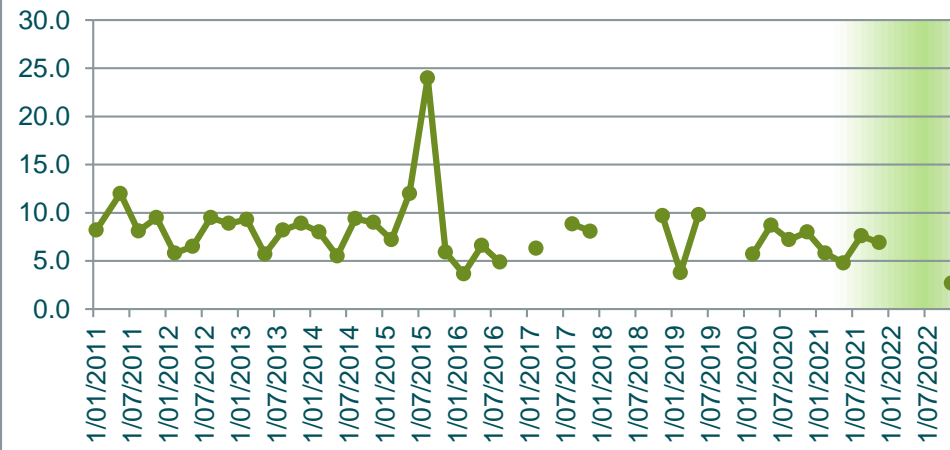
Redox Potential mV



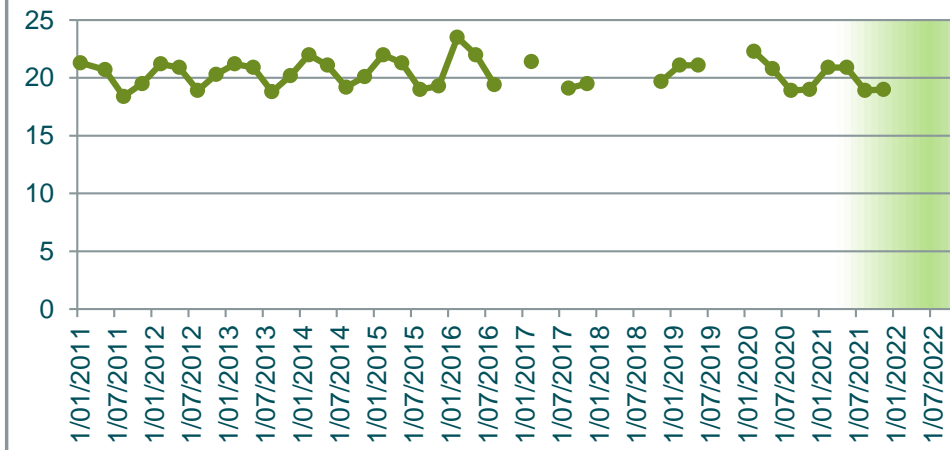
Sodium (Total) mg/L



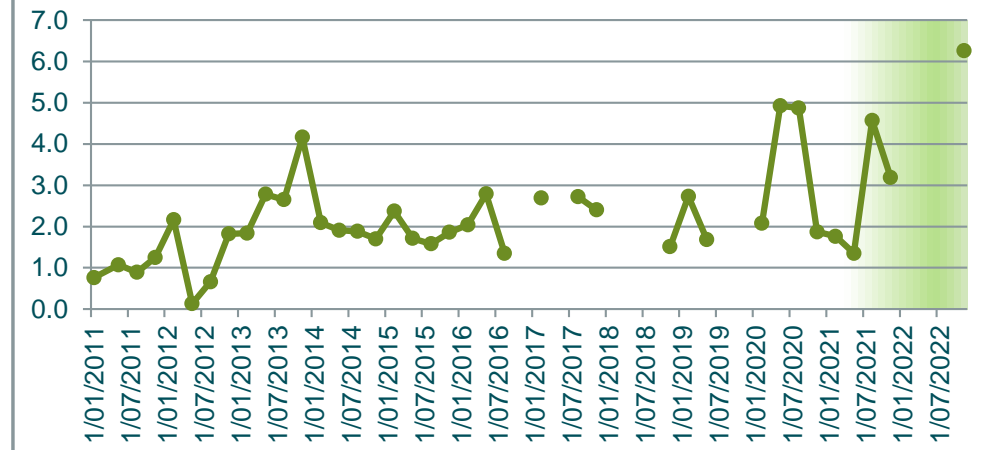
Sulphate mg/L



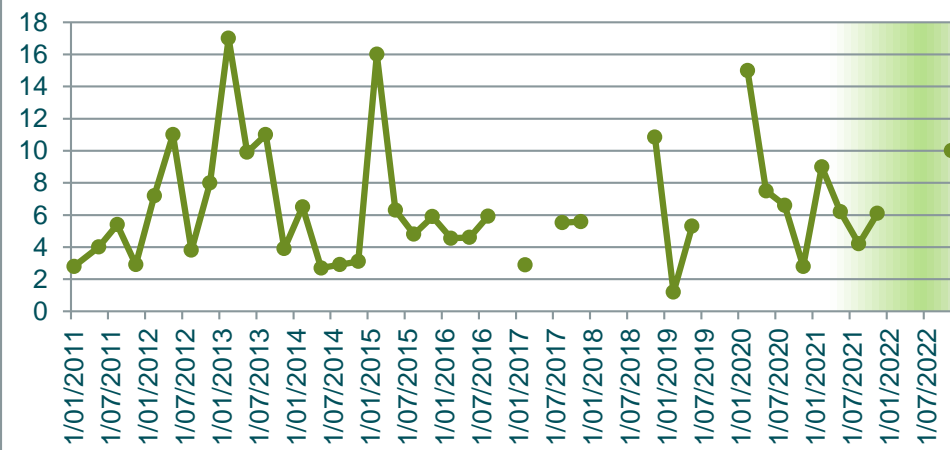
Temperature C



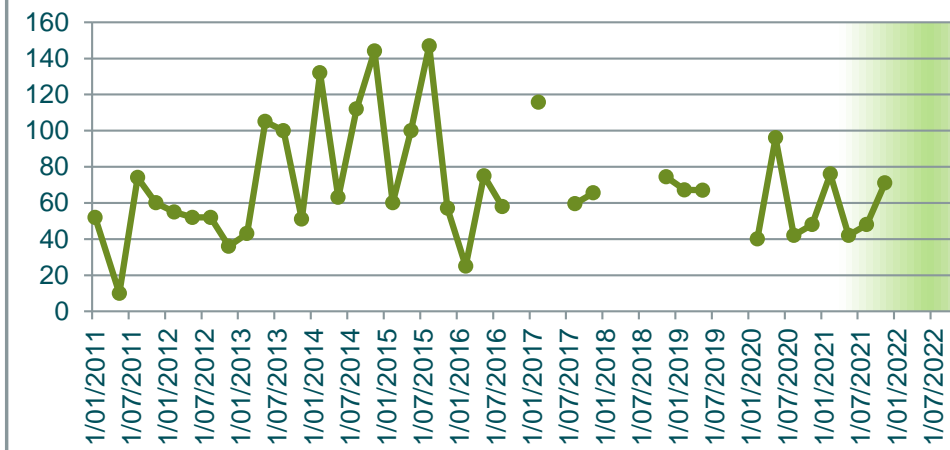
TKN mg/L



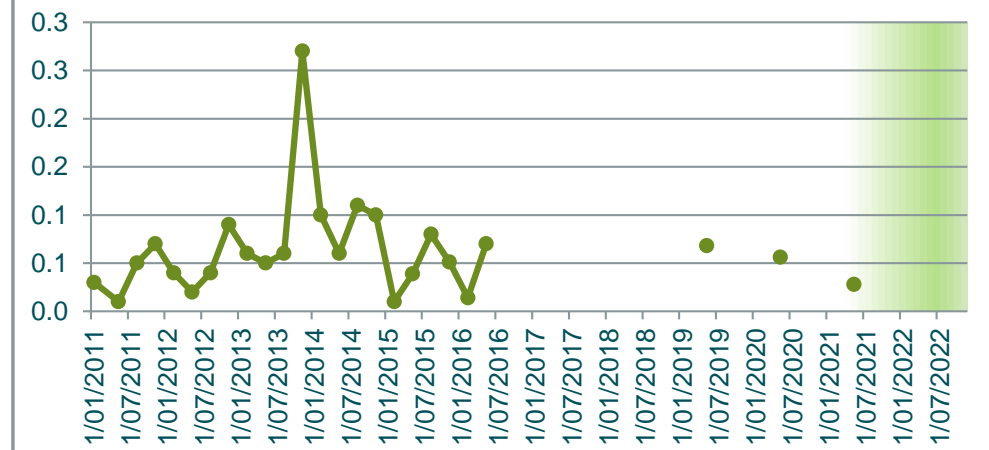
TOC mg/L



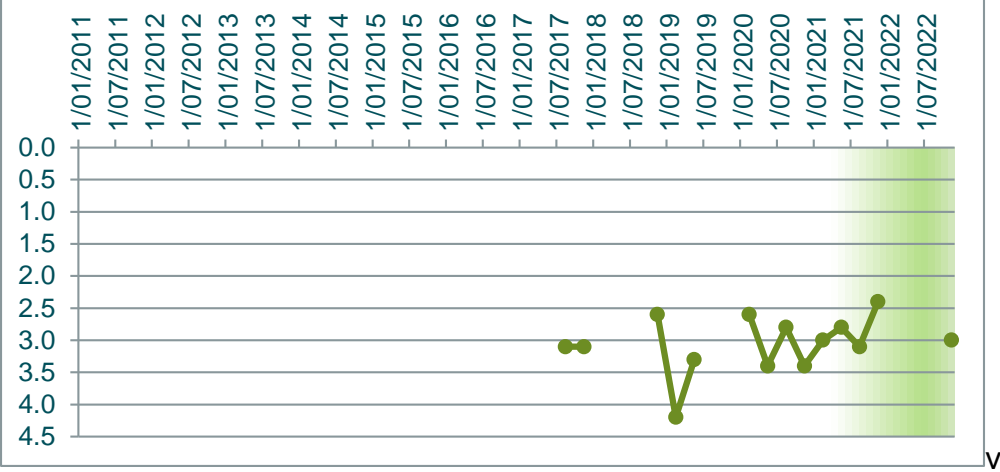
Total Acidity mg/L CaCO3



Zinc (Total) mg/L

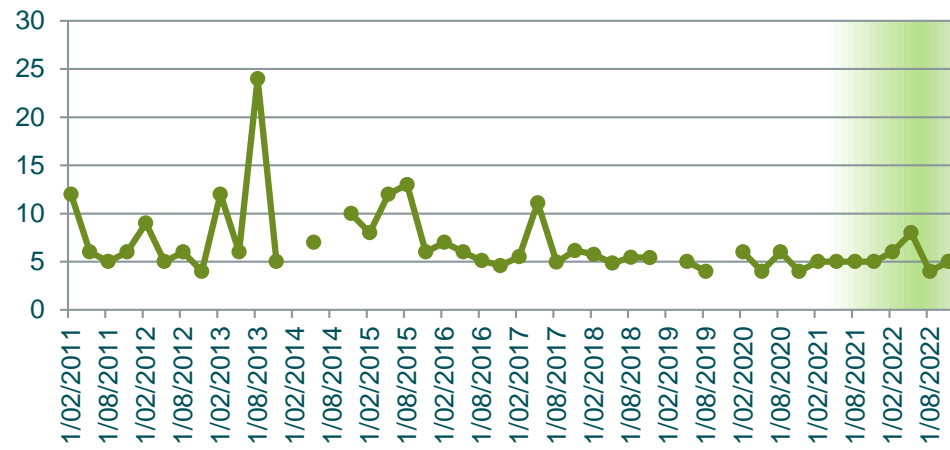


Depth to Groundwater m

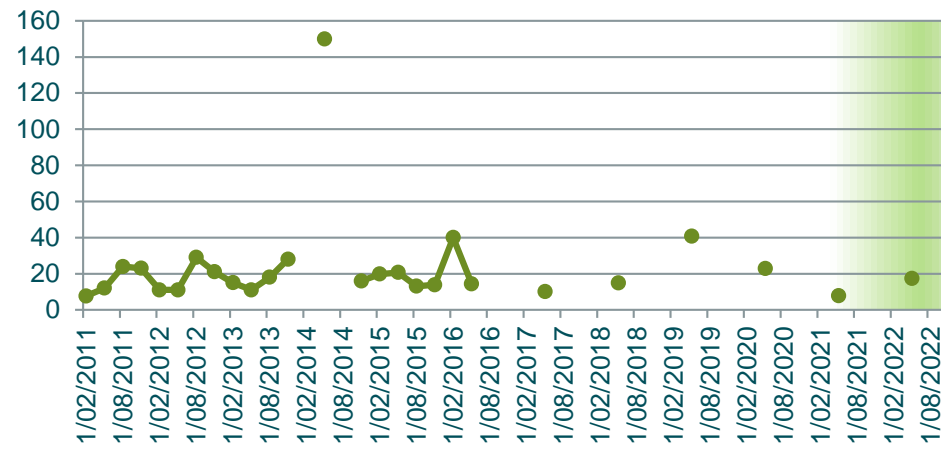


15/08/2018	5		0.0		5	2.7		0.3	16				90		4.1	0.0			1.6			0.3	0.0	0.3	1.9	5.1		0.3	0.5	377	14	9	21	1.5	31.0	53		5.1		
14/11/2018	5		0.0		5	1.8		0.5	12				86		2.6	0.0			1.8			0.1	0.0	0.1	0.8	5.0		0.1	0.5	178	12	8	21	0.8	1.5	69		3.9		
12/02/2019																																								
15/05/2019	5	41	0.0	0.0	5	1.2	0.0	0.9	18	0.0	0.0	0.0	87	0.0	3.6	0.2	20	0.0	1.9	0.6	0.0	0.6	0.0	0.6	1.6	5.0		0.4	0.6	246	12	7	23	1.0	0.9	54	0.1	2.6		
14/08/2019	4		0.0		4	1.0		0.6	14				86		3.6	0.0			1.9			0.7	0.0	0.7	1.4	5.0		0.2	0.5	400	12	8	20	0.8	1.4	47		3.1		
12/11/2019																																								
26/02/2020	6		0.0		6	1.0		2.8	10				78		3.1	0.0			1.6			2.7	0.0	2.7	3.2	5.4	0.0	0.1	1.1	164	7	4	25	0.5	2.1	29		1.5		
13/05/2020	4	23	0.0	0.0	4	1.0	0.0	0.4	18	0.0	0.0	0.0	83	0.0	2.9	0.1	12	0.0	1.4	0.5	0.0	0.2	0.0	0.2	0.9	4.9	0.0	0.1	0.5	233	11	8	23	0.7	1.0	52	0.1	3.0		
12/08/2020	6		0.0		6	1.0		0.6	12				66		3.1	0.0			1.3			0.1	0.0	0.1	0.6	4.9	0.0	0.1	0.5	281	9	7	20	0.6	1.3	46		2.0		
11/11/2020	4		0.0		4	1.0		1.0	14				87		3.8	0.1			1.9			1.7	0.0	1.7	2.5	4.8	0.0	0.1	0.5	350	11	6	21	0.8	1.0	43		3.3		
10/02/2021	5		0.0		5	1.0		1.1	12				78		2.8	0.1			1.5			0.7	0.0	0.7	1.1	4.8	0.0	0.1	0.6	346	9	6	23	0.4	1.6	48		2.7		
12/05/2021	5	8	0.0	0.0	5	1.0	0.0	1.7	12	0.0	0.0	0.0	78	0.0	3.3	0.0	4	0.0	1.9	0.2	0.0	1.5	0.0	1.5	1.9	5.1	0.0	0.1	0.7	366	9	6	22	0.3	1.3	51	0.0	2.0		
11/08/2021	5		0.0		5	1.0		0.8	14				91		3.2	0.0			2.0			1.2	0.0	1.2	1.8	4.9	0.0	0.1	0.5	322	11	7	20	0.6	1.0	51		2.7		
9/11/2021	5		0.0		5	1.0		0.8	23				83		2.7	0.0			1.8			1.1	0.0	1.1	2.0	4.9	0.0	0.2	0.5	366	10	7	21	0.9	1.1	54		2.6		
9/02/2022	6		0.0		6	1.8		1.3	12				68		3.0	0.0			1.5			0.5	0.0	0.5	1.4	5.0	0.0	0.1	0.6	243	8	5	23	0.9	1.7	70		1.9		
11/05/2022	8	17	0.0	0.0	8	2.4	0.0	2.0	12	0.0	0.0	0.0	74	0.0	4.0	0.0	8	0.0	1.7	0.3	0.0	0.3	0.0	0.3	1.0	5.2	0.0	0.1	0.7	279	8	6	22	0.8	1.8	57	0.1	1.5		
10/08/2022	4		0.0		4	1.0		0.8	11				84		3.8	0.0			1.9			1.0	0.0	1.0	1.7	5.0	0.0	0.1	0.5	257	10	6	20	0.6	1.0	57		2.7		
9/11/2022	5		0.0		5	1.0		0.9	12				86		2.9	0.0			1.9			1.2	0.0	1.2	1.9	4.9	0.0	0.3	0.5	245	10	6	20	0.7	0.8	63		2.7		
2022 Min	4	17	0.0	0.0	4	1.0	0.0	0.8	11	0.0	0.0	0.0	68	0.0	2.9	0.0	8	0.0	1.5	0.3	0.0	0.3	0.0	0.3	1.0	4.9	0.0	0.1	0.5	243	8	5	20	0.6	0.8	57	0.1	1.5		
2022 Max	8	17	0.0	0.0	8	2.4	0.0	2.0	12	0.0	0.0	0.0	86	0.0	4.0	0.0	8	0.0	1.9	0.3	0.0	1.2	0.0	1.2	1.9	5.2	0.0	0.3	0.7	279	10	6	23	0.9	1.8	70	0.1	2.7		
2022 Mean	6	17	0.0	0.0	6	1.6	0.0	1.3	12	0.0	0.0	0.0	78	0.0	3.4	0.0	8	0.0	1.8	0.3	0.0	0.8	0.0	0.8	1.5	5.0	0.0	0.2	0.6	256	9	6	21	0.7	1.3	62	0.1	2.2		
Long-term Average	7	24	0.0	0.0	6	1.6	0.0	0.8	16	0.0	0.0	0.0	92	0.0	3.1	0.0	19	0.0	1.7	0.9	0.0	0.6	0.0	0.6	1.3	5.1	0.0	0.1	3.3	256	12	7	22	0.7	1.9	63	0.1	2.7		

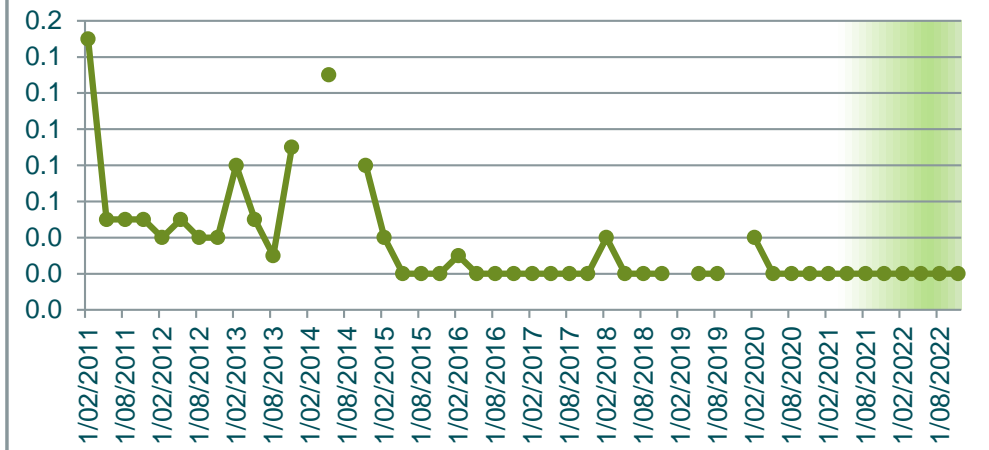
**Alkalinity
mg/L as CaCO3**



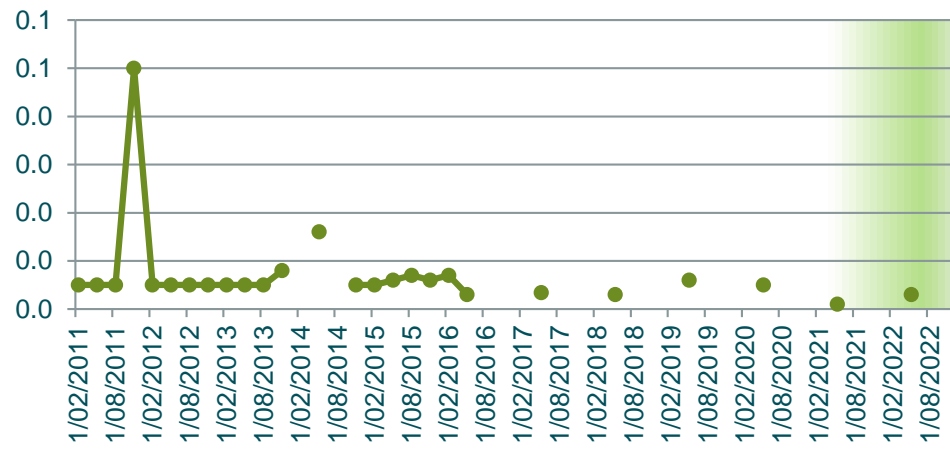
**Aluminium (Total)
mg/L**



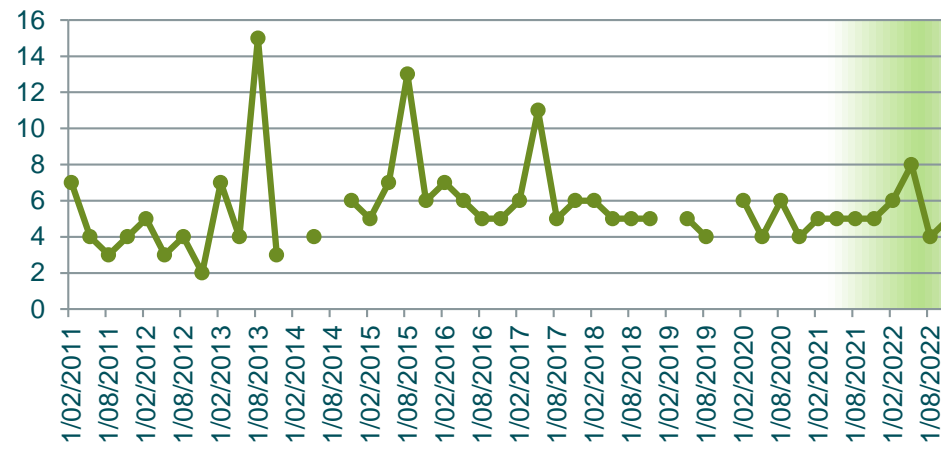
**Ammonia
mg/L**



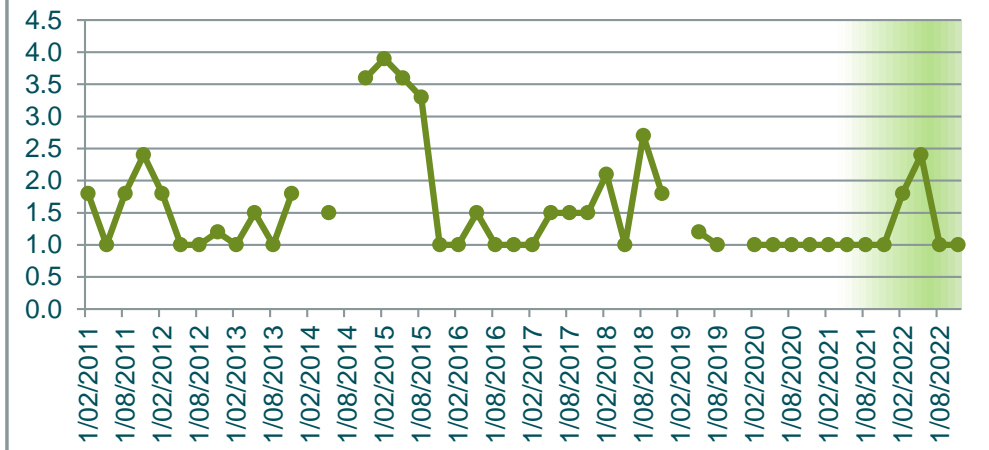
**Arsenic (Total)
mg/L**



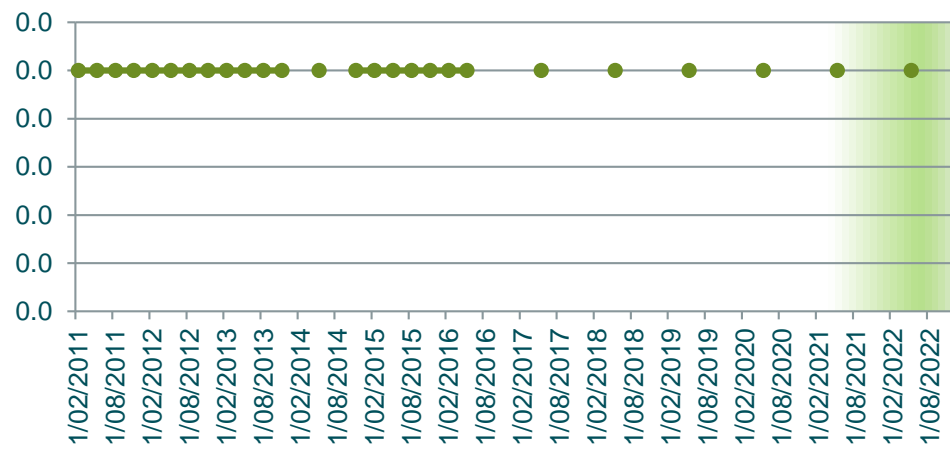
**Bicarbonate HCO3
mg/L**



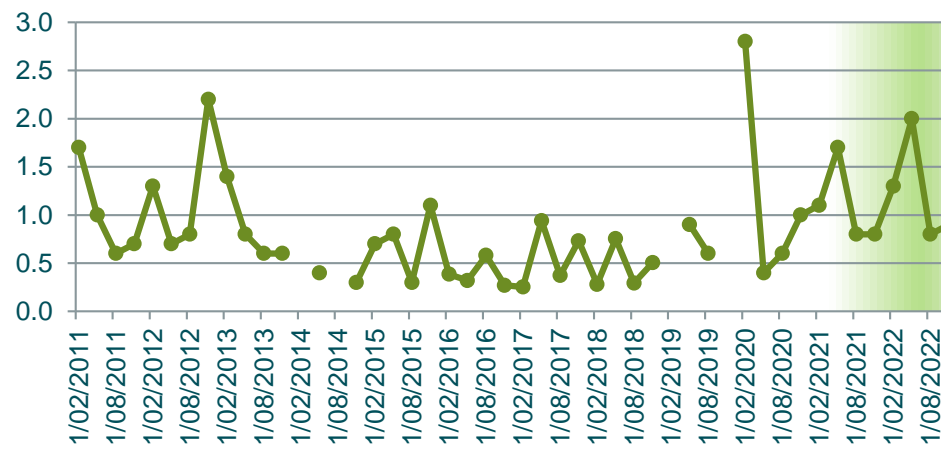
**BOD5
mg/L**



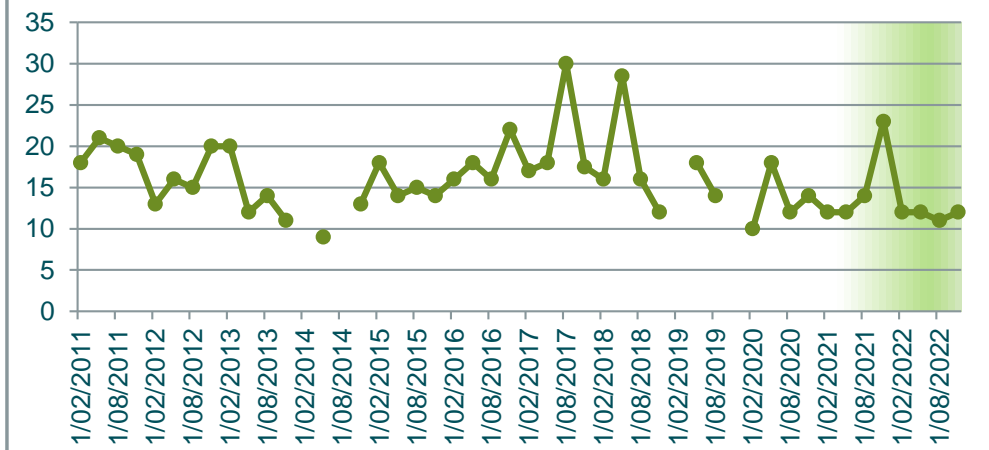
**Cadmium (Total)
mg/L**



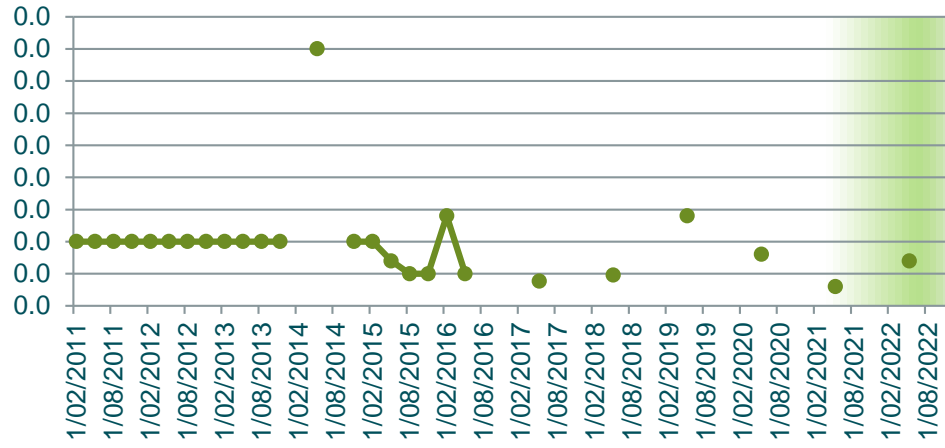
**Calcium (Total)
mg/L**



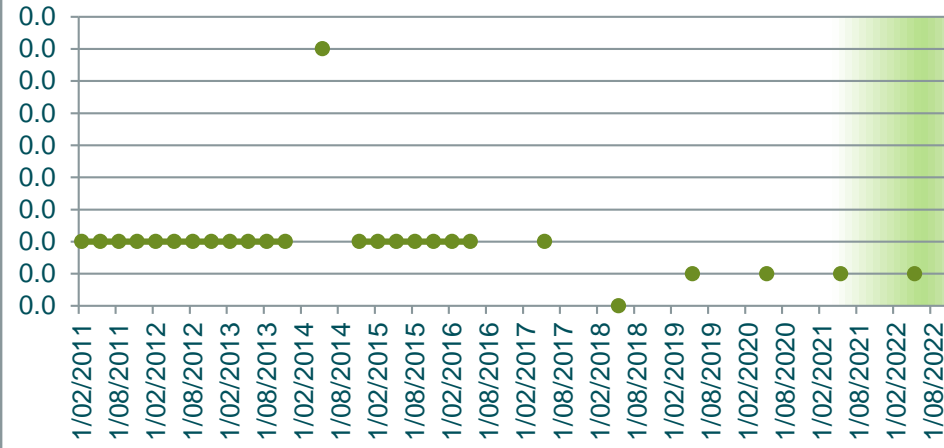
**Chloride
mg/L**



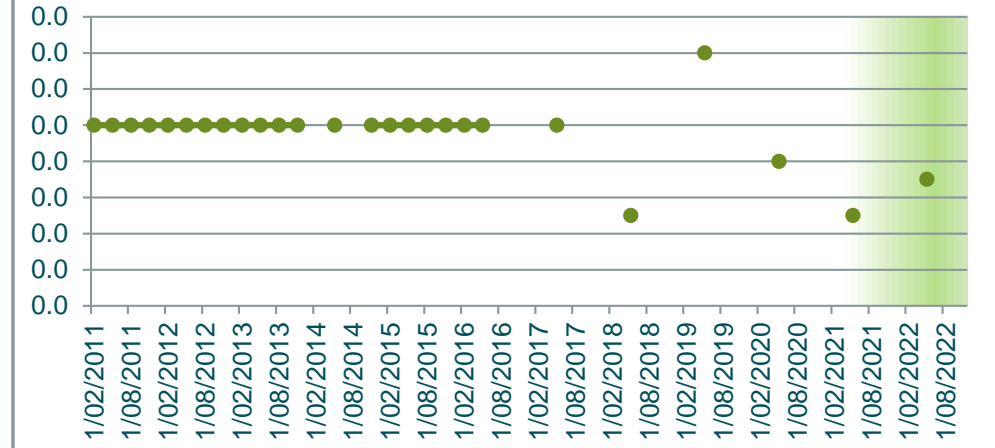
Chromium (Total)
mg/L



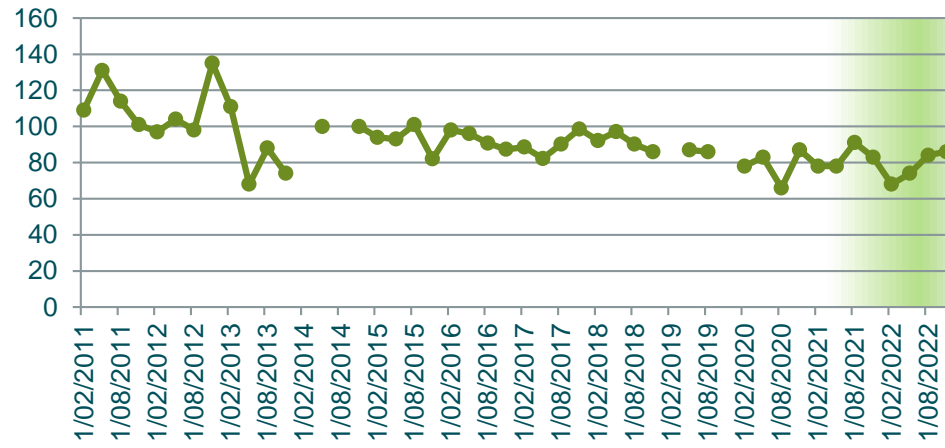
Chromium 3
mg/L



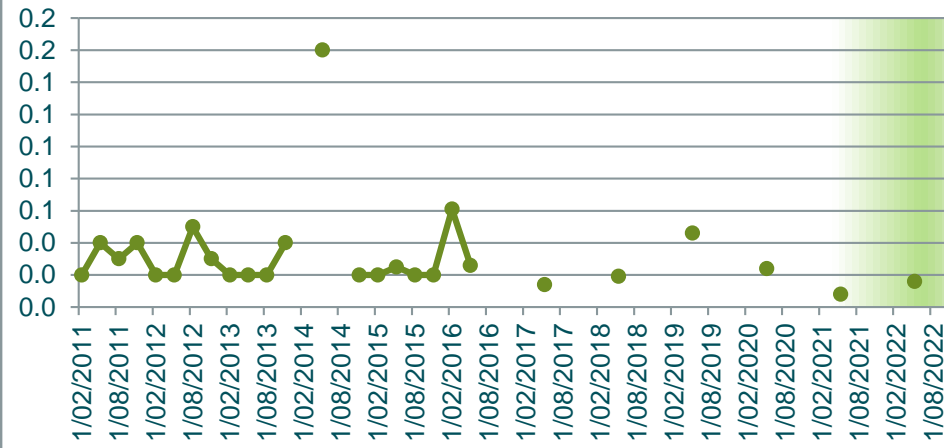
Chromium 6
mg/L



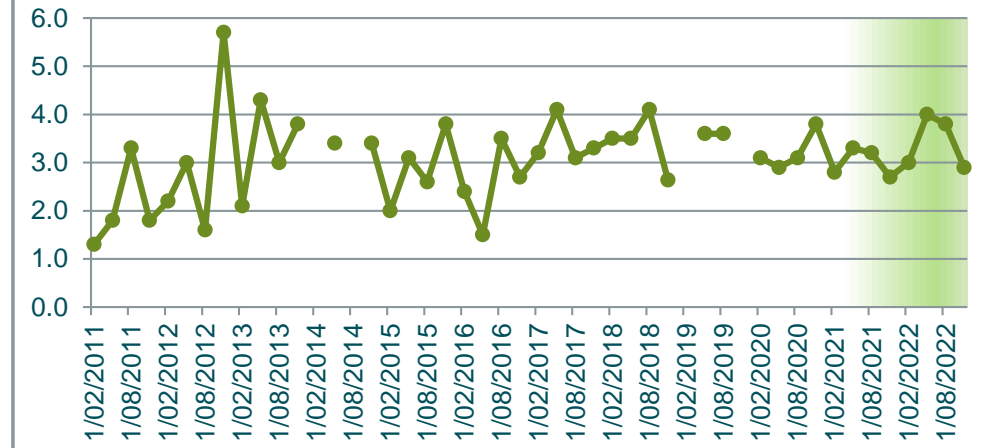
Conductivity
µScm-1



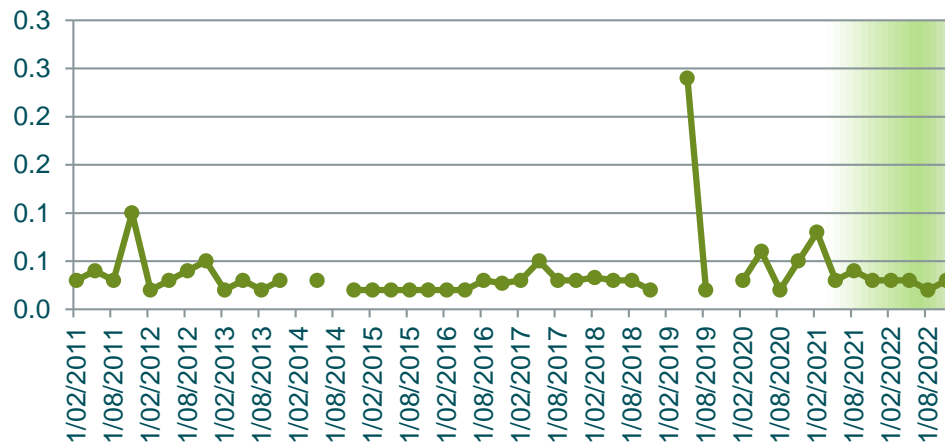
Copper (Total)
mg/L



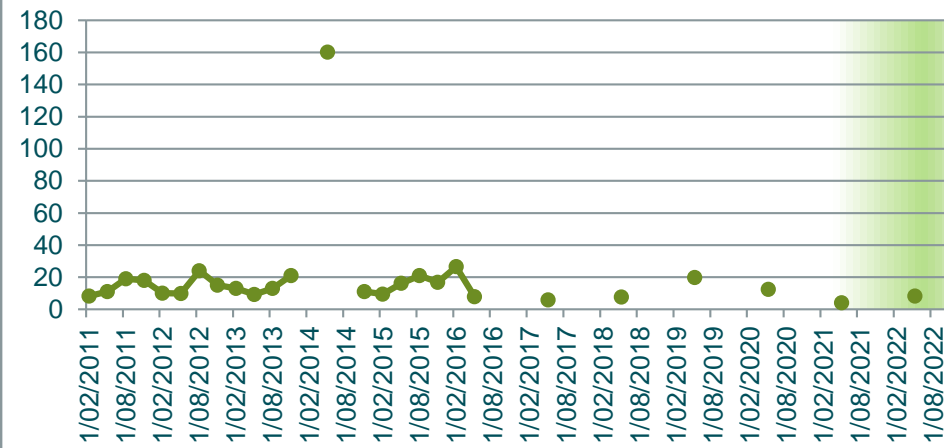
DO (Membrane Electrode)
mg/L



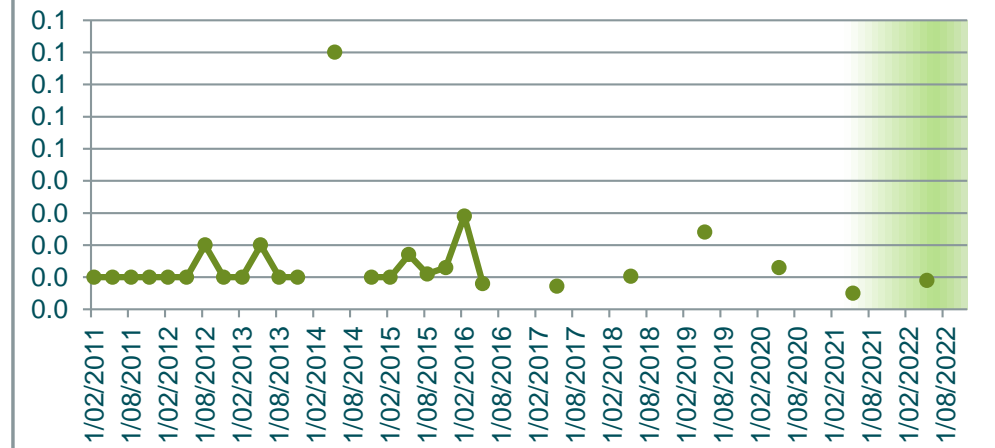
Flouride
mg/L



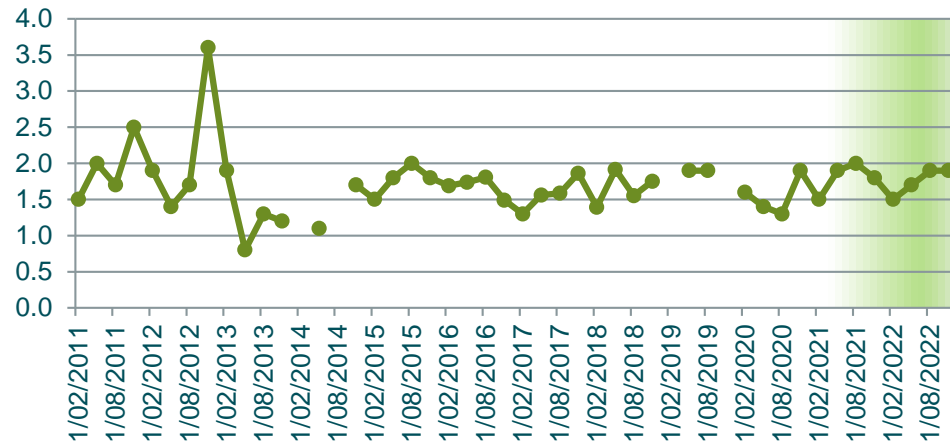
Iron Total
mg/L



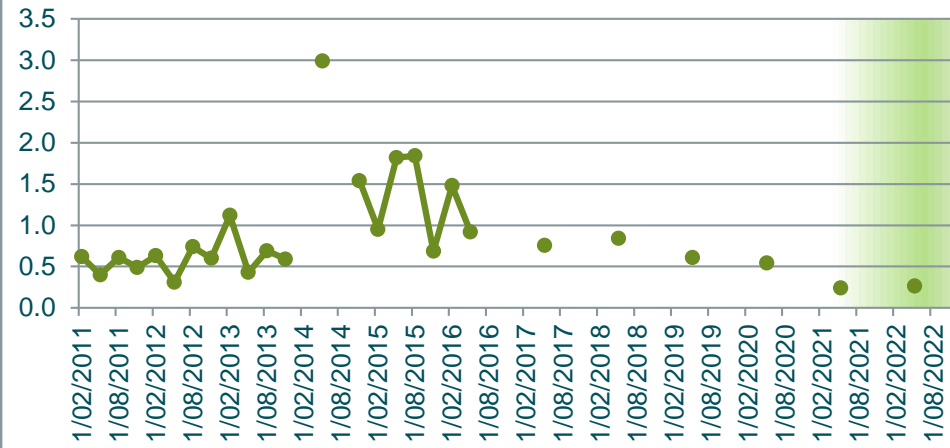
Lead (Total)
mg/L



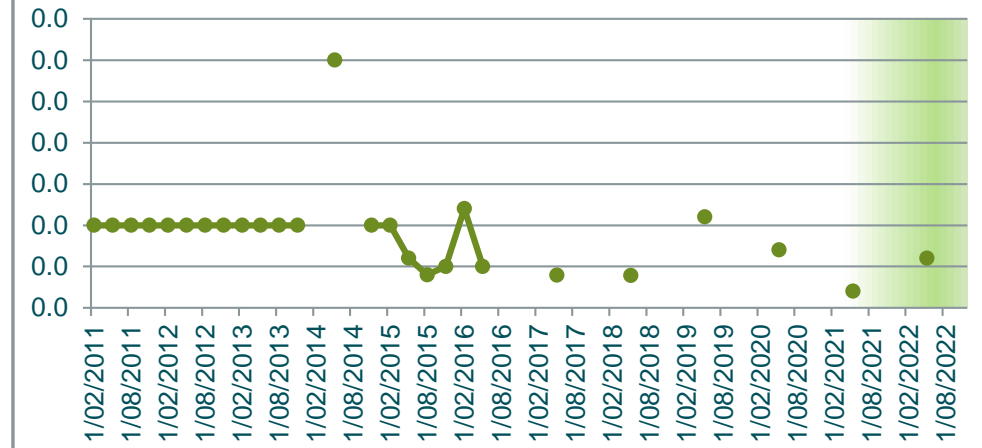
Magnesium (Total) mg/L



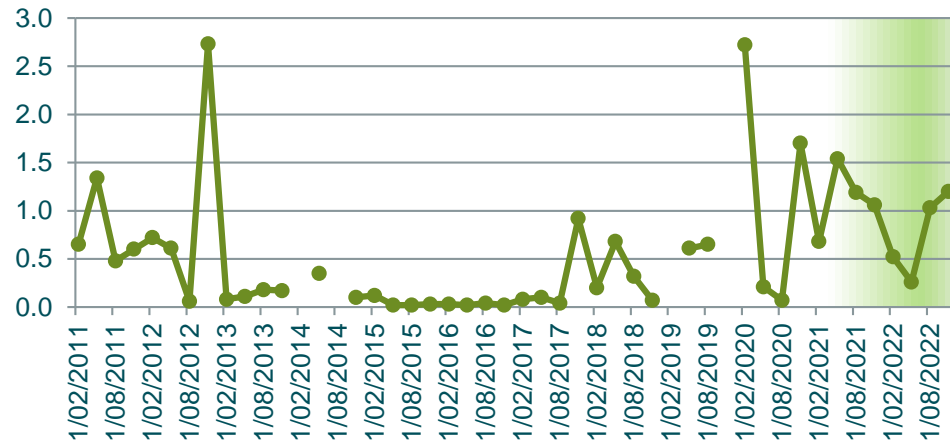
Manganese Total mg/L



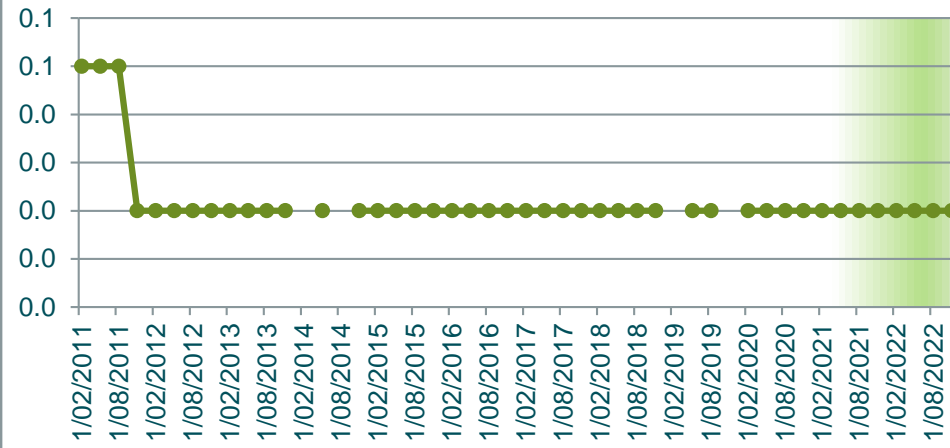
Nickel (Total) mg/L



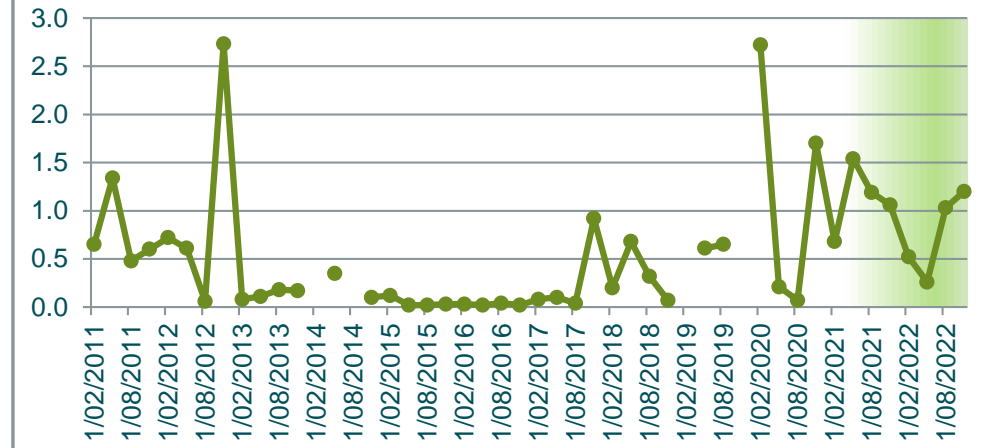
Nitrate N mg/L



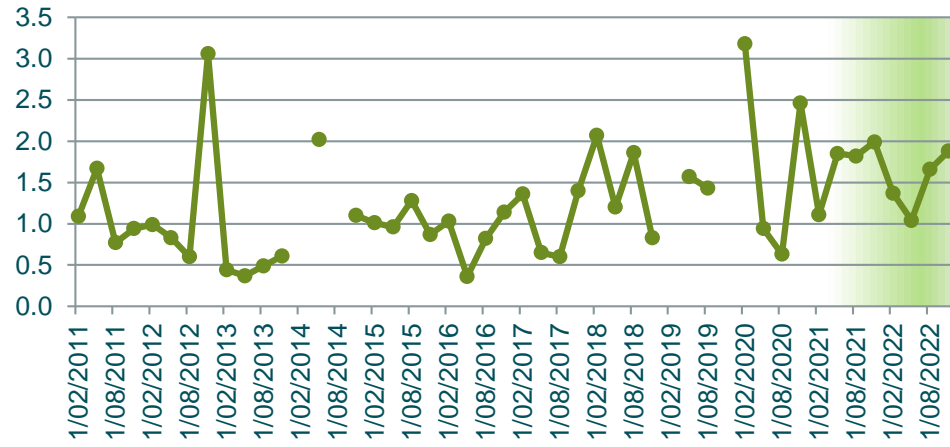
Nitrite N mg/L



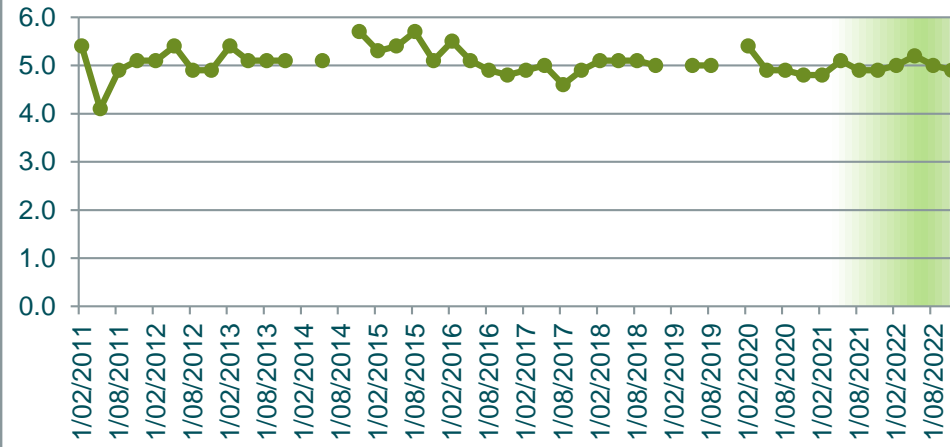
Nitrogen Oxidised mg/L



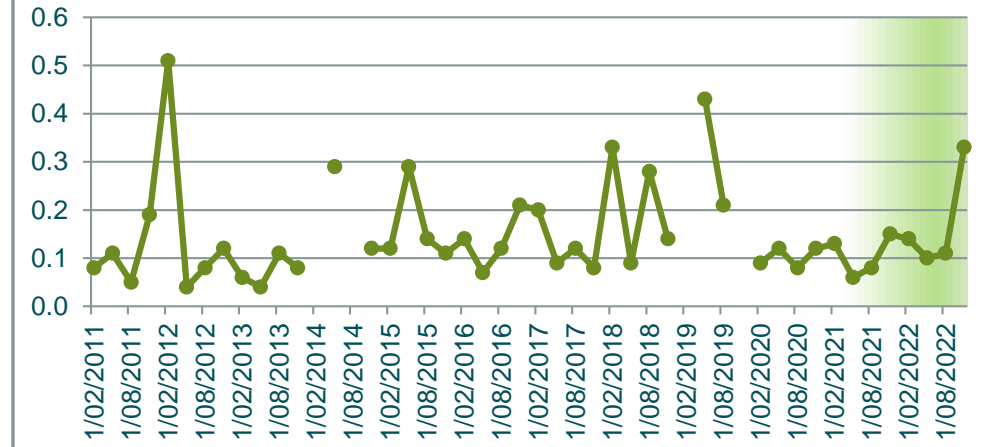
Nitrogen Total mg/L



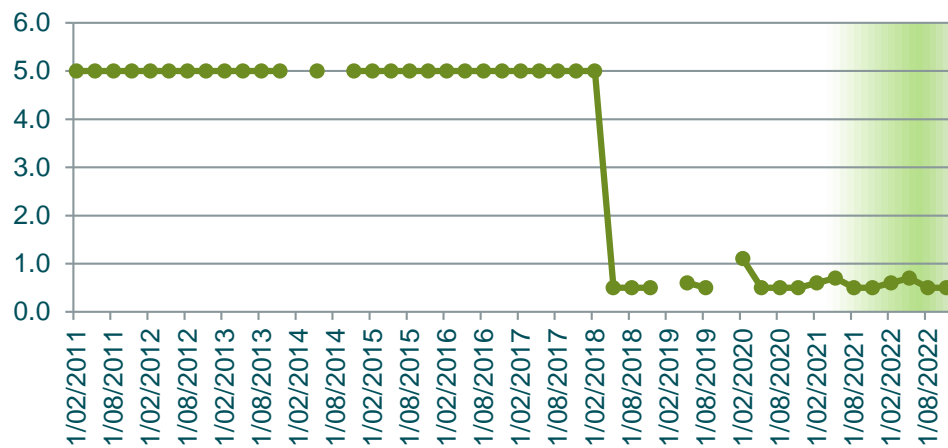
pH pH units



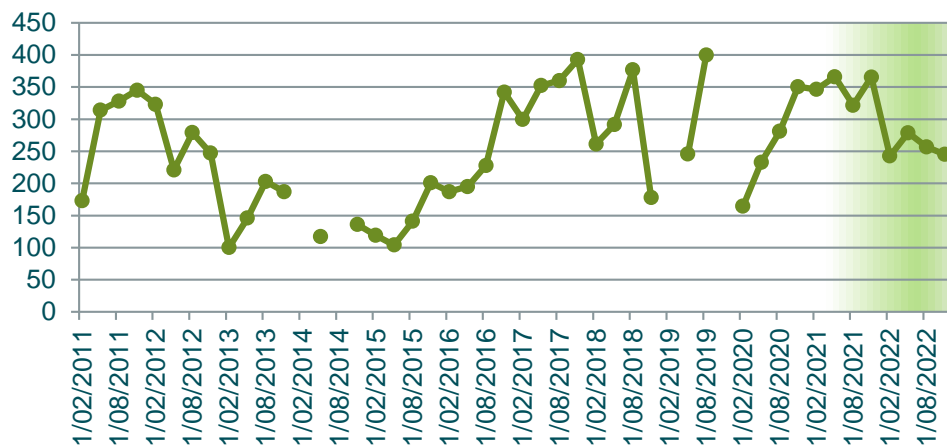
Phosphorus Total mg/L



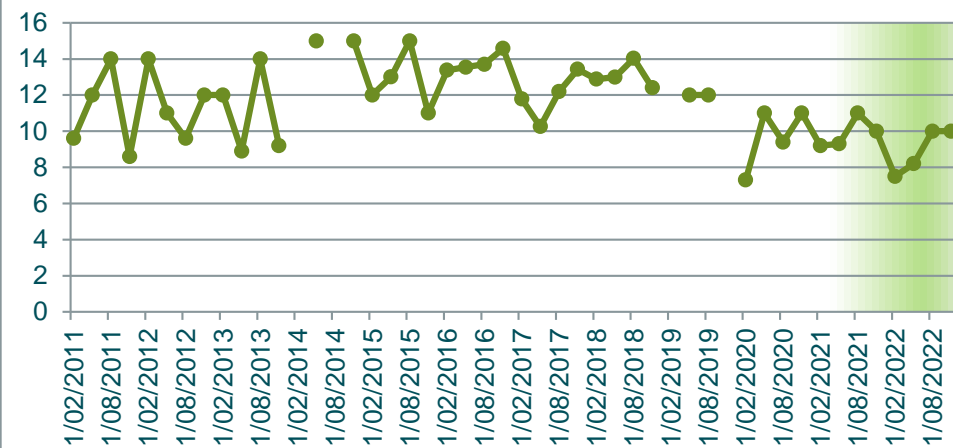
**Potassium Total
mg/L**



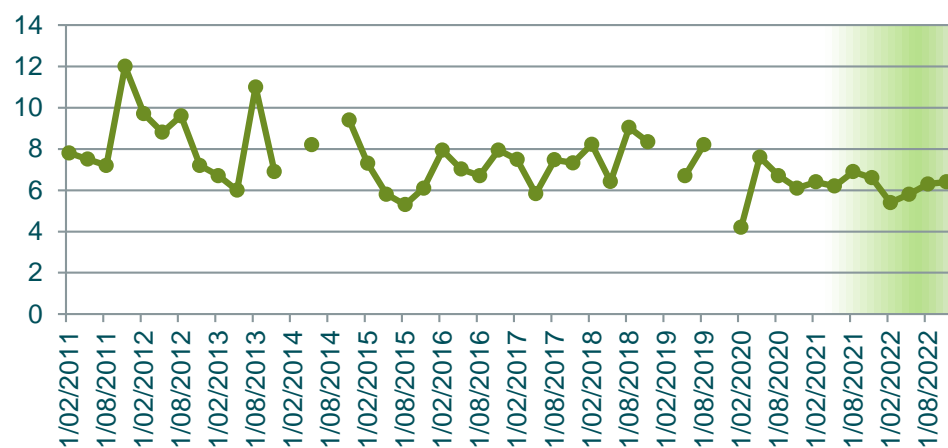
**Redox Potential
mV**



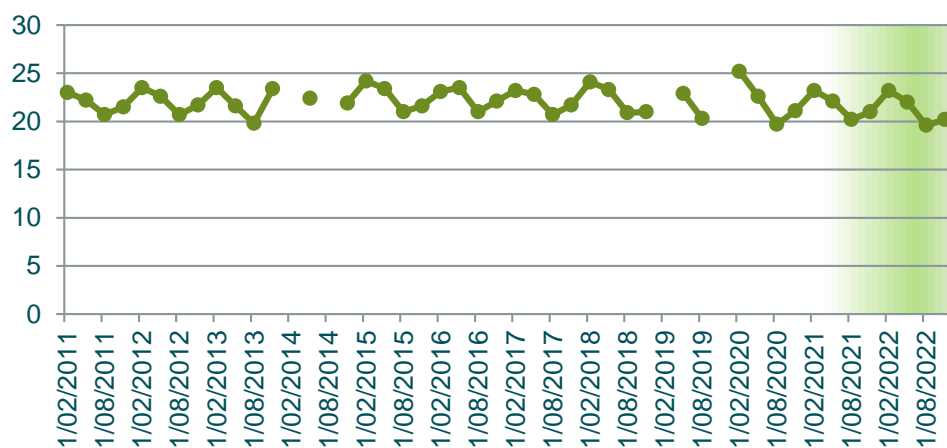
**Sodium (Total)
mg/L**



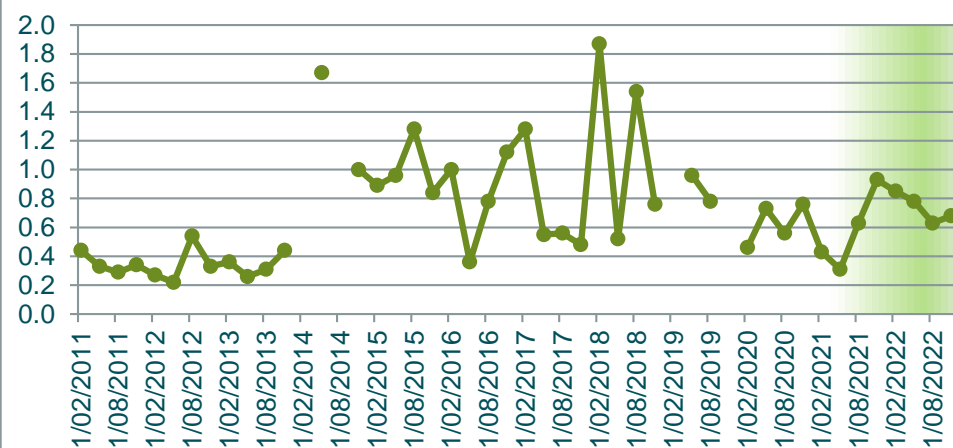
**Sulphate
mg/L**



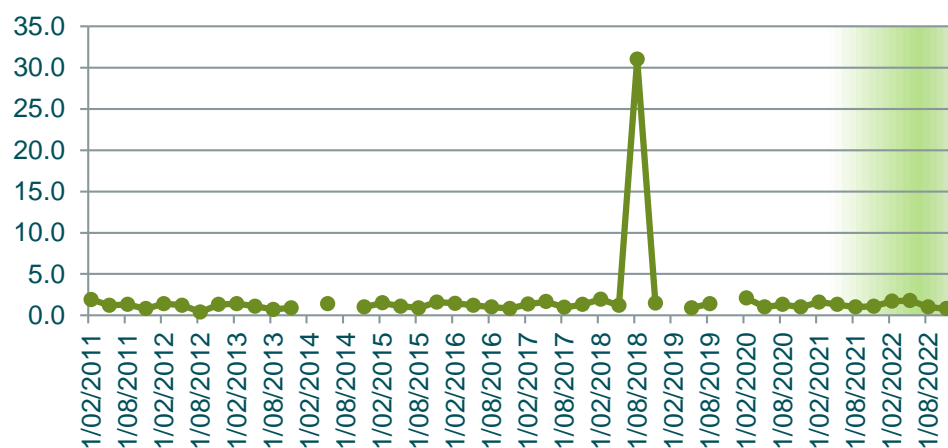
**Temperature
C**



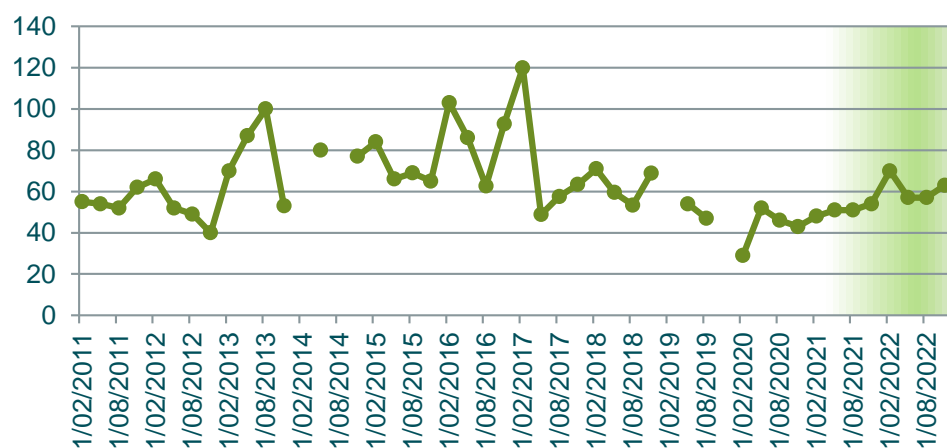
**TKN
mg/L**



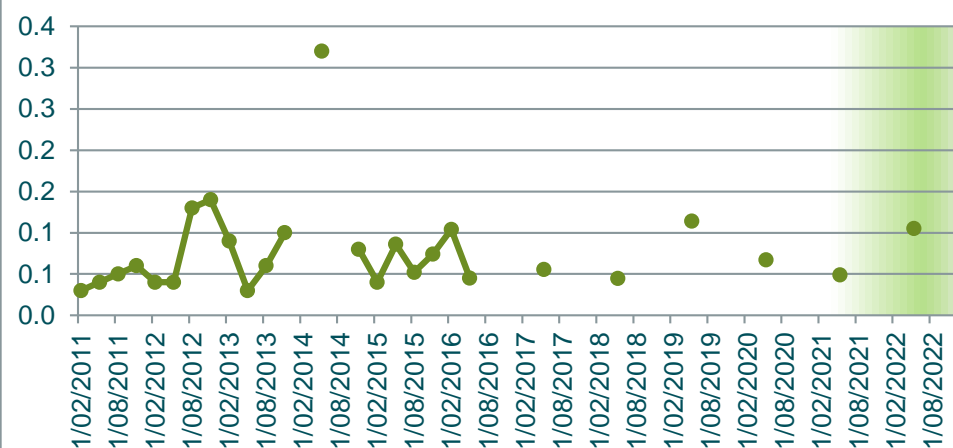
**TOC
mg/L**



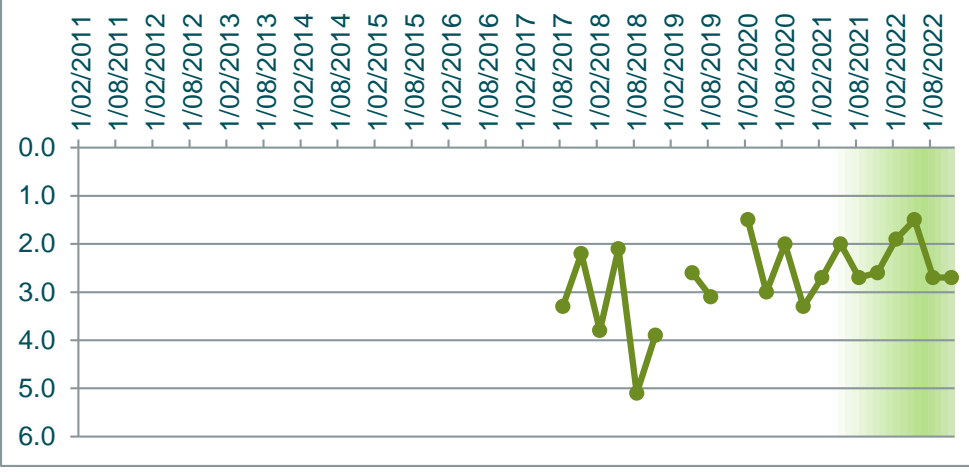
**Total Acidity
mg/L CaCO3**



**Zinc (Total)
mg/L**

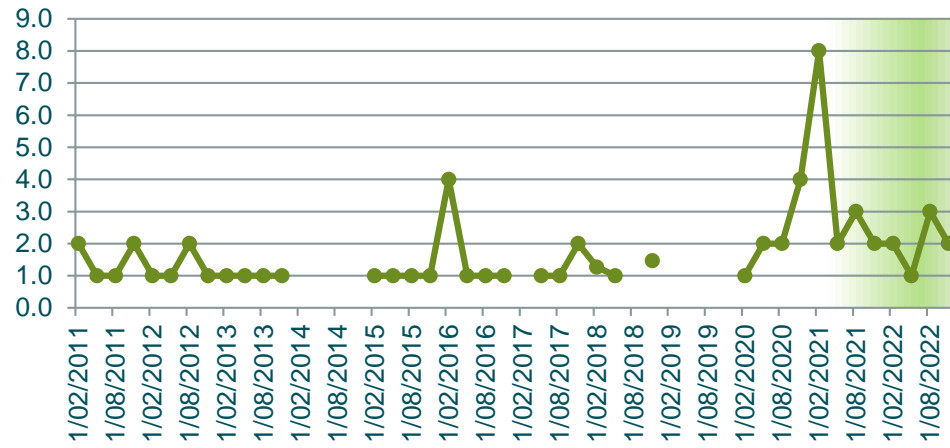


Depth to Groundwater m

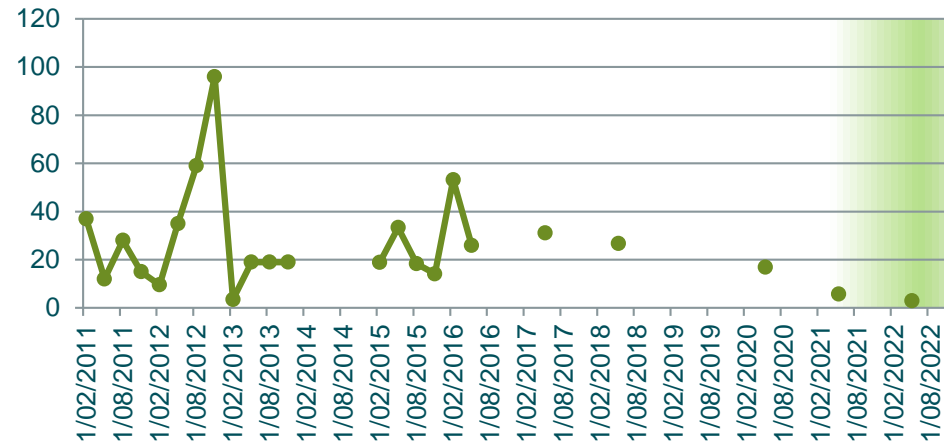


Depth to Groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH PH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity uS/cm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	BOD5 mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW14				
1/02/2011	2.0	37	0.1	0.0	1.0	1.0	0.0	0.8	35	0.0	0.0	0.0	137	0.0	3.9	0.0	45	0.1	0.9	0.1	0.0	0.3	0.1	0.3	0.5	4.9		0.2	5.0	202	13	7	24	0.2	2.7	45	0.0					
11/05/2011	1.0	12	0.1	0.0	NT	1.0	0.0	0.6	36	0.0	0.0	0.0	171	0.0	3.1	0.0	14	0.0	1.6	0.0	0.0	0.5	0.1	0.5	0.8	3.7		0.2	5.0	341	19	7	22	0.3	1.0	73	0.0					
10/08/2011	1.0	28	0.1	0.0	1.0	2.7	0.0	0.5	32	0.0	0.0	0.0	156	0.0	3.3	0.0	29	0.0	1.4	0.0	0.0	0.5	0.1	0.5	0.6	4.4		0.1	5.0	357	20	6	20	0.2	1.6	77	0.0					
9/11/2011	2.0	15	0.1	0.0	1.0	5.4	0.0	21.0	34	0.0	0.0	0.0	133	0.0	3.0	0.1	19	0.0	20.0	0.1	0.0	0.4	0.0	0.4	0.8	4.6		0.3	8.0	380	96	44	22	0.4	0.7	72	0.0					
7/02/2012	1.0	10	0.0	0.0	1.0	1.8	0.0	0.7	33	0.0	0.0	0.0	144	0.0	3.8	0.0	11	0.0	1.7	0.1	0.0	0.5	0.0	0.5	0.7	4.5		0.6	5.0	347	23	9	23	0.3	0.1	58	0.0					
9/05/2012	1.0	35	0.0	0.0	1.0	1.0	0.0	0.6	30	0.0	0.0	0.0	153	0.0	4.5	0.0	40	0.0	1.5	0.1	0.0	0.5	0.0	0.5	0.7	4.5		0.1	5.0	328	17	7	22	0.3	1.1	71	0.1					
7/08/2012	2.0	59	0.0	0.0	1.0	1.0	0.0	1.0	30	0.0	0.0	0.0	146	0.1	3.0	0.1	70	0.1	1.8	0.2	0.0	0.5	0.0	0.5	0.7	4.3		0.1	5.0	304	15	7	20	0.2	0.6	76	0.1					
14/11/2012	1.0	96	0.1	0.0	1.0	1.0	0.0	0.6	28	0.0	0.0	0.0	131	0.1	3.2	0.1	94	0.1	1.4	0.2	0.0	0.2	0.0	0.2	0.8	4.5		0.3	5.0	280	14	6	22	0.5	0.5	269	0.1					
14/02/2013	1.0	4	0.1	0.0		1.0	0.0	0.6	25	0.0	0.0	0.0	140	0.0	3.6	0.0	3	0.0	1.3	0.0	0.0	0.9	0.0	0.9	1.1	4.4		0.2	5.0	278	19	8	24	0.2	1.1	58	0.0					
15/05/2013	1.0	19	0.0	0.0	1.0	1.0	0.0	0.6	30	0.0	0.0	0.0	139	0.0	4.6	0.0	19	0.0	1.1	0.1	0.0	0.5	0.0	0.5	0.7	4.5		0.1	5.0	192	19	7	22	0.3	0.4	111	0.0					
7/08/2013	1.0	19	0.0	0.0	1.0	1.0	0.0	0.6	38	0.0	0.0	0.0	139	0.0	4.5	0.0	16	0.0	1.3	0.0	0.0	0.5	0.0	0.5	0.7	4.5		0.3	5.0	250	21	8	20	0.2	0.6	120	0.0					
13/11/2013	1.0	19	0.1	0.0	1.0	1.8	0.0	0.5	30	0.0	0.0	0.0	145	0.0	4.0	0.0	20	0.0	1.5	0.1	0.0	0.4	0.0	0.4	1.0	4.6		0.1	5.0	243	20	8	21	0.5	0.9	67	0.1					
11/02/2014																																										
13/05/2014																																										
12/08/2014																																										
10/11/2014																																										
10/02/2015	1.0	19	0.0	0.0	1.0	1.2	0.0	0.6	31	0.0	0.0	0.0	130	0.0	4.3	0.0	17	0.0	1.3	0.1	0.0	0.6	0.0	0.6	1.4	4.6		0.1	5.0	213	17	8	23	0.8	0.7	66	0.1					
12/05/2015	1.0	33	0.0	0.0	1.0	2.1	0.0	0.6	29	0.0	0.0	0.0	129	0.0	5.3	0.0	25	0.0	1.5	0.1	0.0	0.5	0.0	0.5	1.2	4.5		0.1	5.0	226	21	6	22	0.7	0.3	68	0.1					
12/08/2015	1.0	18	0.0	0.0	1.0	1.0	0.0	0.6	30	0.0	0.0	0.0	129	0.0	4.9	0.0	15	0.0	1.5	0.1	0.0	0.4	0.0	0.4	0.8	4.6		0.1	5.0	232	20	6	20	0.4	0.4	74	0.0					
11/11/2015	1.0	14	0.0	0.0	1.0	1.0	0.0	0.8	23	0.0	0.0	0.0	121	0.0	4.8	0.0	10	0.0	1.4	0.1	0.0	1.4	0.0	1.4	1.6	4.5		0.1	5.0	222	16	6	21	0.3	0.6	64	0.0					
9/02/2016	4.0	53	0.0	0.0	4.0	1.0	0.0	0.5	26	0.0	0.0	0.0	122	0.0	3.9	0.0	44	0.0	1.4	0.1	0.0	0.7	0.0	0.7	1.7	4.5		0.1	5.0	245	18	6	22	1.0	0.7	145	0.0					
10/05/2016	1.0	26	0.0	0.0	1.0	1.0	0.0	0.5	28	0.0	0.0	0.0	127	0.0	2.0	0.0	25	0.0	1.3	0.1	0.0	0.5	0.0	0.5	0.8	4.5		0.1	5.0	242	17	6	23	0.3	0.4	86	0.0					
10/08/2016	1.0		0.0		1.0	1.0		0.6	26				126		4.2	0.0			1.3			0.7	0.0	0.7	1.6	4.4		0.1	5.0	250	19	6	20	0.9	0.5	103						
8/11/2016	1.0		0.0		1.0	1.0		0.6	13				124		2.8	0.0			1.6			0.4	0.0	0.4	1.0	4.4		0.1	5.0	445	19	6	21	0.6	1.0	119						
7/02/2017																																										
9/05/2017	1.0	31	0.0	0.0		1.0	0.0	1.6	17	0.0	0.0	0.0	109	0.0	6.8	0.0	32	0.0	1.7	0.1	0.0	3.0	0.0	3.0	3.6	4.4		0.1	5.0	435	13	5	22	0.6	1.0	54	0.0					
9/08/2017	1.0		0.0			1.0		0.6	80				126		4.2	0.0			1.2			0.5	0.0	0.5	1.2	4.3		0.2	5.0	345	17	7	20	0.8	0.9	89						
8/11/2017	2.0		0.0		2.0	1.0		0.5	28				125		4.0	0.0			1.5			0.6	0.0	0.6	1.0	4.3		0.1	5.0	468	19	6	21	0.4	1.2	82						
14/02/2018	1.3		0.1		1.0	3.3		0.2	26				122		4.6	0.0			0.6			0.5	0.0	0.5	2.7	5.0		0.3	5.0	242	17	8	24	2.2	0.8	229						
9/05/2018	1.0	27	0.0	0.0		1.2	0.0	0.5	29	0.0	0.0	0.0	121	0.0	3.9	0.0	24	0.0	1.3	0.1	0.0	0.8	0.0	0.8	1.4	4.6		0.1	0.5	322	17	7	23	0.6	1.1	72	0.0					

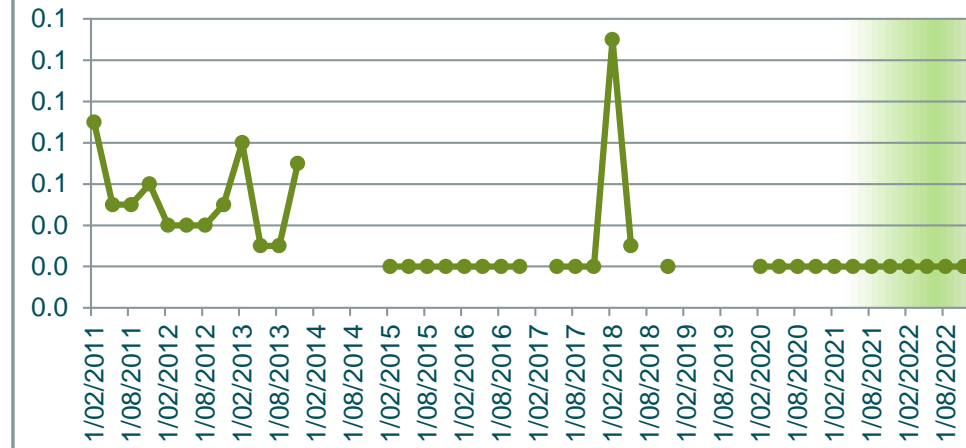
Alkalinity mg/L as CaCO3



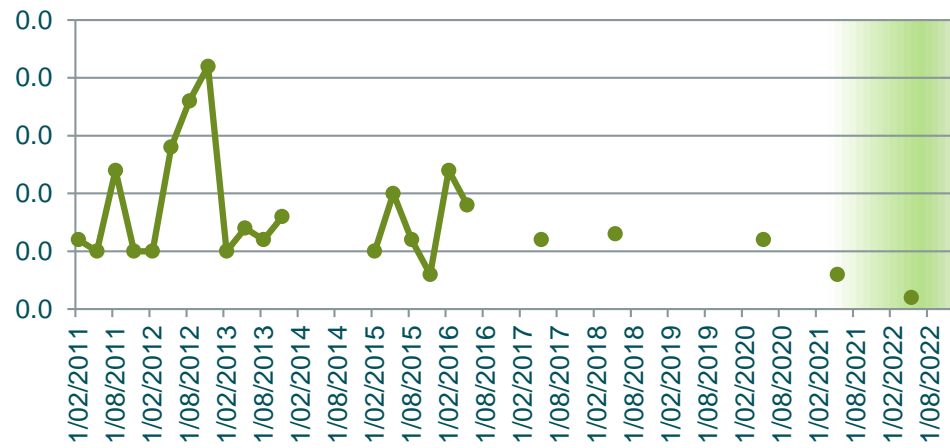
Aluminium (Total) mg/L



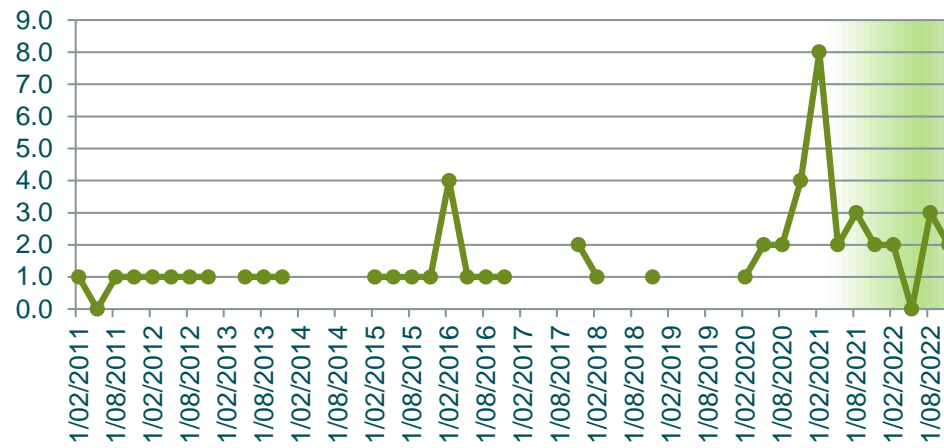
Ammonia mg/L



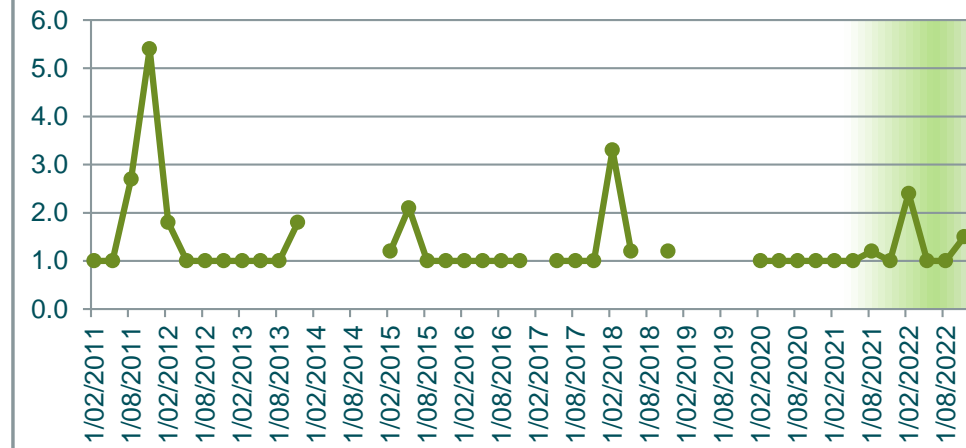
Arsenic (Total) mg/L



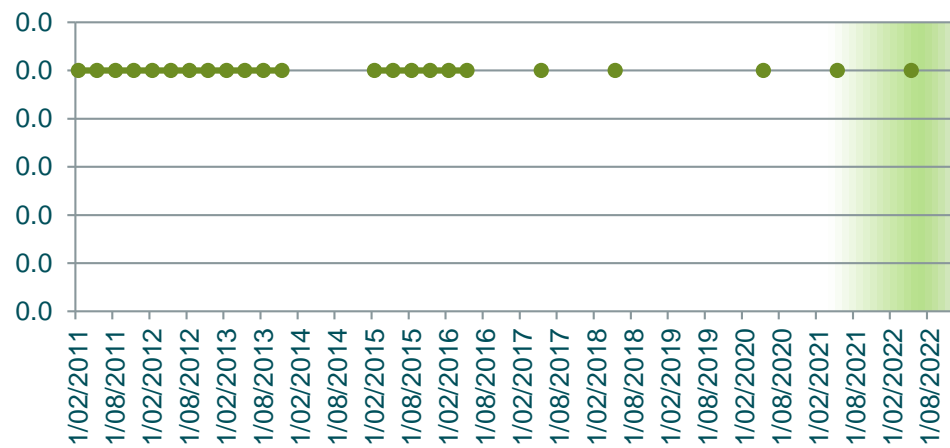
Bicarbonate HCO3 mg/L



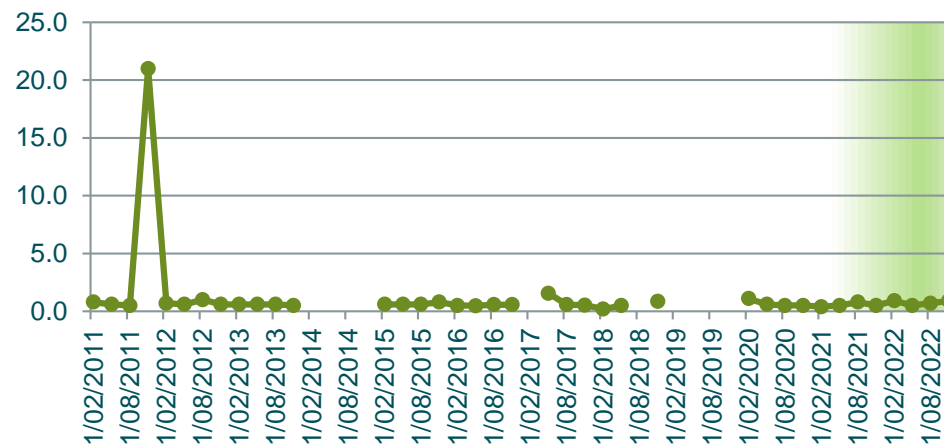
BOD5 mg/L



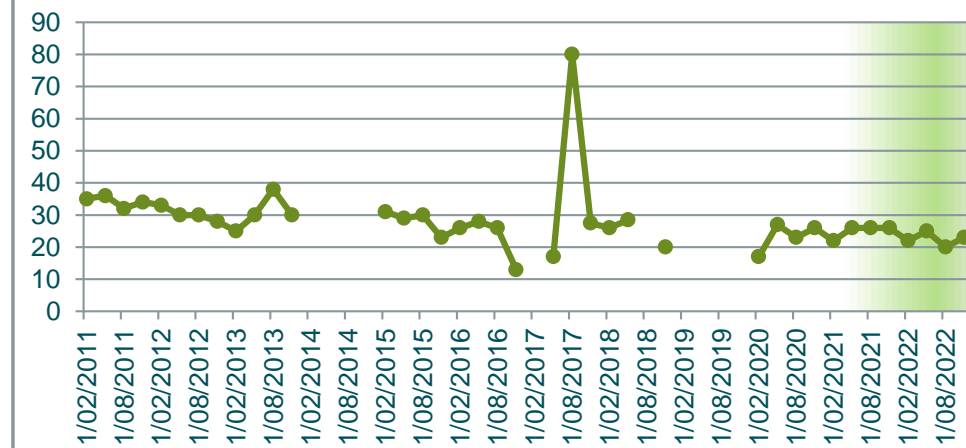
Cadmium (Total) mg/L



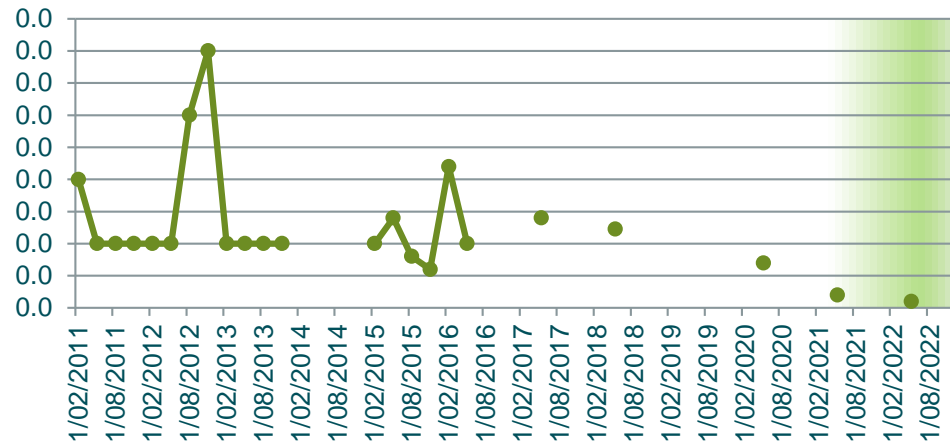
Calcium (Total) mg/L



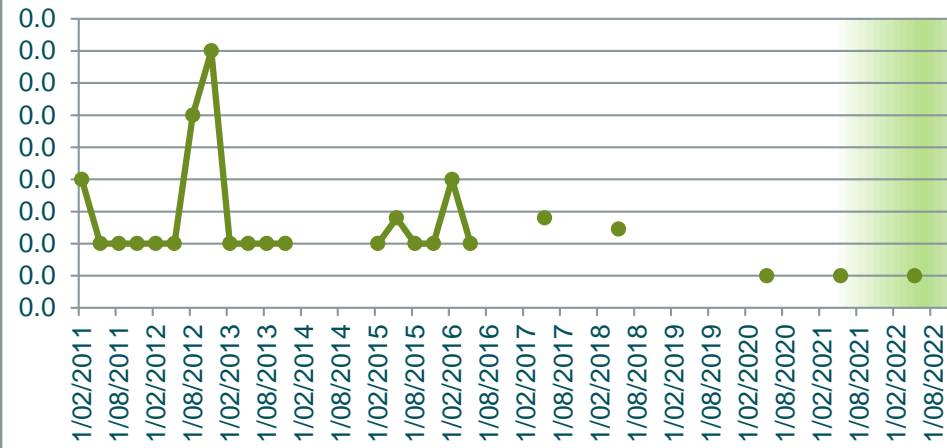
Chloride mg/L



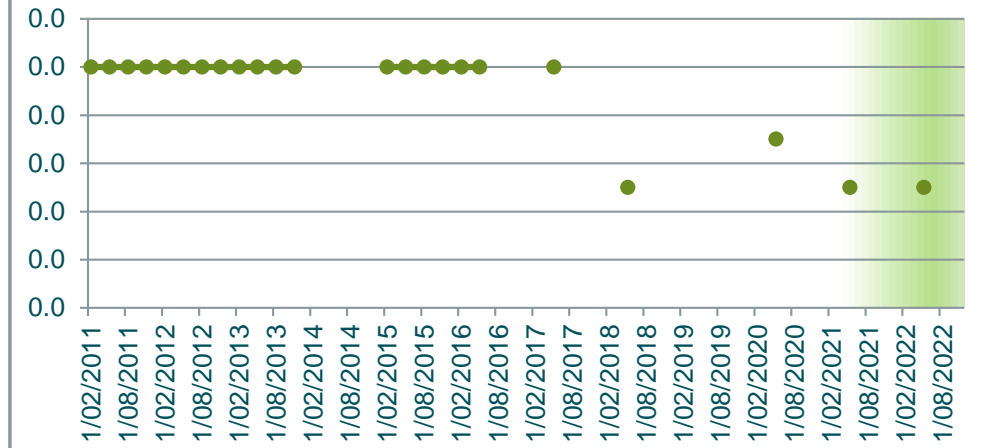
Chromium (Total) mg/L



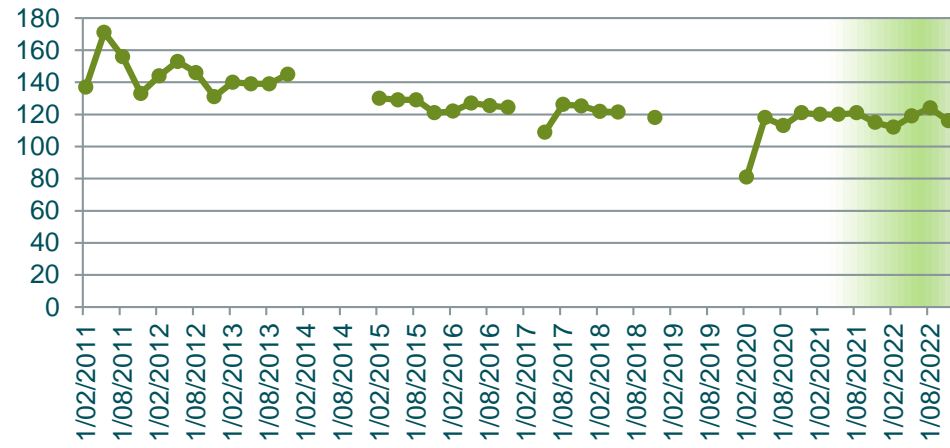
Chromium 3 mg/L



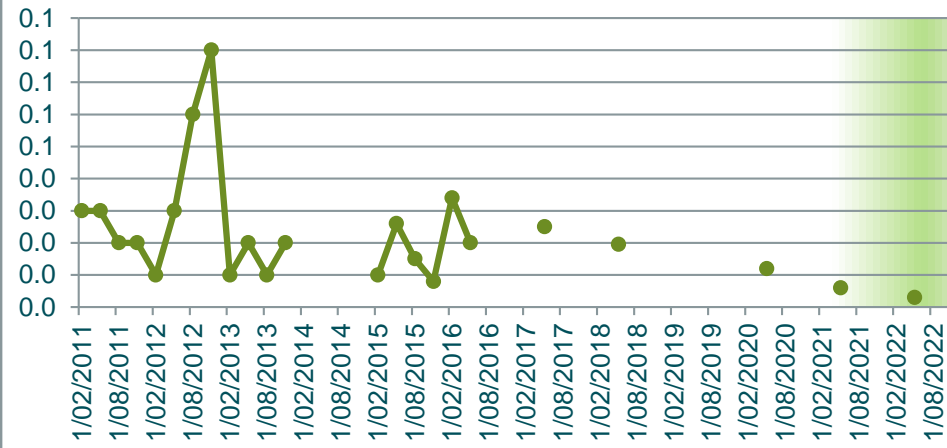
Chromium 6 mg/L



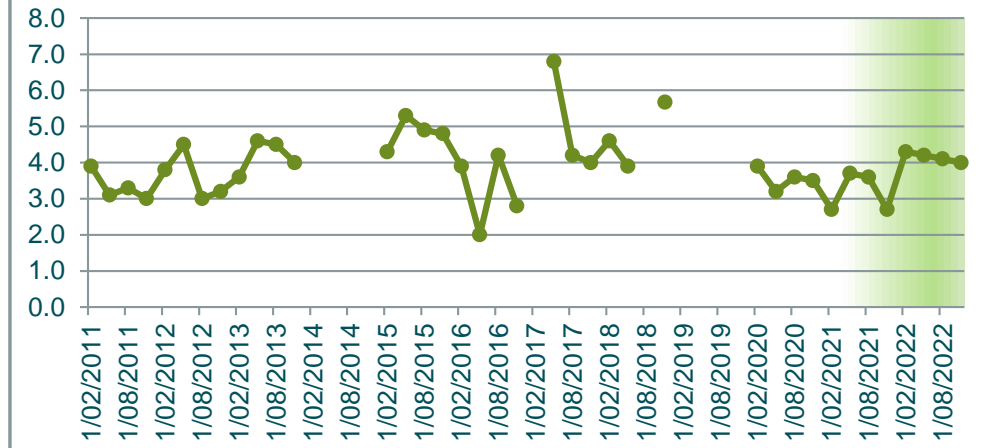
Conductivity μScm^{-1}



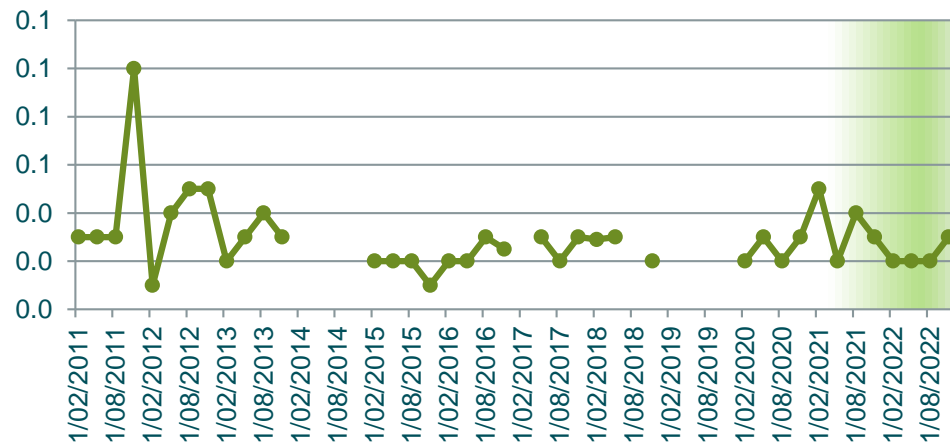
Copper (Total) mg/L



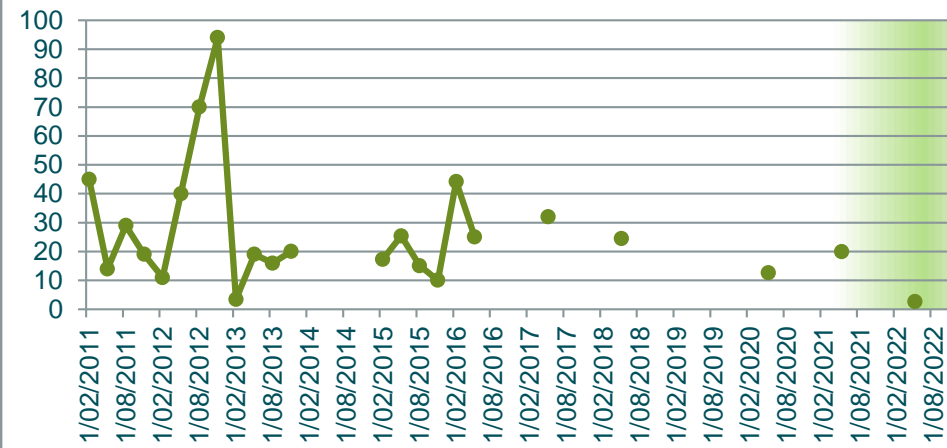
DO (Membrane Electrode) mg/L



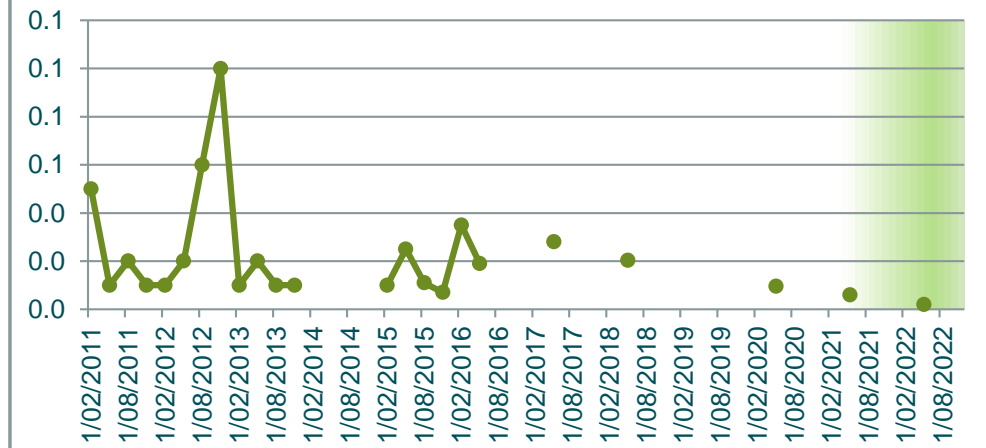
Flouride mg/L



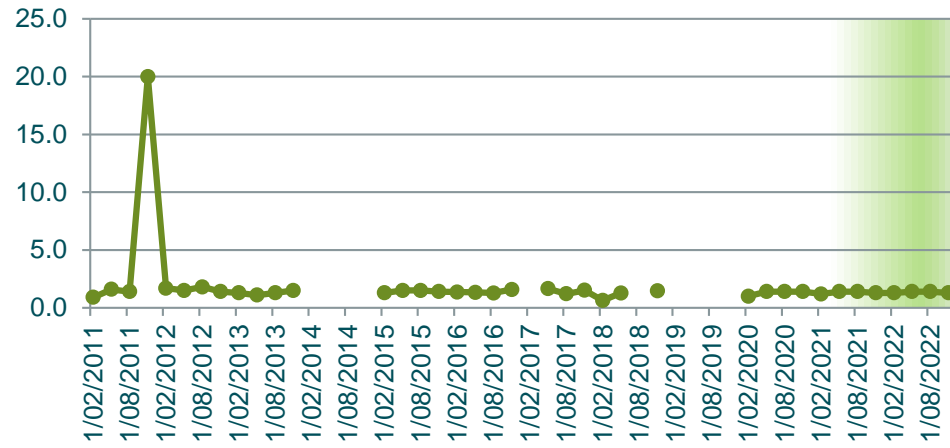
Iron Total mg/L



Lead (Total) mg/L



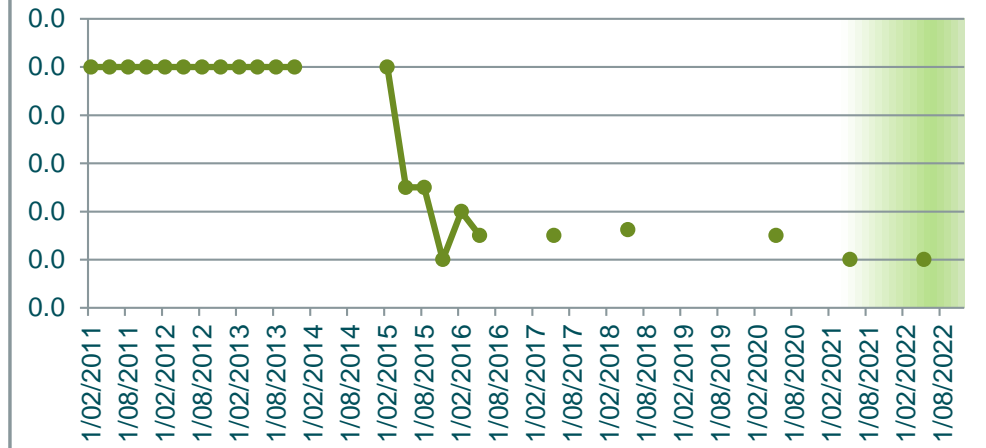
**Magnesium (Total)
mg/L**



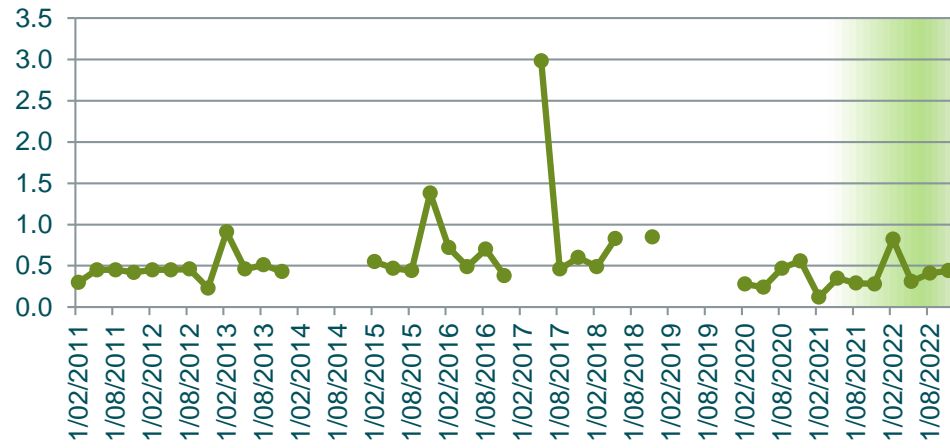
**Manganese Total
mg/L**



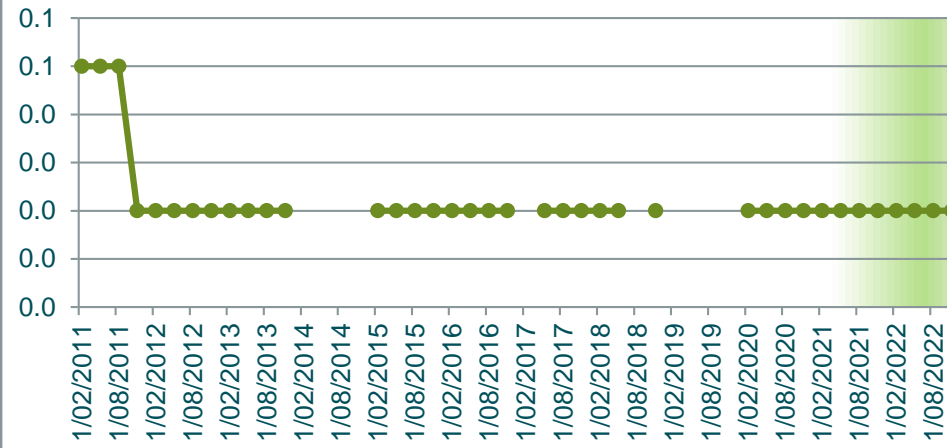
**Nickel (Total)
mg/L**



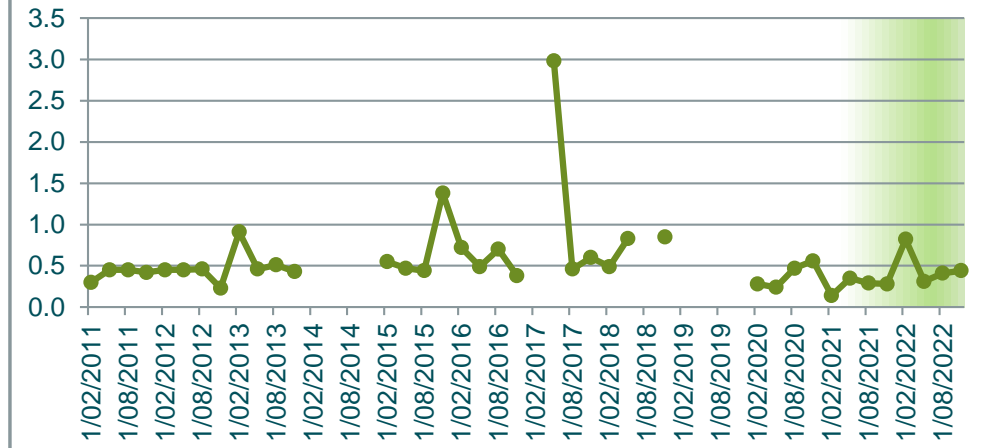
**Nitrate
N mg/L**



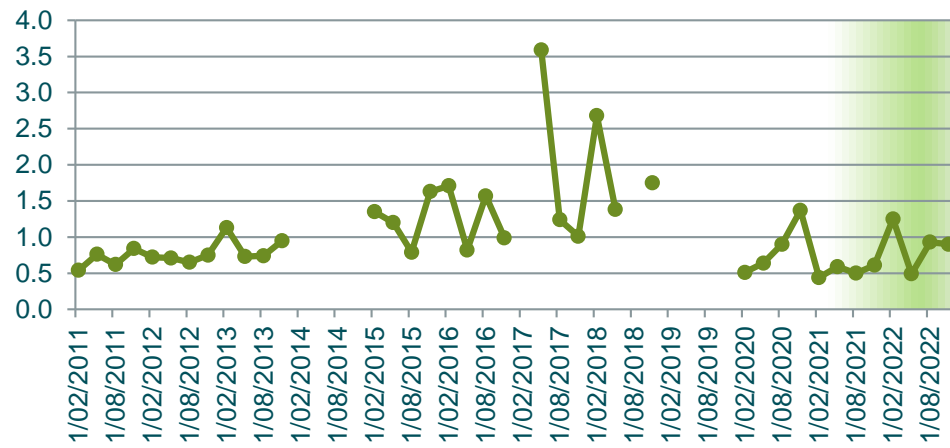
**Nitrite
N mg/L**



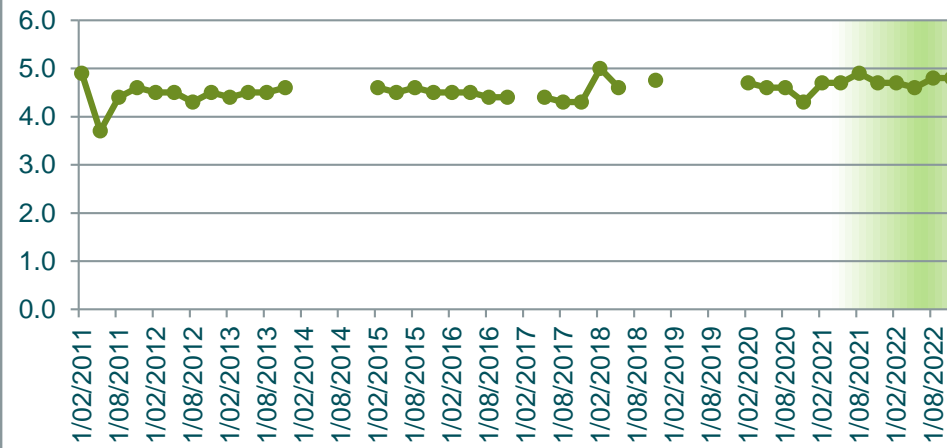
**Nitrogen Oxidised
mg/L**



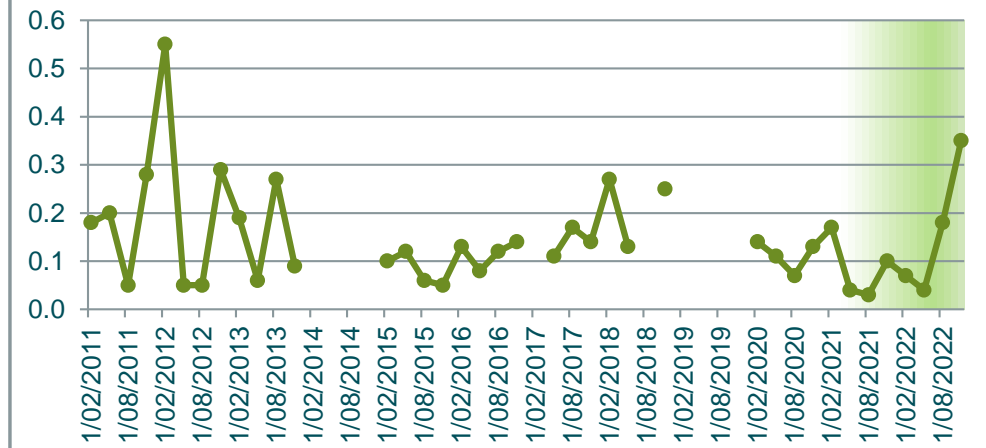
**Nitrogen Total
mg/L**



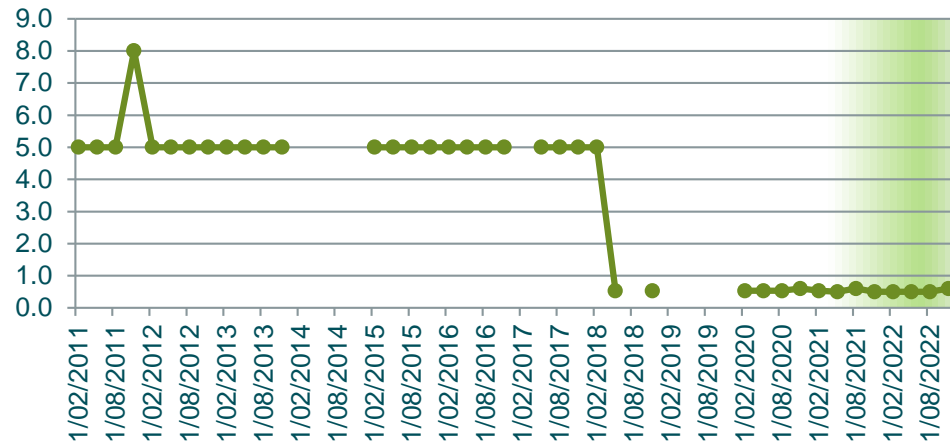
**pH
pH units**



**Phosphorus Total
mg/L**



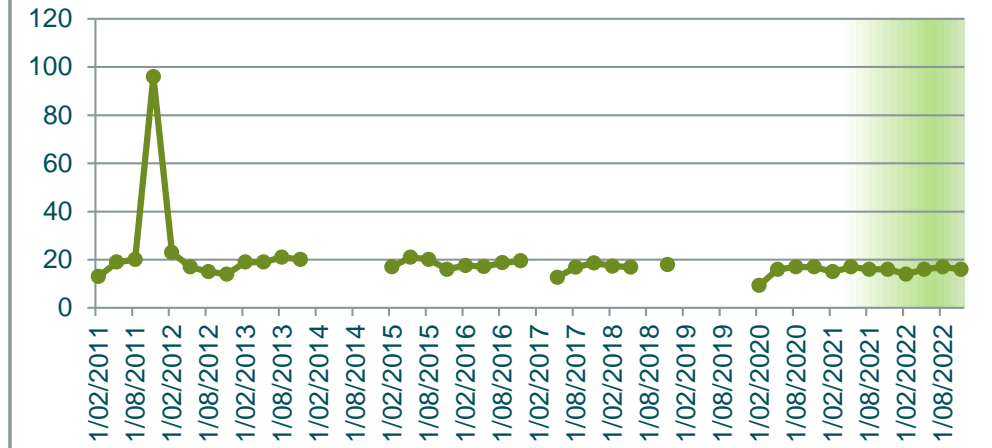
Potassium Total mg/L



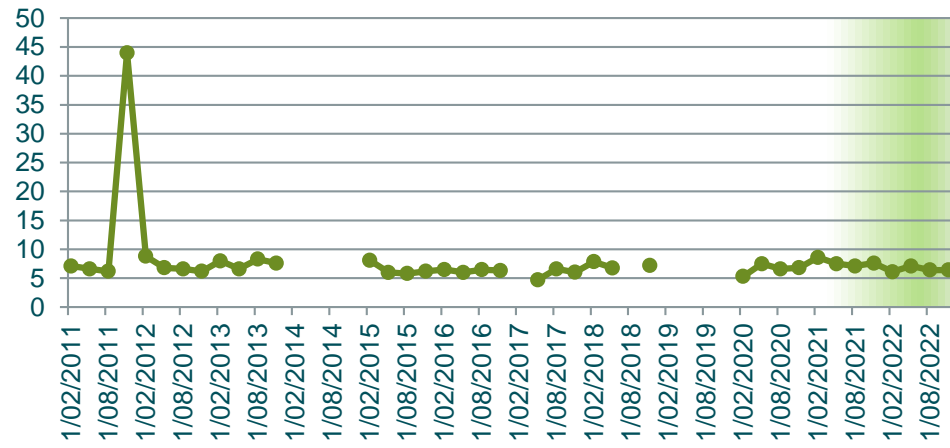
Redox Potential mV



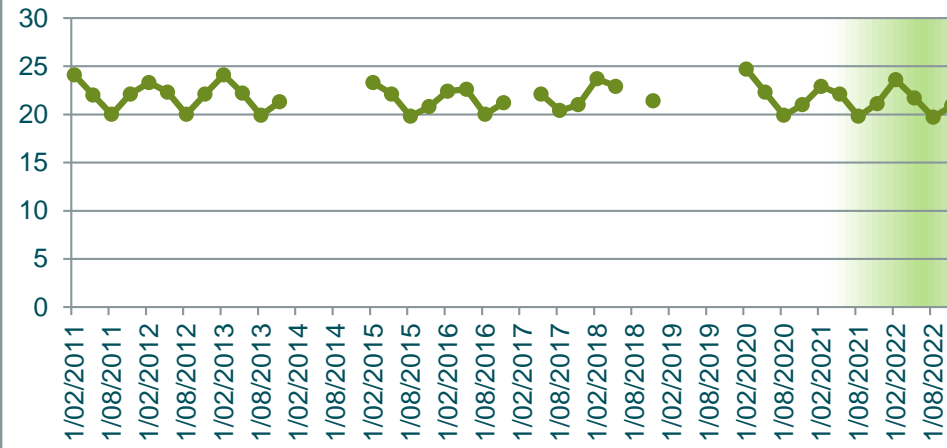
Sodium (Total) mg/L



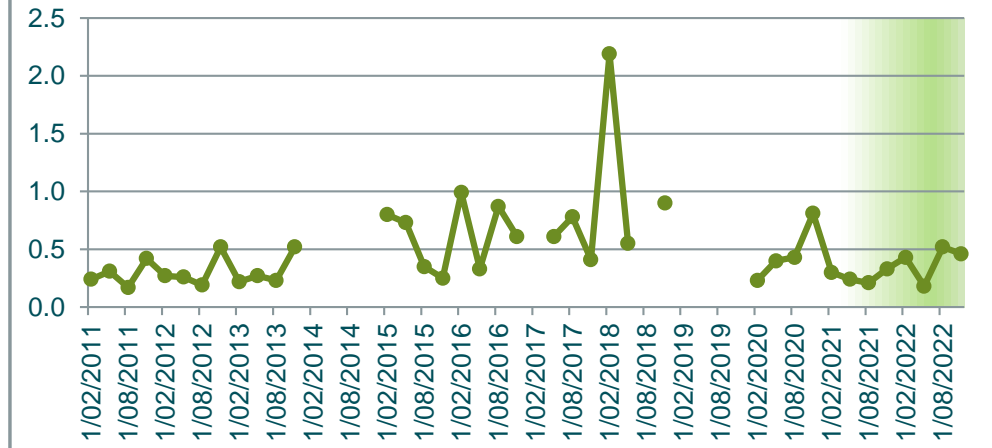
Sulphate mg/L



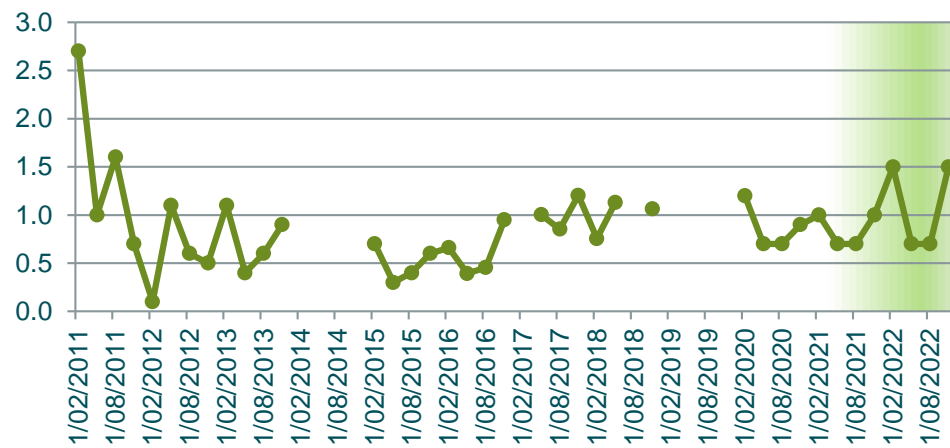
Temperature C



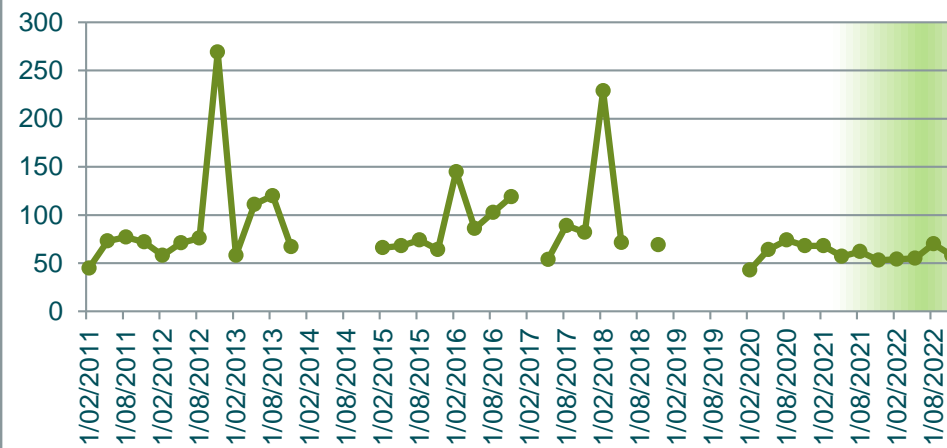
TKN mg/L



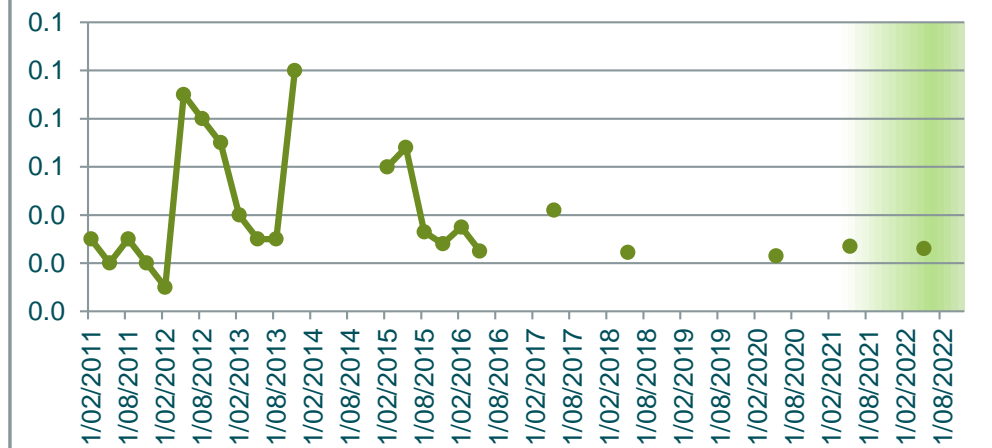
TOC mg/L



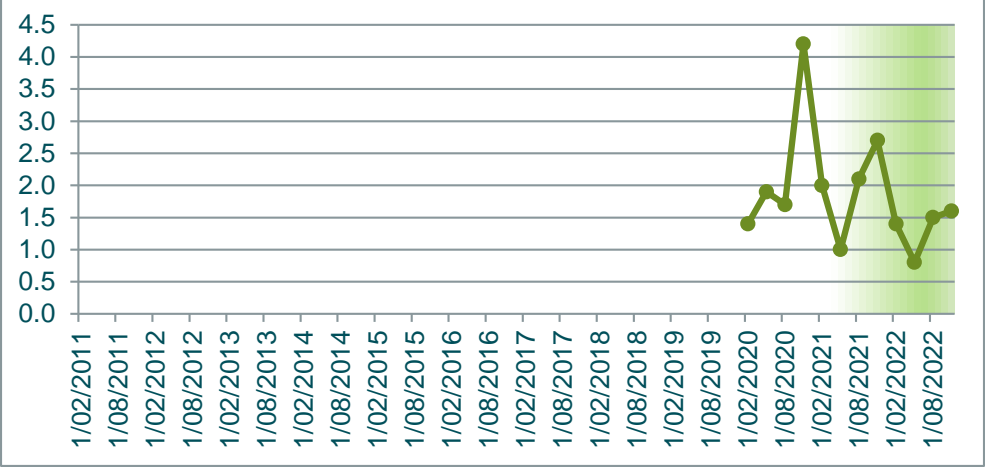
Total Acidity mg/L CaCO3



Zinc (Total) mg/L



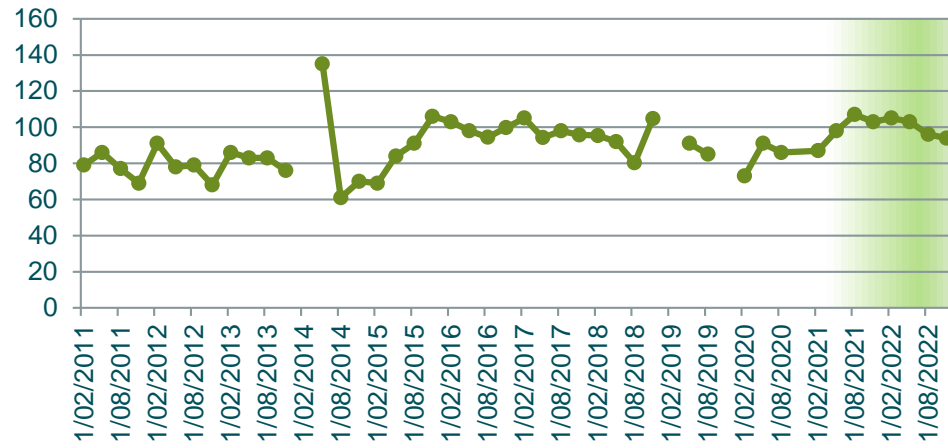
Depth to Groundwater m



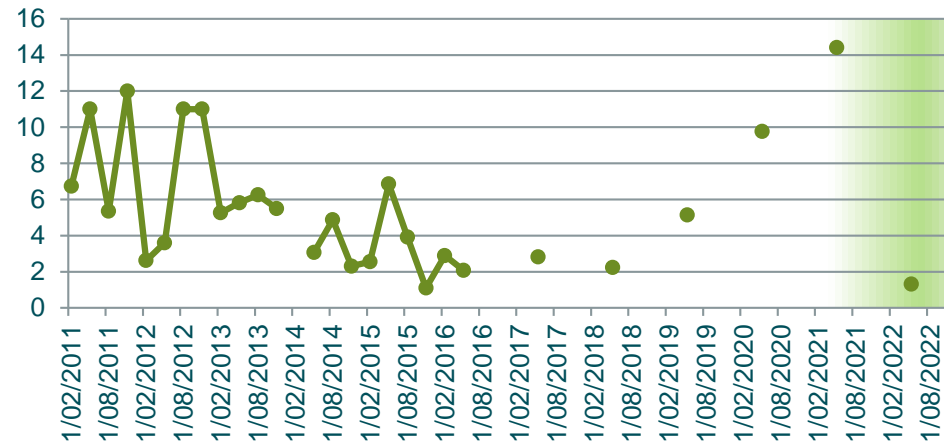
Depth to groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH PH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity µS/cm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	BOD5 mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW15		
1/02/2011	79	7	0.2	0.0	48	1.2	0.0	24	270	0.0	0.0	0.0	958	0.0	3.5	0.2	12	0.0	16	0.3	0.0	0.1	0.1	0.1	0.7	6.1		0.1	5.0	45	95	54	23	0.6	2.0	85	0.1			
11/05/2011	86	11	0.1	0.0	52	2.4	0.0	24	258	0.0	0.0	0.0	1086	0.0	4.0	0.2	23	0.0	19	0.5	0.0	0.1	0.1	0.1	0.6	5.6		0.1	5.0	260	128	42	20	0.6	2.2	30	0.1			
10/08/2011	77	5	0.1	0.0	47	2.4	0.0	21	23	0.0	0.0	0.0	975	0.0	4.7	0.2	15	0.0	18	0.4	0.0	0.1	0.1	0.1	0.4	6.0		0.1	5.0	270	138	38	17	0.3	3.6	76	0.0			
9/11/2011	69	12	0.1	0.0	42	6.3	0.0	1	208	0.0	0.0	0.0	837	0.0	3.0	0.2	22	0.0	2	0.9	0.0	0.1	0.0	0.1	0.2	5.9		0.2	5.0	240	22	31	22	0.2	1.7	92	0.0			
7/02/2012	91	3	0.1	0.0	56	1.0	0.0	21	187	0.0	0.0	0.0	867	0.0	2.2	0.2	13	0.0	17	0.3	0.0	0.1	0.0	0.1	0.5	5.9		0.1	5.0	242	147	40	23	0.4	2.2	100	0.0			
9/05/2012	78	4	0.0	0.0	48	1.0	0.0	20	200	0.0	0.0	0.0	953	0.0	4.5	0.2	22	0.0	16	0.4	0.0	0.1	0.0	0.1	0.3	5.8		0.2	5.0	249	110	35	21	0.2	1.2	68	0.1			
7/08/2012	79	11	0.0	0.0	48	1.0	0.0	19	205	0.0	0.0	0.0	923	0.0	5.8	0.2	24	0.0	15	0.5	0.0	0.1	0.0	0.1	0.5	6.1		0.0	5.0	222	102	35	16	0.5	1.3	59	0.1			
14/11/2012	68	11	0.1	0.0	41	1.0	0.0	26	178	0.0	0.0	0.0	838	0.0	3.6	0.2	22	0.0	18	0.4	0.0	0.1	0.0	0.1	0.8	5.7		0.3	5.0	93	92	47	21	0.7	7.4	96	0.1			
14/02/2013	86	5	0.1	0.0	52	1.0	0.0	21	150	0.0	0.0	0.0	769	0.0	4.2	0.1	14	0.0	15	0.3	0.0	0.1	0.0	0.1	0.6	6.1		0.0	5.0	15	107	40	23	0.5	6.7	73	0.1			
15/05/2013	83	6	0.0	0.0	51	1.0	0.0	21	196	0.0	0.0	0.0	880	0.0	5.2	0.2	26	0.0	15	0.4	0.0	0.1	0.0	0.1	0.5	6.1		0.0	5.0	134	115	36	20	0.4	2.2	89	0.0			
7/08/2013	83	6	0.0	0.0	51	1.0	0.0	23	208	0.0	0.0	0.0	926	0.0	4.4	0.2	16	0.0	19	0.5	0.0	0.1	0.0	0.1	0.4	6.0		0.1	5.0	160	131	46	17	0.3	2.3	189	0.0			
13/11/2013	76	6	0.1	0.0	46	1.2	0.0	26	185	0.0	0.0	0.0	919	0.0	2.9	0.3	16	0.0	18	0.4	0.0	1.2	0.0	1.2	1.5	6.0		0.1	5.0	89	125	55	22	0.3	5.0	105	0.1			
11/02/2014																																								
14/05/2014	135	3	1.7	0.0	82	14.0	0.0	20	112	0.0	0.0	0.0	687	0.0	2.6	0.3	27	0.0	12	0.3	0.0	0.2	0.0	0.2	4.2	6.3		0.2	5.0	-27	76	23	21	3.9	16.3	112	0.1			
13/08/2014	61	5	0.0	0.0	37	1.8	0.0	18	125	0.0	0.0	0.0	634	0.0	5.5	0.2	13	0.0	13	0.2	0.0	0.1	0.0	0.1	1.1	6.9		0.1	5.0	156	92	46	18	1.0	8.8	84	0.1			
11/11/2014	70	2	0.1	0.0	43	2.1	0.0	17	137	0.0	0.0	0.0	671	0.0	3.1	0.2	6	0.0	13	0.5	0.0	0.1	0.0	0.1	0.7	6.1		0.1	5.0	83	98	52	21	0.6	6.7	117	0.1			
10/02/2015	69	3	0.0	0.0	42	1.5	0.0	17	120	0.0	0.0	0.0	651	0.0	4.0	0.2	7	0.0	11	0.2	0.0	0.6	0.0	0.6	1.5	6.2		0.1	5.0	48	81	58	24	0.9	9.2	87	0.0			
12/05/2015	84	7	0.0	0.0	51	1.0	0.0	21	160	0.0	0.0	0.0	762	0.0	4.7	0.2	9	0.0	16	0.2	0.0	0.1	0.0	0.1	0.5	6.0		0.1	5.0	155	110	44	20	0.4	4.0	115	0.0			
12/08/2015	91	4	0.0	0.0	91	1.0	0.0	25	178	0.0	0.0	0.0	829	0.0	5.0	0.2	11	0.0	18	0.5	0.0	0.1	0.0	0.1	0.4	6.1		0.0	5.0	203	124	36	17	0.3	3.6	122	0.0			
11/11/2015	106	1	2.6	0.0	106	18.0	0.0	19	142	0.0	0.0	0.0	754	0.0	1.8	0.2	11	0.0	14	1.2	0.0	0.0	0.0	0.0	6.4	6.1		0.4	5.0	29	96	39	21	6.4	31.0	147	0.0			
9/02/2016	103	3	0.2	0.0	103	3.3	0.0	18	118	0.0	0.0	0.0	651	0.0	3.7	0.2	9	0.0	13	0.3	0.0	0.2	0.0	0.2	1.5	6.2		0.3	5.0	21	93	28	23	1.3	13.1	125	0.0			
10/05/2016	98	2	0.0	0.0	98	1.8	0.0	19	145	0.0	0.0	0.0	759	0.0	3.6	0.3	5	0.0	14	0.1	0.0	0.1	0.0	0.1	0.6	6.2		0.2	5.0	173	106	33	22	0.5	7.7	98	0.0			
10/08/2016	94		0.0		94	2.7		21	168				810		6.0	0.2			15			0.0	0.0	0.0	0.4	6.1		0.1	5.0	246	118	41	17	0.4	4.9	86				
8/11/2016	100		0.0		100	1.0		21	176				816		2.8	0.2			16			0.0	0.0	0.0	0.4	5.9		0.1	5.0	334	119	41	21	0.4	4.5	143				
8/02/2017	105		0.1		105	1.0		19	160				804		3.6	0.2			15			0.1	0.0	0.1	0.8	5.9		0.1	5.0	261	110	38	24	0.7	9.0	189				
9/05/2017	94	3	0.0	0.0	94	1.0	0.0	19	155	0.0	0.0	0.0	755	0.0	5.2	0.2	6	0.0	14	0.1	0.0	0.1	0.0	0.1	0.7	6.1		0.1	5.0	409	109	43	21	0.6	9.6	96	0.0			
9/08/2017	98		0.0		98	2.1		19	150				787		6.1	0.2			14			0.0	0.0	0.0	0.6	6.2		0.1	5.0	402	110	39	17	0.5	5.9	69		0.9		
8/11/2017	96		0.0		96	1.5		19	23				786		4.6	0.2			14			0.5	0.0	0.5	1.1	5.7		0.1	5.0	358	109	39	21	0.6	6.8	105		0.9		
14/02/2018	95		0.0		95	1.8		17	122				710		3.7	0.3			12			0.1	0.0	0.1	0.6	6.0		0.1	5.0	182	102	50	24	0.5	8.6	101		1.5		
9/05/2018	92	2	0.0	0.0	92	1.0	0.0	17	149	0.0	0.0	0.0	764	0.0	5.6	0.3	5	0.0	13	0.1	0.0	0.0	0.0	0.4	6.3		0.1	1.6	339	109	44	21	0.4	6.2	59	0.0	0.7			

15/08/2018	80		0.0		80	2.7		18	160				748		6.2	0.2			13			0.0	0.0	0.0	0.4	6.4		0.1	1.6	389	117	46	18	0.4	11.0	38		1.5		
14/11/2018	105		0.0		105	1.5		18	143				744		4.3	0.3			13			0.0	0.0	0.0	0.5	6.2		0.1	1.6	73	111	44	20	0.5	7.9	69		1.2		
12/02/2019																																								
15/05/2019	91	5	0.0	0.0	91	1.8	0.0	15	110	0.0	0.0	0.0	637	0.0	5.7	0.3	8	0.0	11	0.1	0.0	0.1	0.0	0.1	0.6	6.3		0.1	1.9	150	107	54	21	0.5	11.0	53	0.0	1.0		
14/08/2019	85		0.0		85	2.4		15	100				639		5.9	0.3			11			0.0	0.0	0.0	0.6	6.4		0.2	1.6	397	101	49	17	0.6	10.0	45		1.1		
12/11/2019																																								
26/02/2020	73		0.0		73	2.7		15	26				638		3.4	0.1			11			0.4	0.0	0.4	1.2	6.0	0.0	0.1	2.2	176	88	79	24	0.8	6.1	84		0.4		
13/05/2020	91	10	0.0	0.0	91	1.0	0.0	15	120	0.0	0.0	0.0	701	0.0	5.2	0.3	13	0.0	11	0.2	0.0	0.1	0.0	0.1	0.4	6.2	0.0	0.1	1.9	286	102	51	21	0.4	3.7	54	0.0	1.1		
12/08/2020	86		0.0		86	1.2		16	100				647		5.4	0.2			12			0.1	0.0	0.1	0.4	6.1	0.0	0.0	2.0	364	103	52	17	0.4	4.3	79		0.6		
10/02/2021	87		0.2		87	2.7		15	100				686		4.3	0.1			11			3.7	0.0	3.7	4.2	5.7	0.0	0.0	6.9	182	94	54	22	0.4	4.7	73		0.5		
12/05/2021	98	14	0.2	0.0	98	1.8	0.0	16	160	0.0	0.0	0.0	703	0.0	4.8	0.3	18	0.0	13	0.3	0.0	0.0	0.0	0.0	0.5	6.2	0.0	0.1	2.1	313	109	47	20	0.4	4.2	79	0.0	0.3		
11/08/2021	107		0.2		107	1.0		17	130				722		4.4	0.2			13			0.1	0.0	0.1	0.4	5.9	0.0	0.0	2.0	341	105	41	17	0.3	4.0	130		0.6		
9/11/2021	103		0.0		103	1.0		17	140				733		4.2	0.3			13			0.0	0.0	0.0	0.4	5.9	0.0	0.1	1.9	240	105	43	20	0.4	4.1	91		0.6		
9/02/2022	105		0.0		105	1.0		17	130				745		4.3	0.2			13			0.1	0.0	0.1	0.3	6.0	0.0	0.0	1.9	164	103	38	22	0.2	4.3	110		0.3		
11/05/2022	103	1	0.0	0.0	103	1.0	0.0	18	150	0.0	0.0	0.0	765	0.0	4.8	0.3	2	0.0	14	0.1	0.0	0.0	0.0	0.0	0.2	6.0	0.0	0.1	1.8	189	107	40	20	0.1	3.1	100	0.0	0.2		
10/08/2022	96		0.0		96	1.0		18	150				770		4.8	0.3			14			0.0	0.0	0.0	0.1	6.0	0.0	0.0	1.8	237	110	40	17	0.1	4.3	110		0.4		
9/11/2022	94		0.0		94	1.0		18	160				790		4.1	0.3			14			0.0	0.0	0.0	0.3	6.1	0.0	0.2	2.0	263	104	39	19	0.2	3.1	84		0.6		
2022 Min	94	1	0	0	94	1	0	17	130	0	0	0	745	0	4	0	2	0	13	0	0	0	0	0	0	6	0	0	2	164	103	38	17	0	3	84	0	0		
2022 Max	135	14	3	0	107	18	0	26	270	0	0	0	1086	0	6	0	27	0	19	1	0	4	0	4	6	7	0	0	7	409	147	79	24	6	31	189	0	2		
2022 Mean	100	1	0	0	100	1	0	18	148	0	0	0	768	0	5	0	2	0	14	0	0	0	0	0	0	6	0	0	2	213	106	39	20	0	4	101	0	0		
Long-term Average	90	6	0	0	78	2	0	19	147	0	0	0	778	0	4	0	14	0	14	0	0	0	0	1	6	0	0	4	208	105	43	20	1	6	94	0	1			

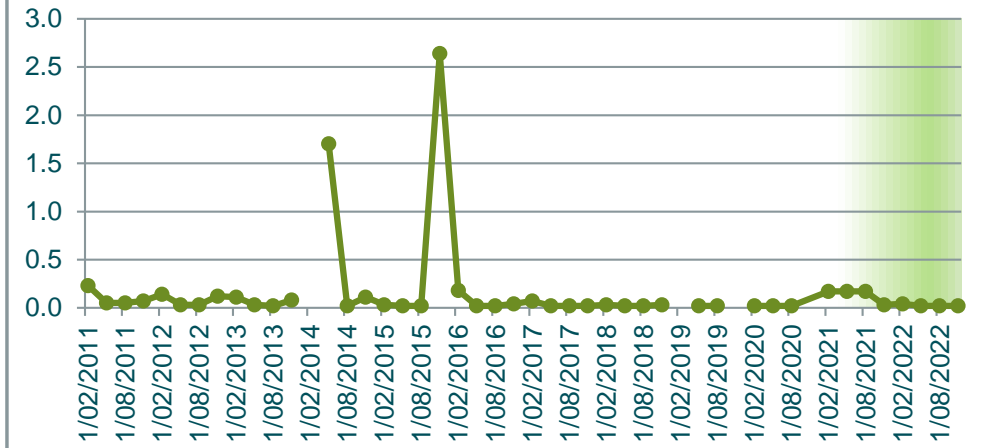
**Alkalinity
mg/L as CaCO3**



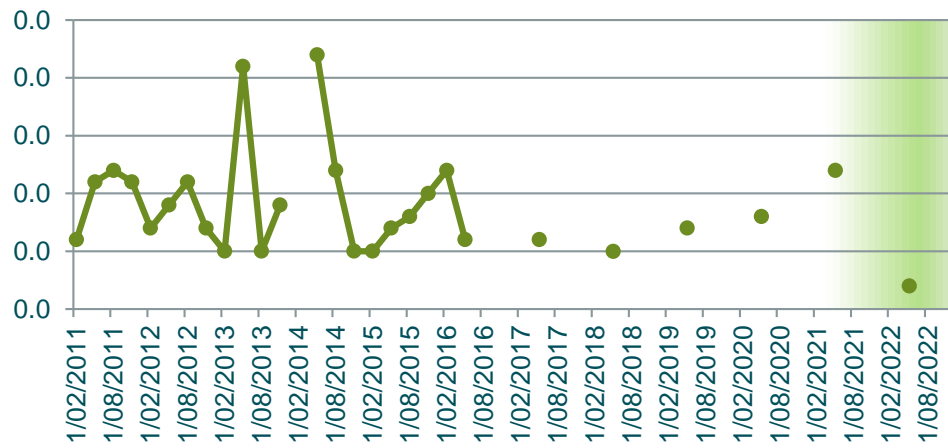
**Aluminium (Total)
mg/L**



**Ammonia
mg/L**



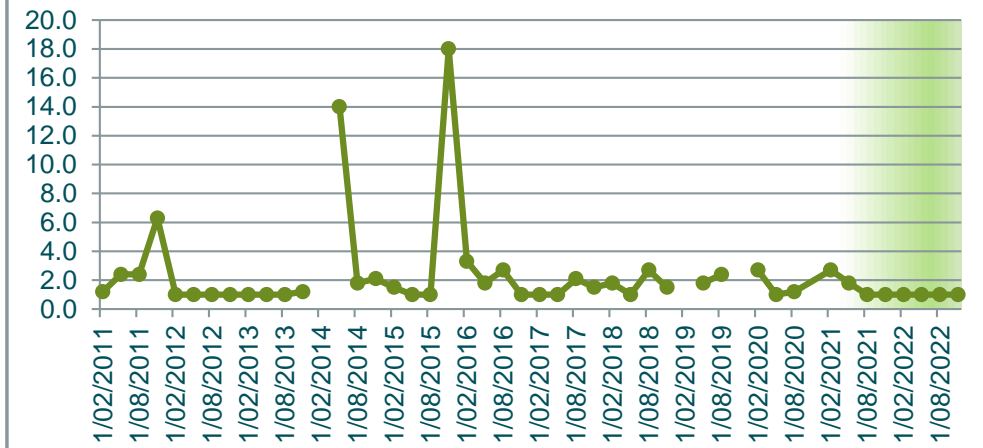
**Arsenic (Total)
mg/L**



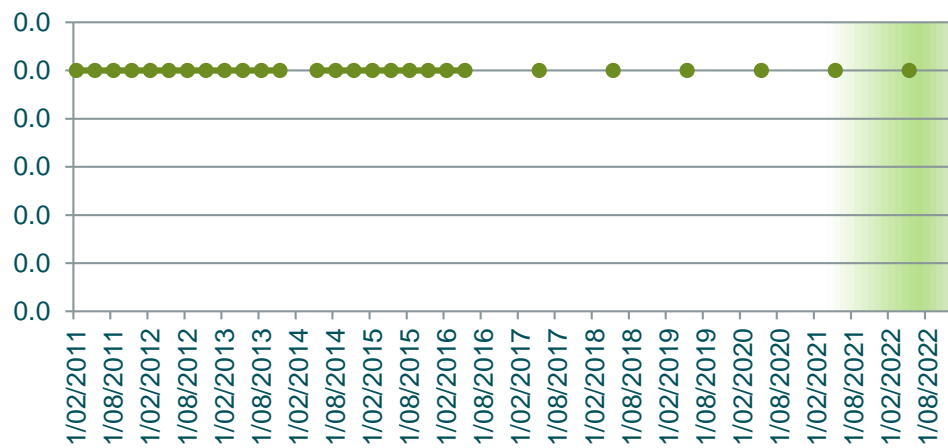
**Bicarbonate HCO3
mg/L**



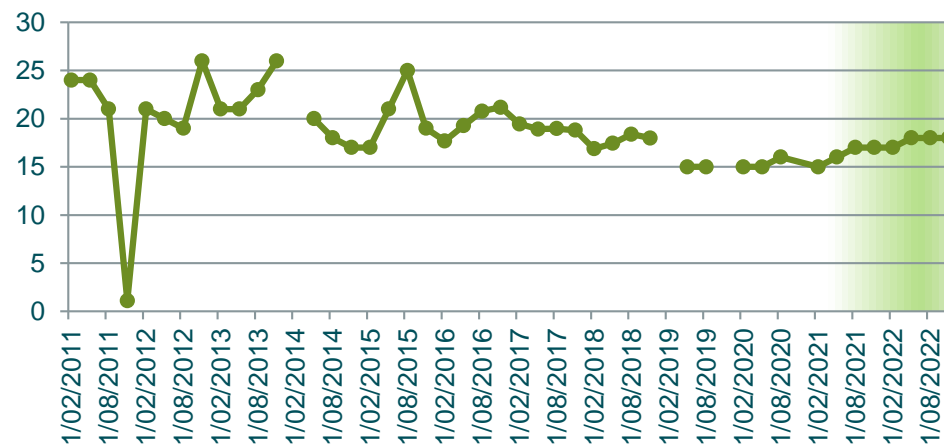
**BOD5
mg/L**



**Cadmium (Total)
mg/L**



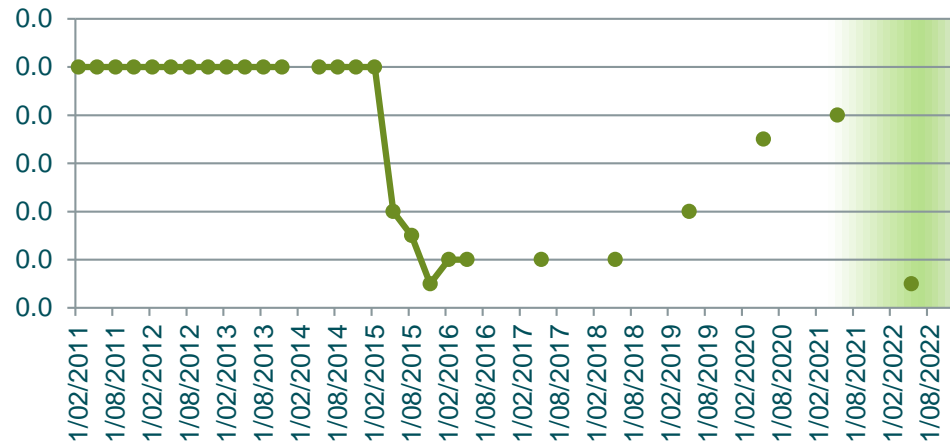
**Calcium (Total)
mg/L**



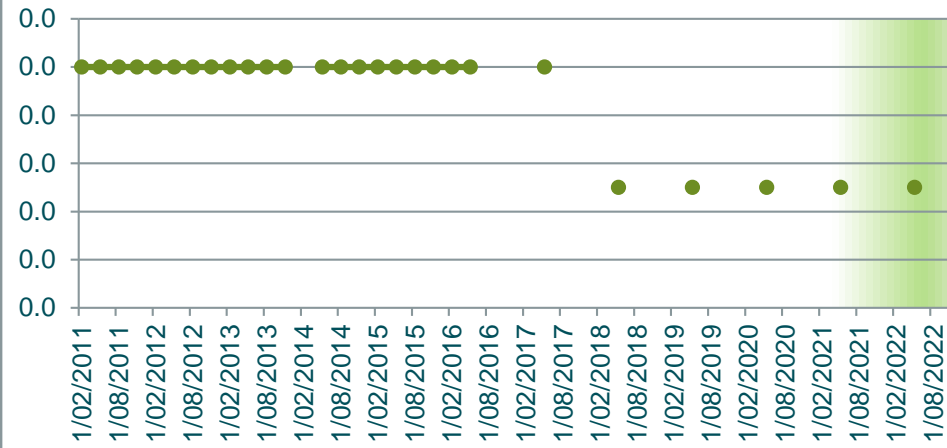
**Chloride
mg/L**



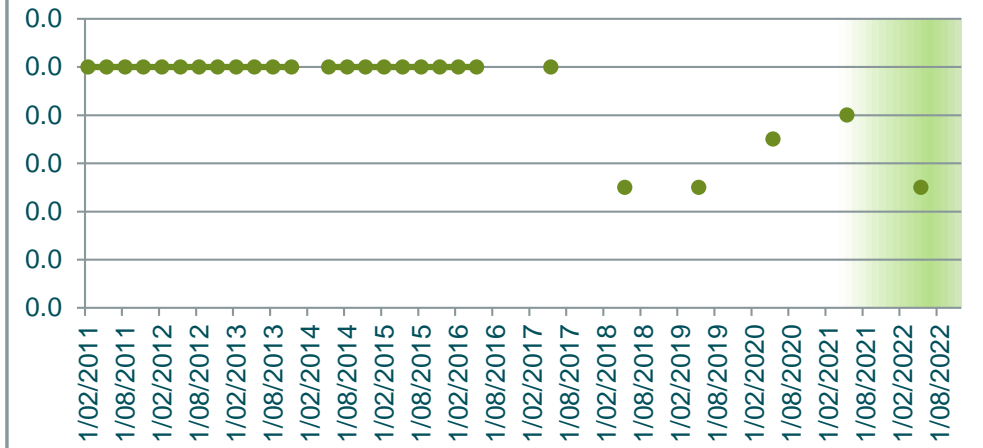
Chromium (Total) mg/L



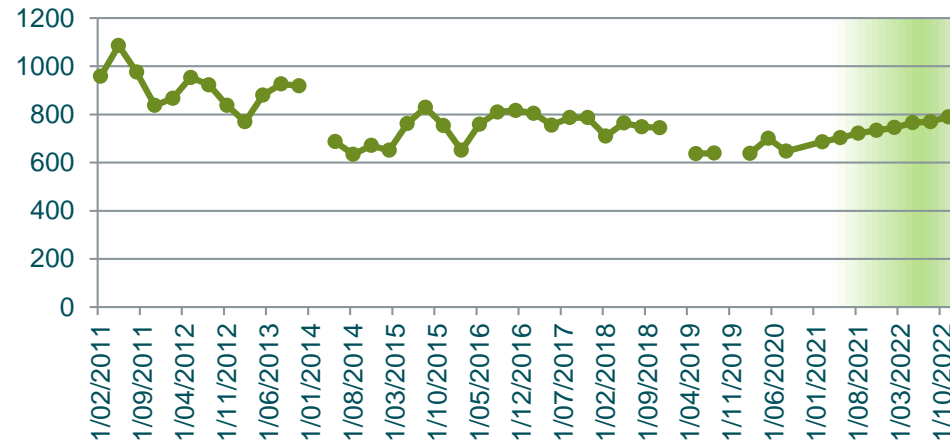
Chromium 3 mg/L



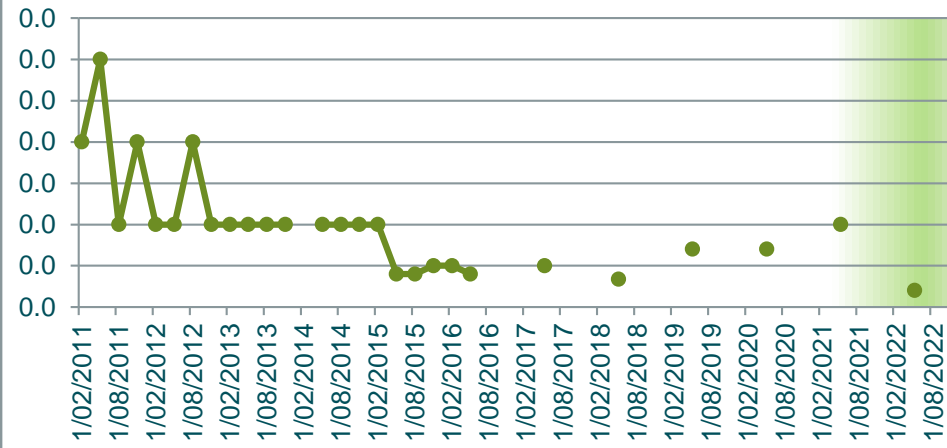
Chromium 6 mg/L



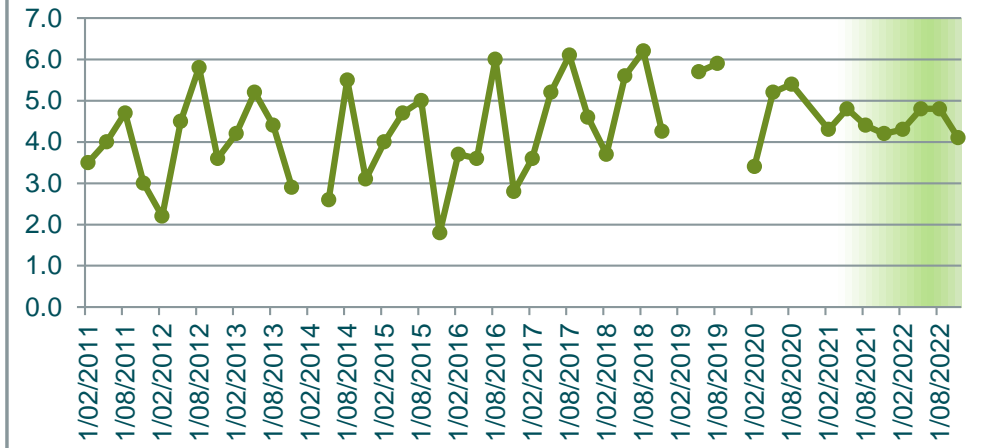
Conductivity µScm-1



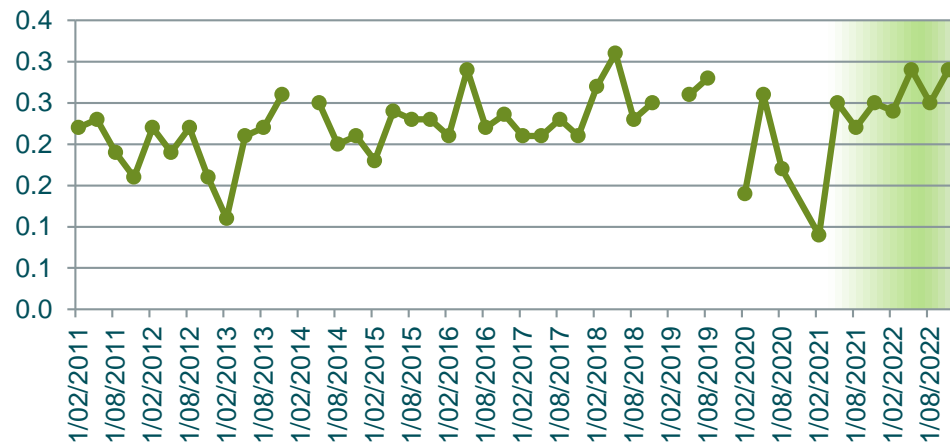
Copper (Total) mg/L



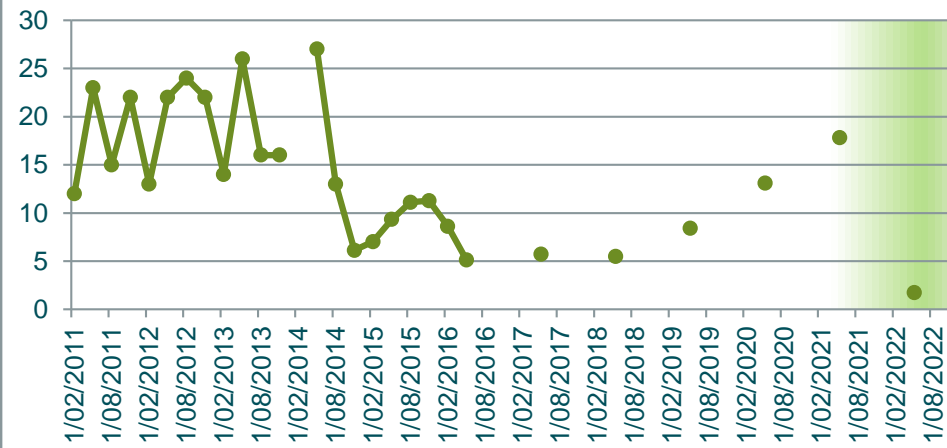
DO (Membrane Electrode) mg/L



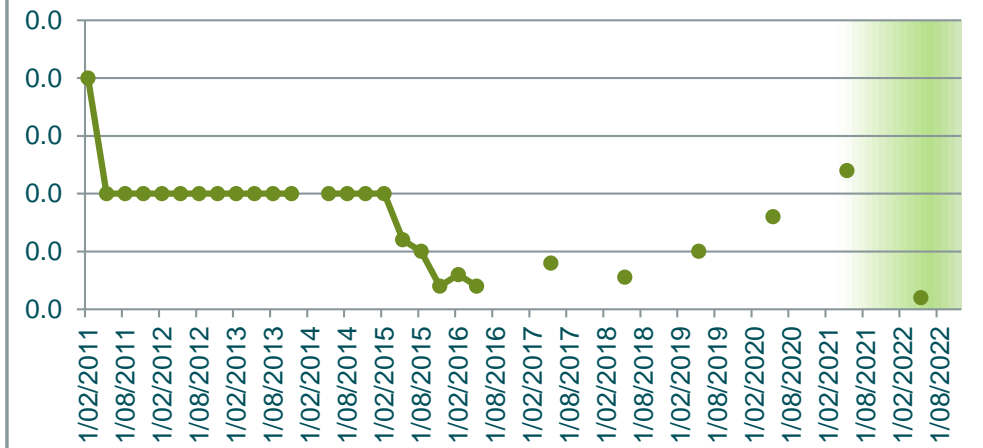
Flouride mg/L



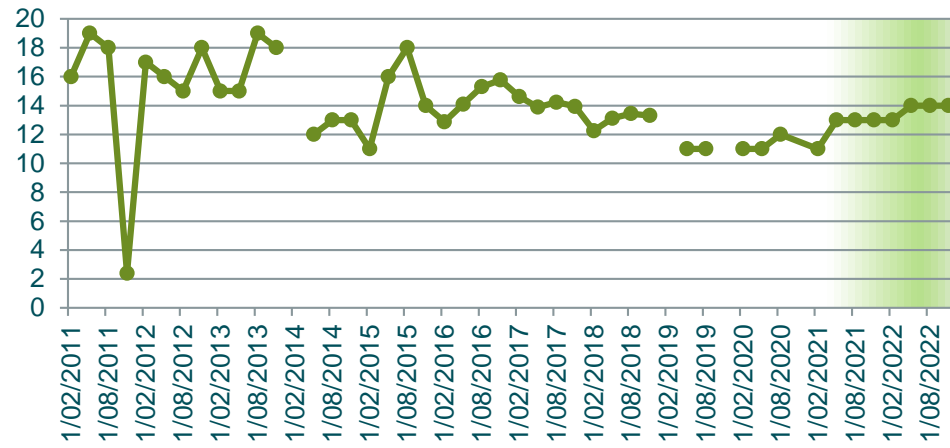
Iron Total mg/L



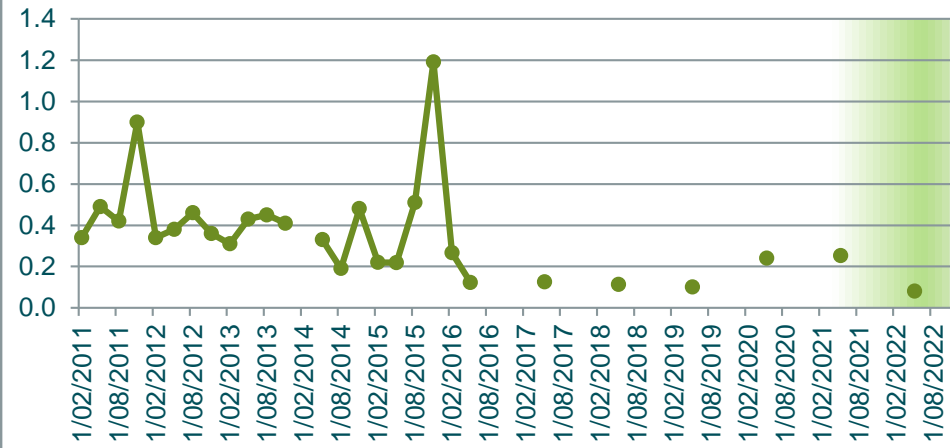
Lead (Total) mg/L



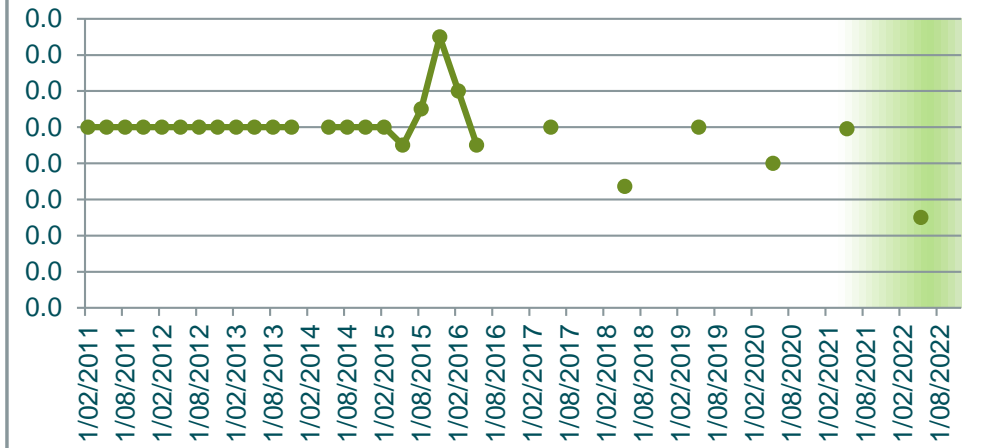
Magnesium (Total) mg/L



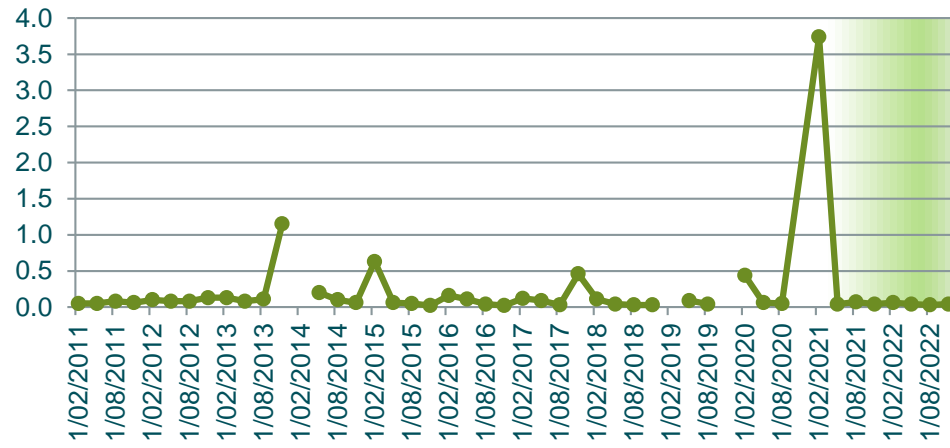
Manganese Total mg/L



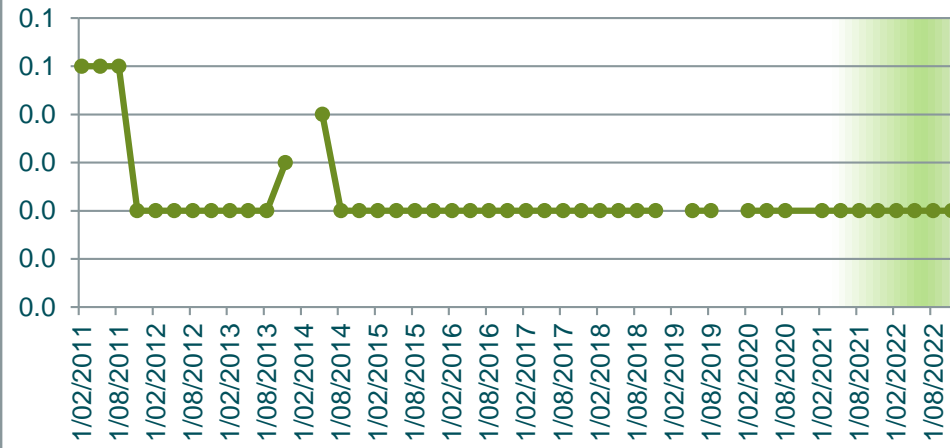
Nickel (Total) mg/L



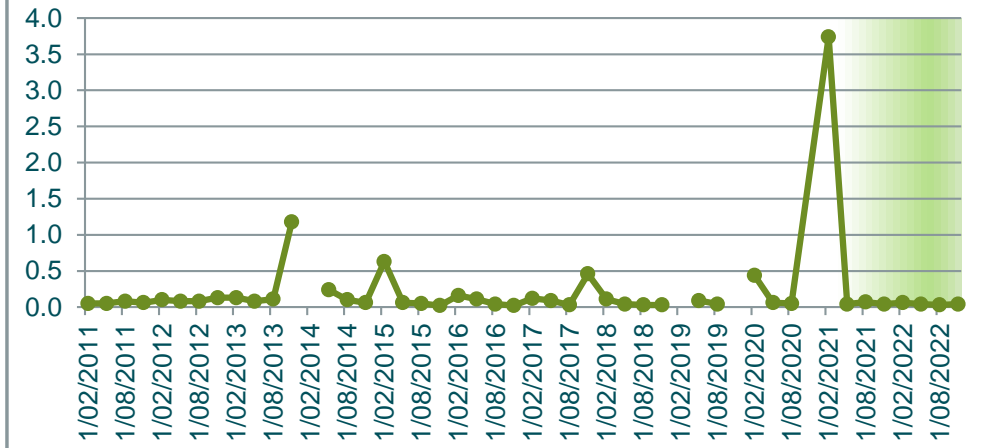
Nitrate N mg/L



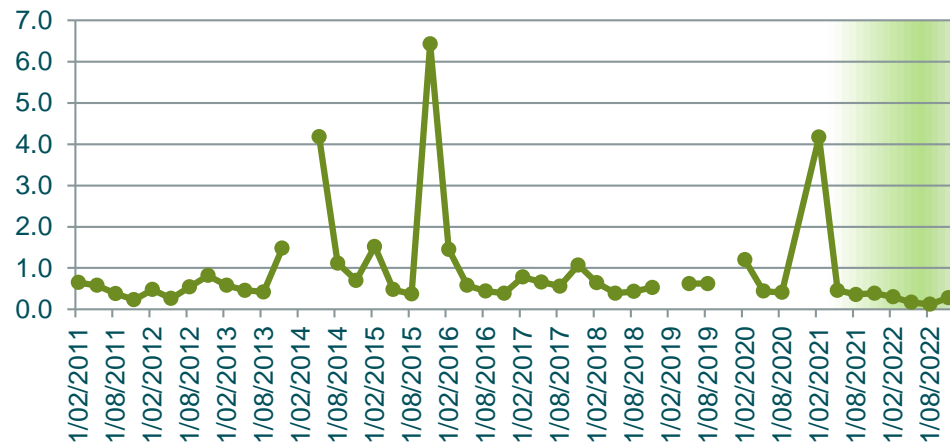
Nitrite N mg/L



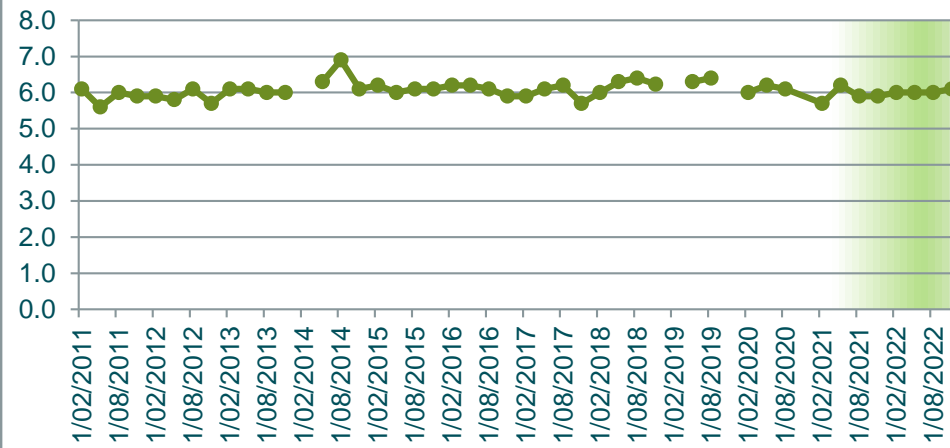
Nitrogen Oxidised mg/L



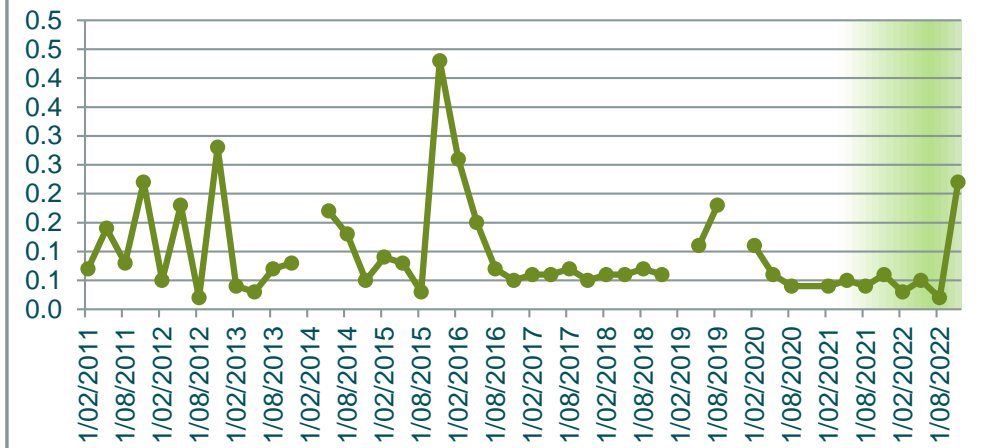
Nitrogen Total mg/L



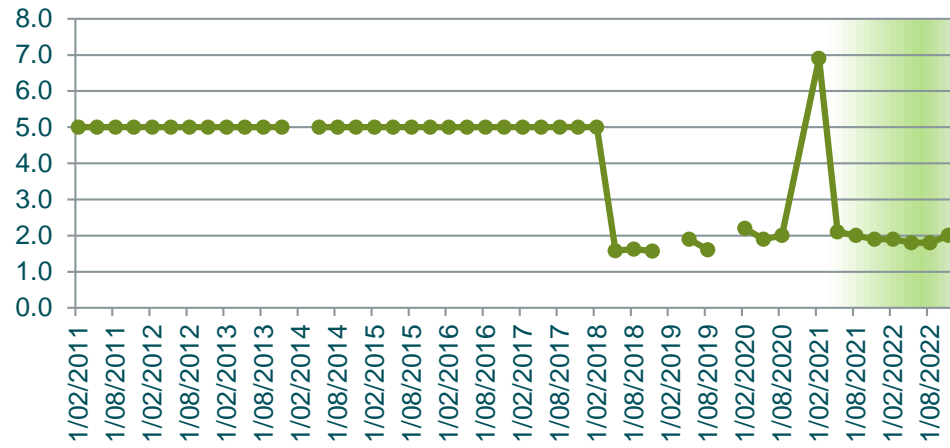
pH pH units



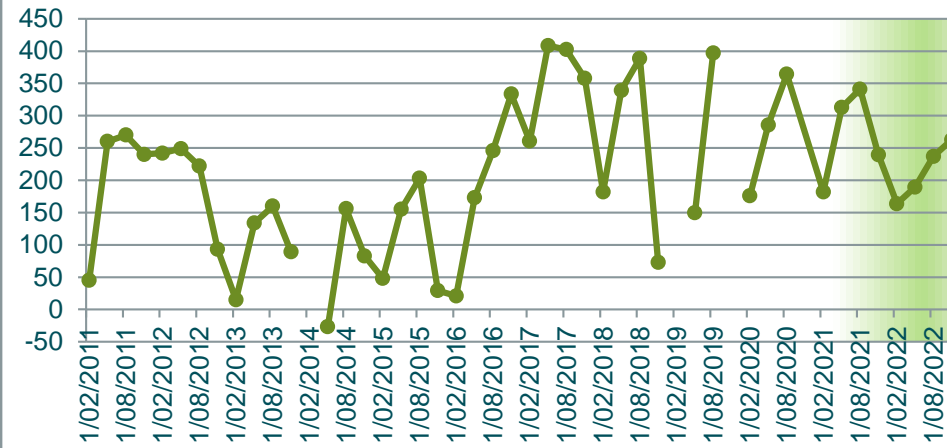
Phosphorus Total mg/L



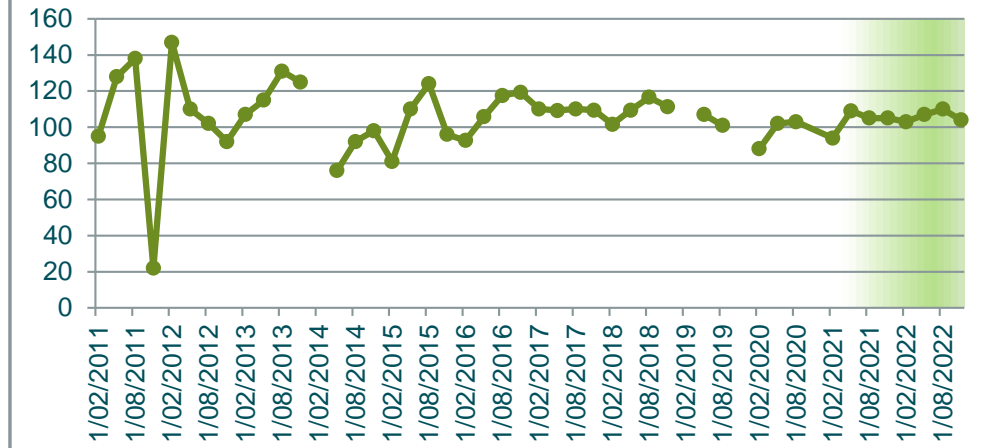
**Potassium Total
mg/L**



**Redox Potential
mV**



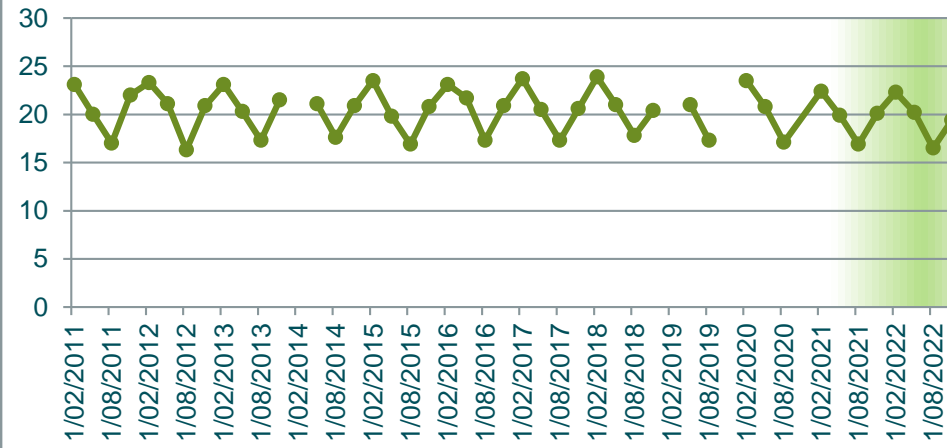
**Sodium (Total)
mg/L**



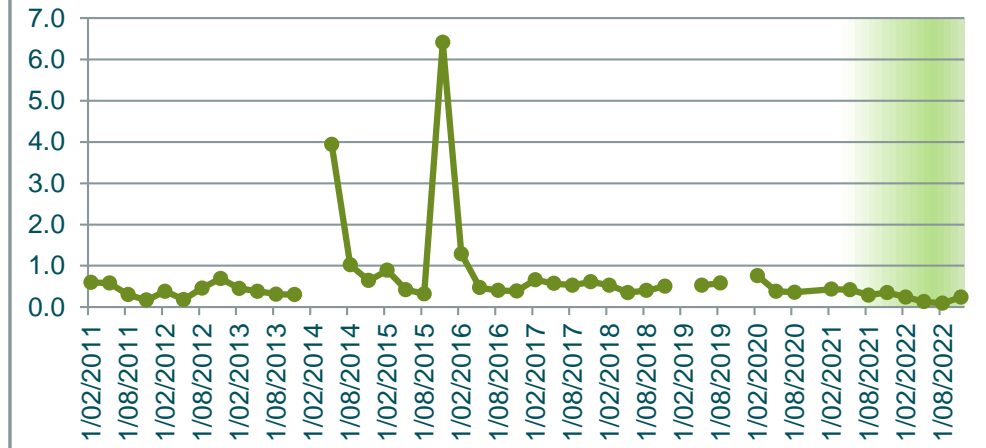
**Sulphate
mg/L**



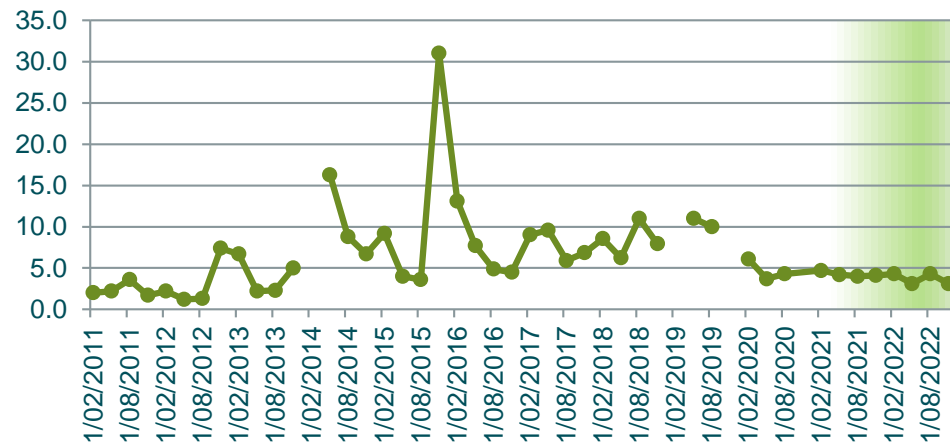
**Temperature
C**



**TKN
mg/L**



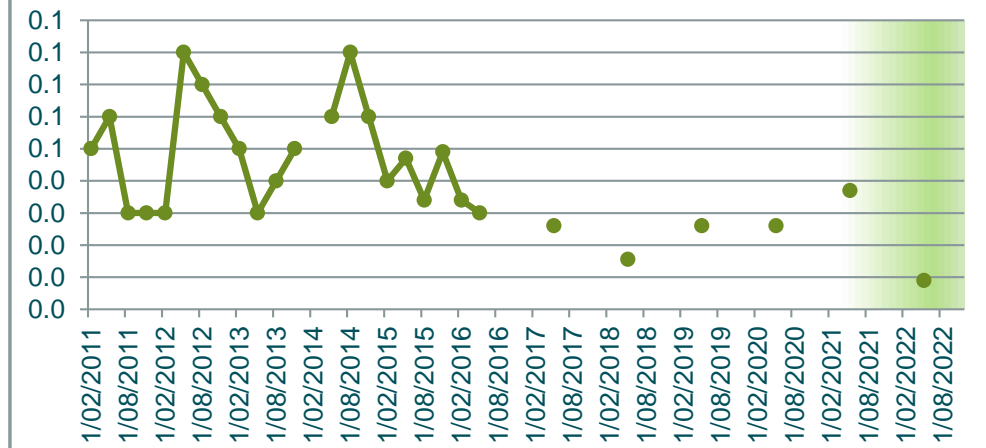
**TOC
mg/L**



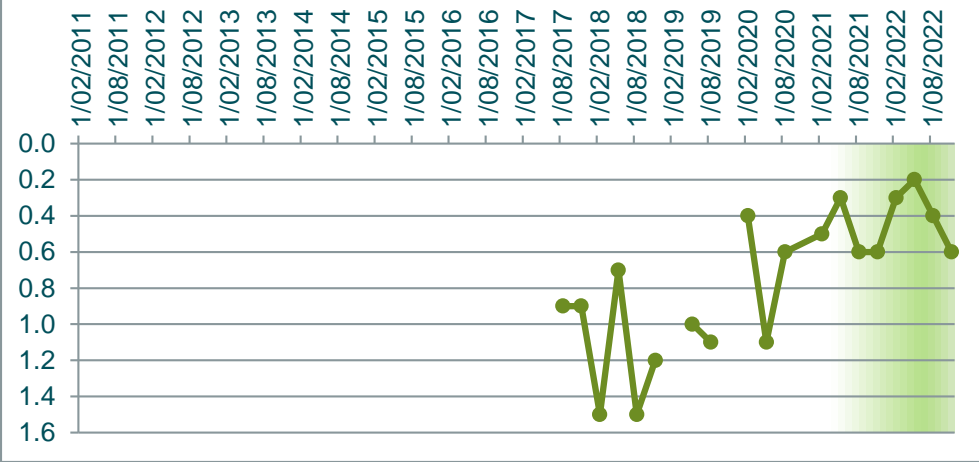
**Total Acidity
mg/L CaCO3**



**Zinc (Total)
mg/L**



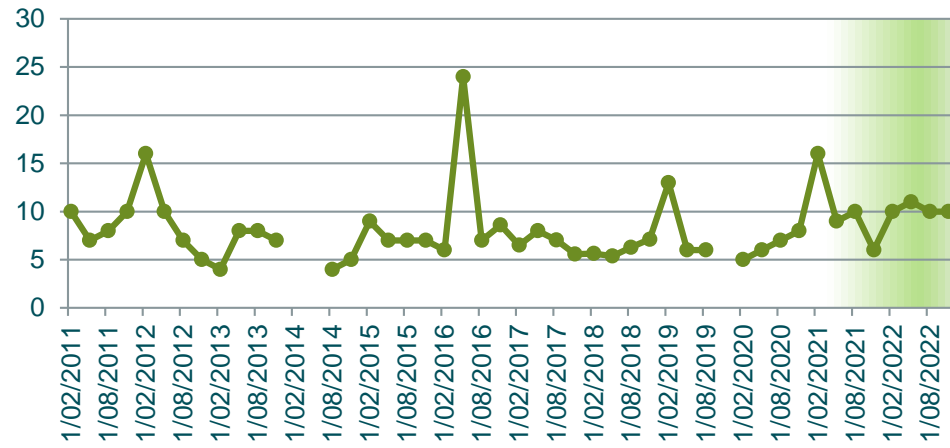
Depth to groundwater m



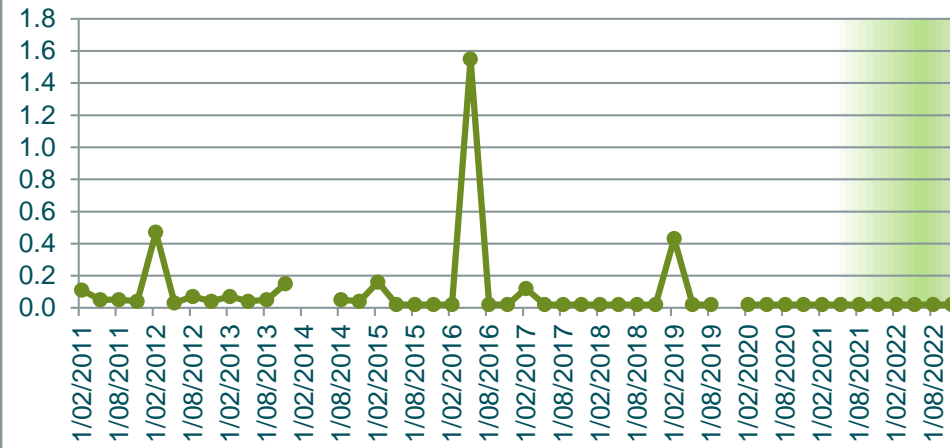
GW16	Alkalinity mg/L as CaCO ₃	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO ₃ mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Phenol Alkalinity mg/L as CaCO ₃	pH PH units	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO ₃	Zinc (Total) mg/L	Depth to Groundwater m	
1/02/2011	10	11	0.1	0.0	6.0	1.0	0.0	0.5	27	0.0	0.0	0.0	165	0.0	2.3	0.0	7	0.0	0.6	0.1	0.0	0.1	0.1	0.1	0.5	5.6		0.1	5.0	109	20	22	23	0.5	4.9	31	0.0				
11/05/2011	7	6	0.1	0.0	4.0	1.0	0.0	0.1	31	0.0	0.0	0.0	212	0.0	3.4	0.0	3	0.0	1.2	0.0	0.0	0.4	0.1	0.4	0.8	4.6		0.1	5.0	282	27	22	22	0.3	1.6	54	0.0				
10/08/2011	8	10	0.1	0.0	5.0	1.0	0.0	0.2	23	0.0	0.0	0.0	205	0.0	3.4	0.1	6	0.0	1.1	0.1	0.0	0.2	0.1	0.2	0.4	5.2		0.1	5.0	317	32	24	19	0.2	1.7	54	0.0				
9/11/2011	10	9	0.0	0.0	6.0	1.0	0.0	119.0	36	0.0	0.0	0.0	196	0.0	2.3	0.1	6	0.0	21.0	0.1	0.0	0.1	0.0	0.1	0.3	5.3		0.1	15.0	310	100	101	21	0.2	1.2	62	0.0				
7/02/2012	16	34	0.5	0.0	10.0	3.9	0.0	0.5	30	0.0	0.0	0.0	185	0.0	1.7	0.0	27	0.0	1.6	0.2	0.0	0.2	0.0	0.2	1.3	5.3		0.2	5.0	119	37	29	23	1.2	2.6	84	0.0				
9/05/2012	10	4	0.0	0.0	6.0	1.0	0.0	0.5	26	0.0	0.0	0.0	191	0.0	4.8	0.1	2	0.0	1.4	0.0	0.0	0.0	0.0	0.1	0.2	5.4		0.1	5.0	277	25	25	22	0.2	0.9	50	0.0				
7/08/2012	7	20	0.1	0.0	4.0	1.0	0.0	0.5	24	0.0	0.0	0.0	192	0.0	4.3	0.0	15	0.0	1.3	0.1	0.0	0.1	0.0	0.1	0.5	5.1		0.1	5.0	197	22	26	19	0.4	0.9	42	0.1				
14/11/2012	5	41	0.0	0.0	3.0	1.0	0.0	0.4	29	0.0	0.0	0.0	200	0.0	5.8	0.1	26	0.0	1.1	0.2	0.0	0.3	0.0	0.3	1.0	5.1		0.2	5.0	193	29	22	22	0.7	2.7	48	0.1				
14/02/2013	4	19	0.1	0.0	2.0	1.0	0.0	0.7	26	0.0	0.0	0.0	183	0.0	3.3	0.1	11	0.0	2.0	0.1	0.0	3.2	0.0	3.2	3.2	5.0		0.1	5.0	211	27	16	25	0.1	1.2	46	0.0				
15/05/2013	8	12	0.0	0.0	5.0	1.2	0.0	0.7	25	0.0	0.0	0.0	162	0.0	3.9	0.0	7	0.0	1.3	0.1	0.0	1.8	0.0	1.8	2.0	5.3		0.0	5.0	159	24	20	22	0.2	1.0	62	0.0				
7/08/2013	8	17	0.1	0.0	5.0	1.0	0.0	0.4	24	0.0	0.0	0.0	144	0.0	5.0	0.0	10	0.0	1.1	0.1	0.0	0.4	0.0	0.4	0.8	5.5		0.2	5.0	162	26	23	19	0.4	1.0	65	0.0				
13/11/2013	7	42	0.2	0.0	4.0	1.0	0.0	0.3	28	0.0	0.0	0.0	198	0.0	2.8	0.0	28	0.0	1.1	0.3	0.0	0.7	0.0	0.7	1.7	5.2		0.1	5.0	147	37	30	21	1.1	1.1	68	0.1				
11/02/2014																																									
13/05/2014																																									
13/08/2014	4	20	0.1	0.0	2.0	3.0	0.0	0.2	29	0.0	0.0	0.0	191	0.0	5.4	0.0	9	0.0	1.4	0.1	0.0	4.7	0.0	4.7	5.5	6.8		0.2	5.0	158	35	19	19	0.8	1.0	56	0.1				
11/11/2014	5	8	0.0	0.0	3.0	1.8	0.0	0.3	31	0.0	0.0	0.0	187	0.0	3.8	0.0	4	0.0	1.4	0.1	0.0	3.0	0.0	3.0	3.4	6.0		0.2	5.0	147	33	21	21	0.4	0.8	51	0.0				
10/02/2015	9	9	0.2	0.0	5.0	3.6	0.0	0.9	28	0.0	0.0	0.0	168	0.0	2.8	0.2	3	0.0	1.8	0.1	0.0	4.2	0.0	4.2	5.0	5.9		0.2	5.0	107	25	14	24	0.8	1.3	44	0.0				
12/05/2015	7	22	0.0	0.0	4.0	3.9	0.0	0.7	34	0.0	0.0	0.0	179	0.0	4.5	0.0	10	0.0	1.6	0.1	0.0	1.3	0.0	1.3	2.3	5.2		0.2	5.0	159	32	16	22	1.1	0.9	47	0.0				
12/08/2015	7	16	0.0	0.0	7.0	3.0	0.0	0.3	34	0.0	0.0	0.0	189	0.0	4.7	0.0	9	0.0	1.5	0.1	0.0	0.5	0.0	0.5	1.4	5.4		0.1	5.0	210	34	18	19	0.8	1.1	47	0.0				
11/11/2015	7	6	0.0	0.0	7.0	2.4	0.0	0.7	20	0.0	0.0	0.0	156	0.0	5.4	0.0	3	0.0	2.1	0.1	0.0	5.1	0.0	5.1	5.2	5.2		0.1	5.0	147	24	12	21	0.1	0.9	37	0.0				
9/02/2016	6	31	0.0	0.0	6.0	2.1	0.0	0.4	27	0.0	0.0	0.0	176	0.0	4.1	0.0	16	0.0	1.6	0.1	0.0	3.4	0.0	3.4	4.4	5.3		0.2	5.0	195	31	15	23	1.0	1.7	81	0.1				
10/05/2016	24	6	1.6	0.0	24.0	10.5	0.0	0.7	28	0.0	0.0	0.0	193	0.0	1.5	0.0	3	0.0	1.8	0.1	0.0	0.2	0.0	0.2	4.1	5.7		0.6	5.0	109	31	37	23	3.9	4.6	77	0.0				
10/08/2016	7		0.0		7.0	4.2		0.5	24				179		4.2	0.0			1.7			3.8	0.0	3.8	4.3	5.2		0.2	5.0	233	30	18	19	0.5	0.8	54					
8/11/2016	9		0.0		9.0	1.0		0.3	33				189		2.1	0.0			1.5			0.5	0.0	0.5	0.8	5.1		0.1	5.0	411	35	24	21	0.3	0.9	93					
8/02/2017	7		0.1		6.0	1.2		0.2	33				202		3.8	0.0			1.0			1.9	0.0	1.9	3.1	5.0		0.3	5.0	297	33	21	23	1.1	1.3	96					
9/05/2017	8	12	0.0	0.0	8.0	1.8	0.0	0.4	24	0.0	0.0	0.0	136	0.0	4.0	0.0	6	0.0	1.2	0.1	0.0	1.7	0.0	1.7	2.3	5.3		0.1	5.0	402	23	15	22	0.6	1.7	40	0.0				
9/08/2017	7		0.0		7.0	1.5		0.3	45				159		4.9	0.0			1.0			0.7	0.0	0.7	1.4	5.3		0.2	5.0	392	27	16	19	0.7	1.2	37		1.7			
8/11/2017	6		0.0		6.0	1.0		0.5	24				142		4.2	0.0			1.5			2.3	0.0	2.3	2.7	4.6		0.1	5.0	436	23	12	21	0.4	1.0	33		1.3			
14/02/2018	6		0.0		6.0	1.0		0.2	28				166		3.9	0.0			1.2			1.6	0.0	1.6	1.7	5.1		0.1	5.0	371	29	18	24	0.1	1.0	38		2.2			
9/05/2018	5	11	0.0	0.0	5.0	1.0	0.0	0.8	28	0.0	0.0	0.0	183	0.0	4.6	0.0	4	0.0	1.9	0.1	0.0	5.2	0.0	5.2	5.5	5.2		0.1	0.5	385	30	16	22	0.3	0.9	40	0.0	1.2			

15/08/2018	6		0.0		6.0	1.5		0.3	29				178		4.3	0.0			1.5			1.8	0.0	1.8	2.2	5.2		0.1	0.5	438	32	21	19	0.4	5.3	39		2.1		
14/11/2018	7		0.0		7.0	1.5		0.4	27				173		3.5	0.0			1.7			1.8	0.0	1.8	2.4	5.3		0.2	0.5	155	30	21	20	0.7	2.0	106		1.9		
13/02/2019	13		0.4		13.0	3.9		0.3	32				198		3.5	0.0			1.2			0.8	0.0	0.8	3.2	5.5	0.0	0.4	0.5	183	35	26	23	2.4	1.7	62		3.4		
15/05/2019	6	20	0.0	0.0	6.0	1.0	0.0	0.4	22	0.0	0.0	0.0	143	0.0	5.7	0.0	7	0.0	1.4	0.1	0.0	1.8	0.0	1.8	2.3	5.3	0.0	0.1	0.5	227	27	19	21	0.5	1.3	32	0.0	1.6		
14/08/2019	6		0.0		6.0	1.2		0.3	24				152		4.9	0.0			1.3			0.5	0.0	0.5	1.2	5.3	0.0	0.2	0.5	410	29	23	18	0.7	1.8	37		1.8		
13/11/2019																																								
26/02/2020	5		0.0		5.0	1.0		0.6	18				113		4.4	0.0			1.0			1.3	0.0	1.3	1.9	5.3	0.0	0.2	0.5	254	17	12	24	0.6	1.4	28		1.0		
13/05/2020	6	21	0.0	0.0	6.0	1.0	0.0	0.3	28	0.0	0.0	0.0	132	0.0	4.6	0.1	10	0.0	0.9	0.1	0.0	0.6	0.0	0.6	1.1	5.3	0.0	0.1	0.5	305	22	19	21	0.5	1.1	31	0.0	1.8		
12/08/2020	7		0.0		7.0	1.0		0.3	22				137		4.7	0.0			1.0			0.3	0.0	0.3	0.8	5.2	0.0	0.1	0.5	231	26	18	18	0.5	1.2	44		1.2		
11/11/2020	8		0.0		8.0	1.0		0.2	23				134		3.6	0.1			0.9			0.3	0.0	0.3	0.9	5.2	0.0	0.1	0.5	229	24	16	20	0.6	1.3	35		1.8		
10/02/2021	16		0.0		16.0	1.0		0.2	18				139		3.6	0.0			0.8			0.2	0.0	0.2	0.9	5.3	0.0	0.1	5.6	191	21	16	22	0.7	1.6	36		1.6		
12/05/2021	9	10	0.0	0.0	9.0	1.0	0.0	0.4	10	0.0	0.0	0.0	124	0.0	4.0	0.1	4	0.0	1.1	0.1	0.0	0.1	0.0	0.1	0.4	5.4	0.0	0.1	0.5	246	22	16	21	0.3	1.5	37	0.0	1.1		
11/08/2021	10		0.0		10.0	1.2		0.4	20				140		4.9	0.0			1.1			0.9	0.0	0.9	1.5	5.2	0.0	0.1	0.5	340	24	17	18	0.6	1.7	43		1.6		
9/11/2021	6		0.0		6.0	1.0		0.7	22				141		3.7	0.0			1.8			4.7	0.0	4.7	4.8	5.1	0.0	0.1	0.5	346	22	11	20	0.1	1.0	27		1.4		
9/02/2022	10		0.0		10.0	1.2		0.5	17				121		3.6	0.0			1.0			0.7	0.0	0.7	1.0	5.1	0.0	0.1	0.5	321	19	13	23	0.3	1.4	59		1.3		
11/05/2022	11	5	0.0	0.0	11.0	1.0	0.0	0.6	17	0.0	0.0	0.0	113	0.0	5.1	0.0	1	0.0	1.2	0.1	0.0	0.0	0.0	0.0	0.2	5.5	0.0	0.0	0.5	232	19	14	21	0.2	1.5	49	0.0	0.9		
10/08/2022	10		0.0		10.0	1.0		0.3	22				142		4.7	0.0			0.9			0.2	0.0	0.2	0.4	5.4	0.0	0.1	0.5	300	25	17	18	0.3	1.7	44		1.7		
9/11/2022	10		0.0		10.0	1.2		0.4	22				139		3.7	0.0			1.1			0.1	0.0	0.1	0.7	5.4	0.0	0.2	0.5	252	22	15	19	0.6	1.8	56		1.6		
2022 Min	10	5	0.0	0.0	10.0	1.0	0.0	0.3	17	0.0	0.0	0.0	113	0.0	3.6	0.0	1	0.0	0.9	0.1	0.0	0.0	0.0	0.2	5.1	0.0	0.0	0.5	232	19	13	18	0.2	1.4	44	0.0	0.9			
2022 Max	11	5	0.0	0.0	11.0	1.2	0.0	0.6	22	0.0	0.0	0.0	142	0.0	5.1	0.0	1	0.0	1.2	0.1	0.0	0.7	0.0	0.7	1.0	5.5	0.0	0.2	0.5	321	25	17	23	0.6	1.8	59	0.0	1.7		
2022 Mean	10	5	0.0	0.0	10.3	1.1	0.0	0.5	20	0.0	0.0	0.0	129	0.0	4.3	0.0	1	0.0	1.1	0.1	0.0	0.2	0.0	0.3	0.6	5.4	0.0	0.1	0.5	276	21	15	20	0.3	1.6	52	0.0	1.4		
Long-term Average	8	16	0.1	0.0	7.1	1.8	0.0	3.1	26	0.0	0.0	0.0	165	0.0	4.0	0.0	9	0.0	1.8	0.1	0.0	1.4	0.0	1.4	2.0	5.3	0.0	0.1	3.5	251	29	21	21	0.6	1.6	51	0.0	1.6		

**Alkalinity
mg/L as CaCO3**



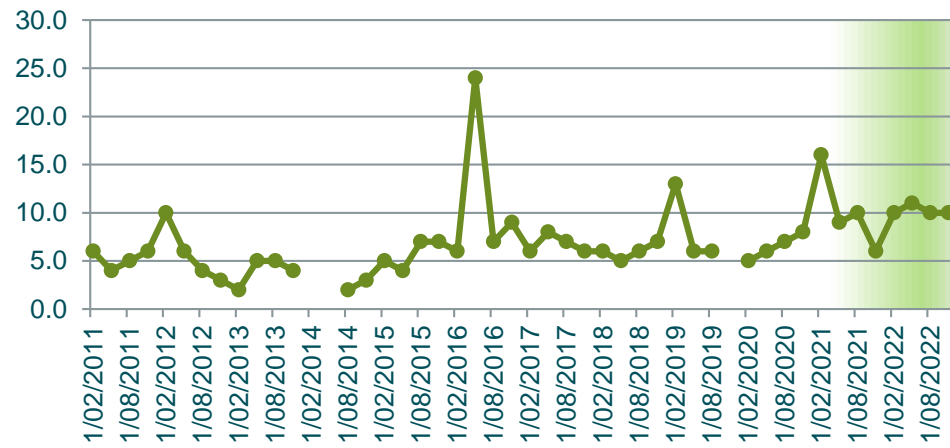
**Ammonia
mg/L**



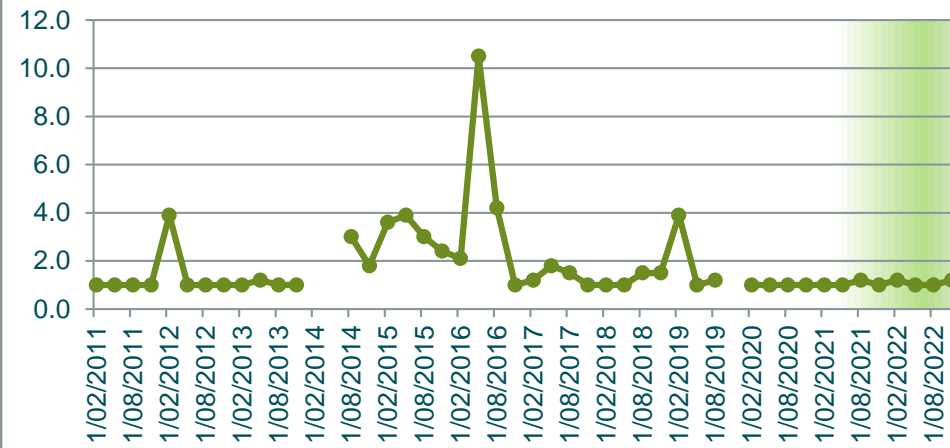
**Arsenic (Total)
mg/L**



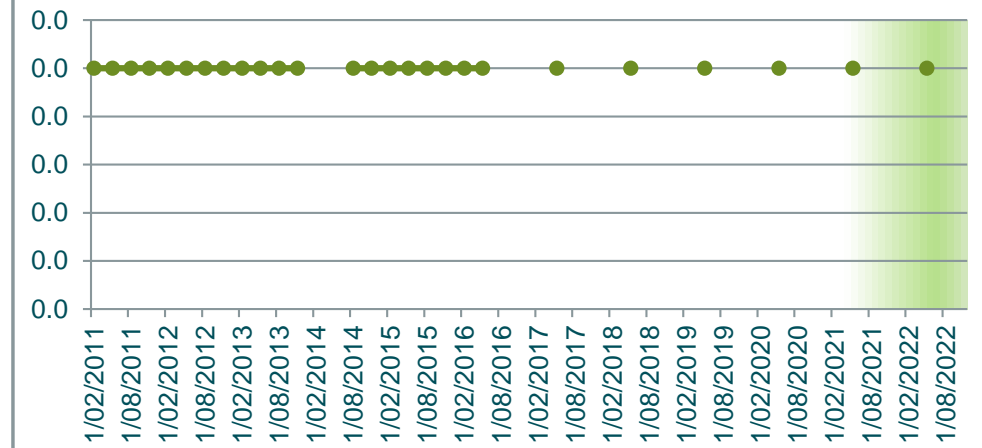
**Bicarbonate HCO3
mg/L**



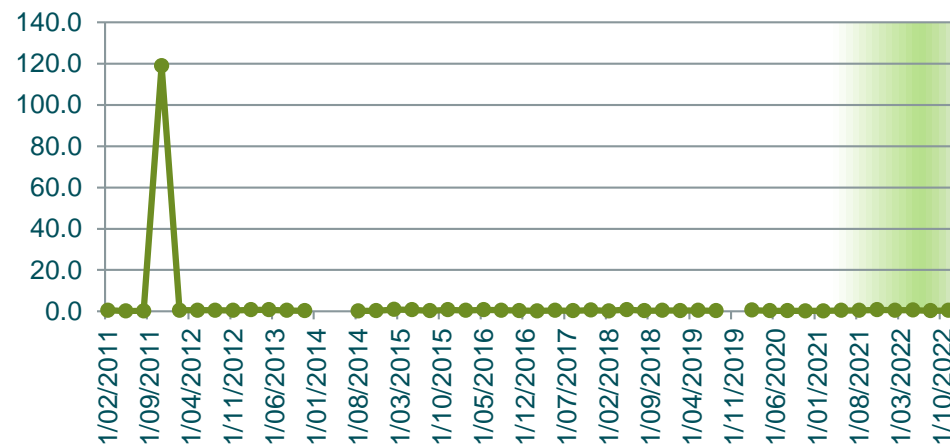
**BOD5
mg/L**



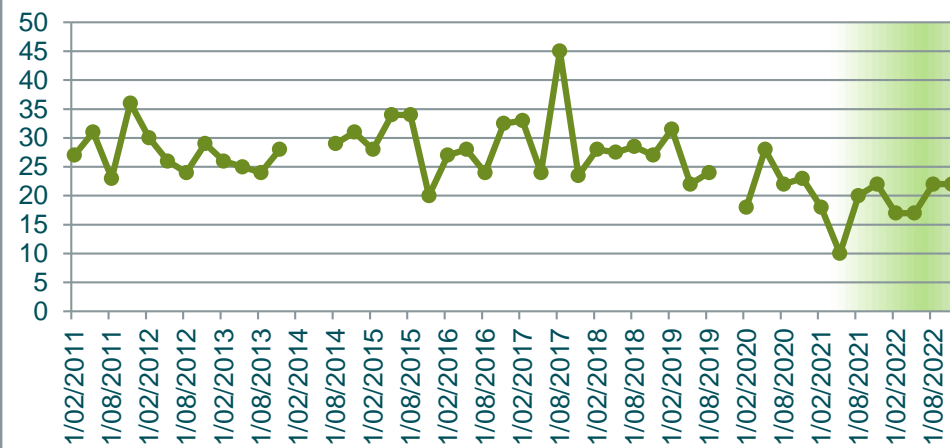
**Cadmium (Total)
mg/L**



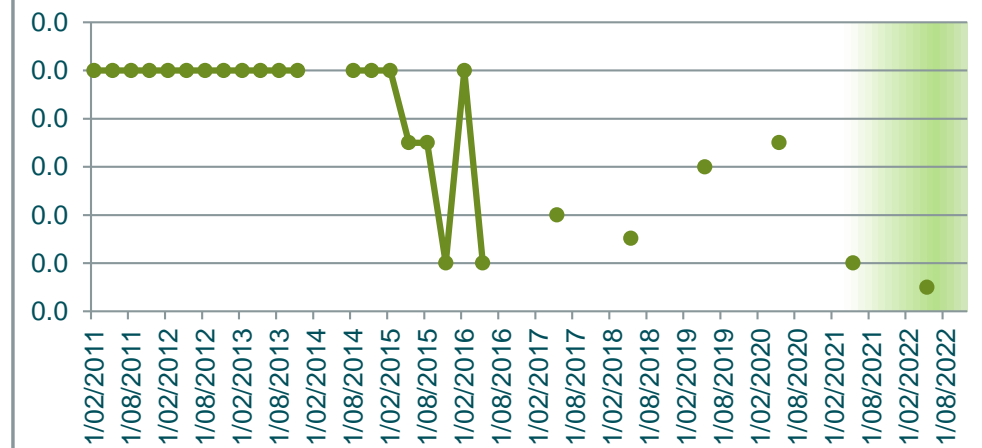
**Calcium (Total)
mg/L**



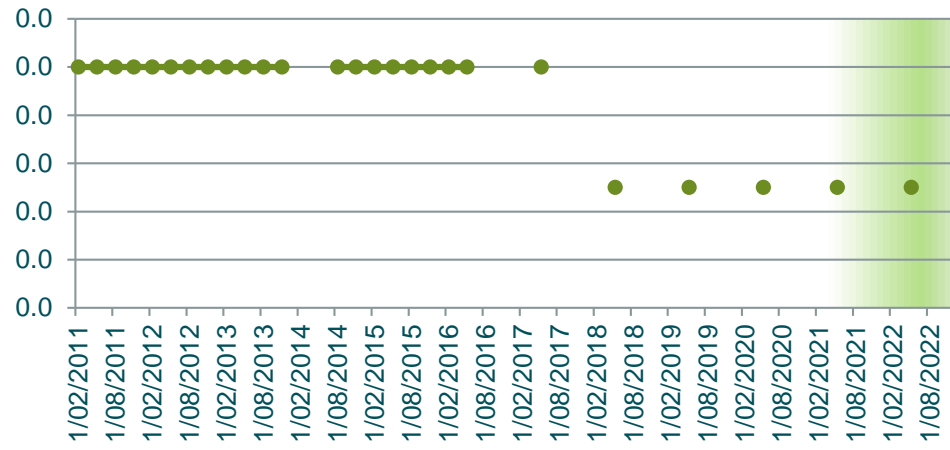
**Chloride
mg/L**



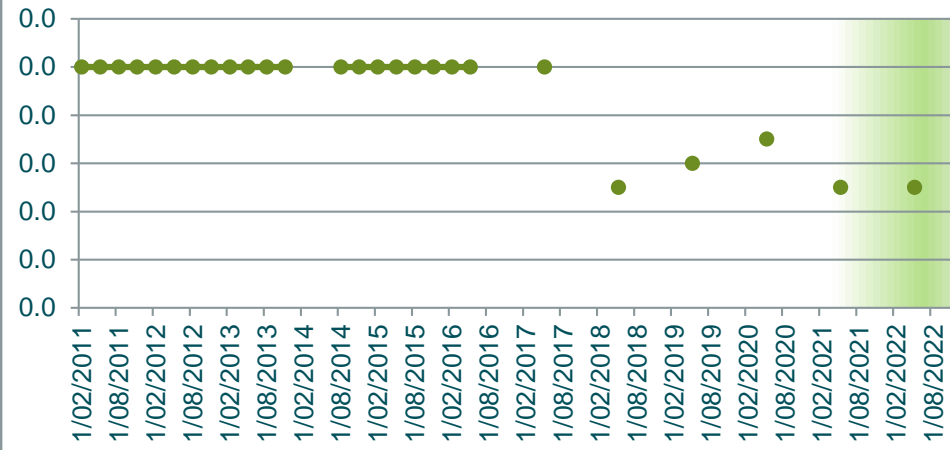
**Chromium (Total)
mg/L**



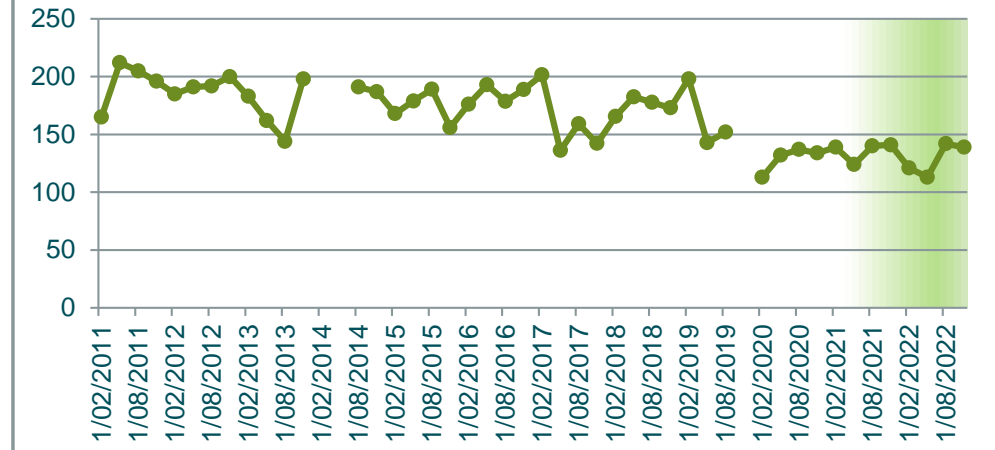
**Chromium 3
mg/L**



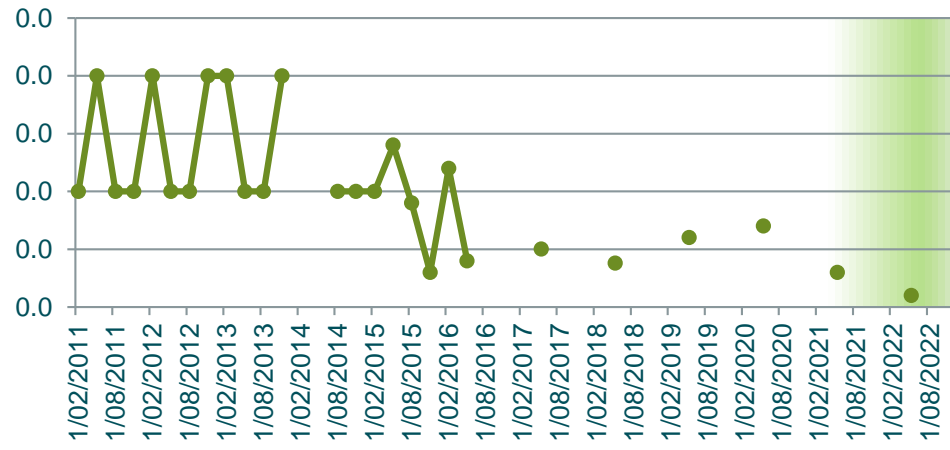
**Chromium 6
mg/L**



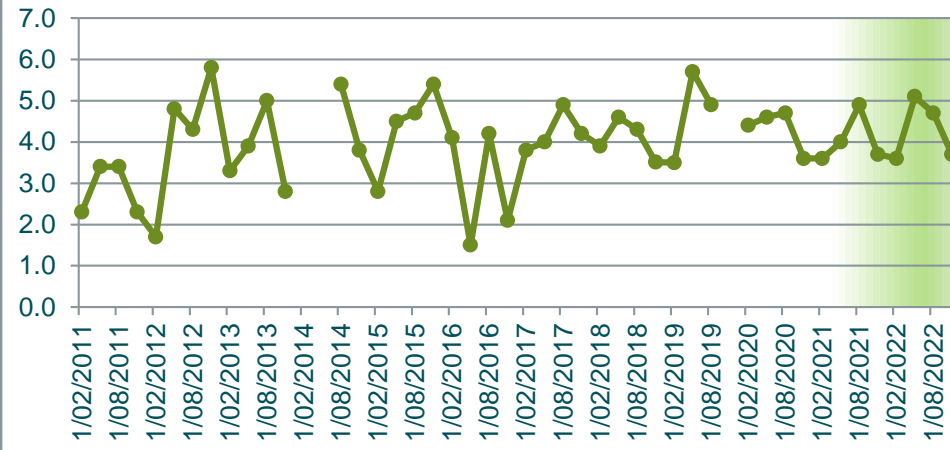
**Conductivity
µScm-1**



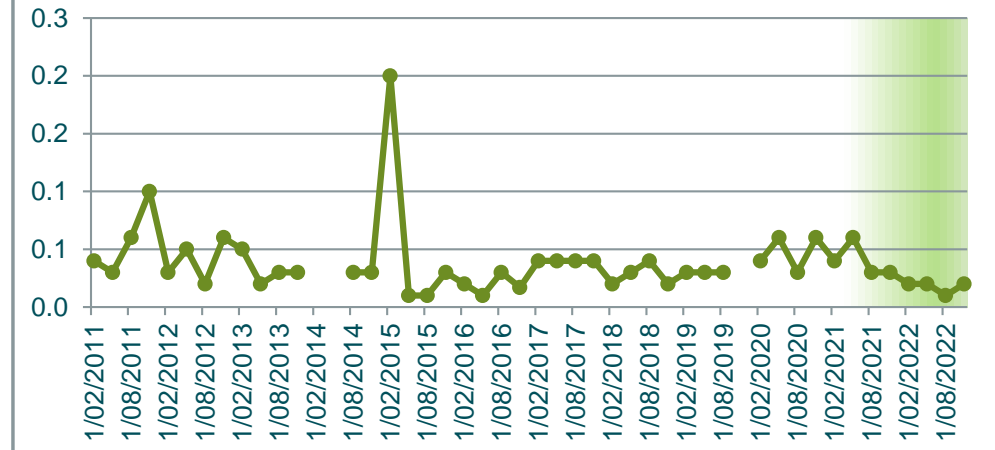
**Copper (Total)
mg/L**



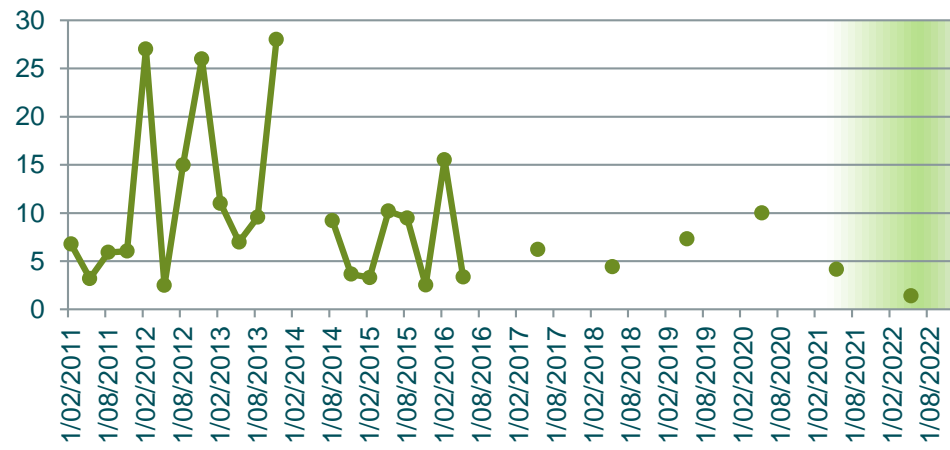
**DO (Membrane Electrode)
mg/L**



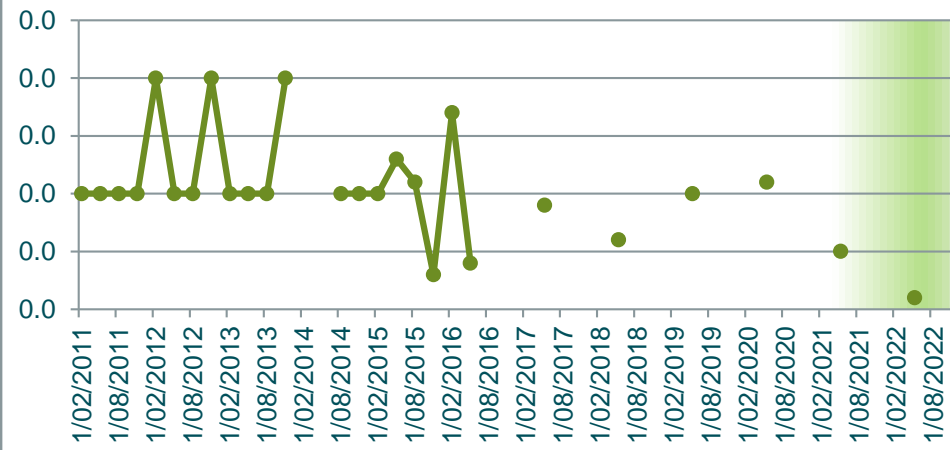
**Flouride
mg/L**



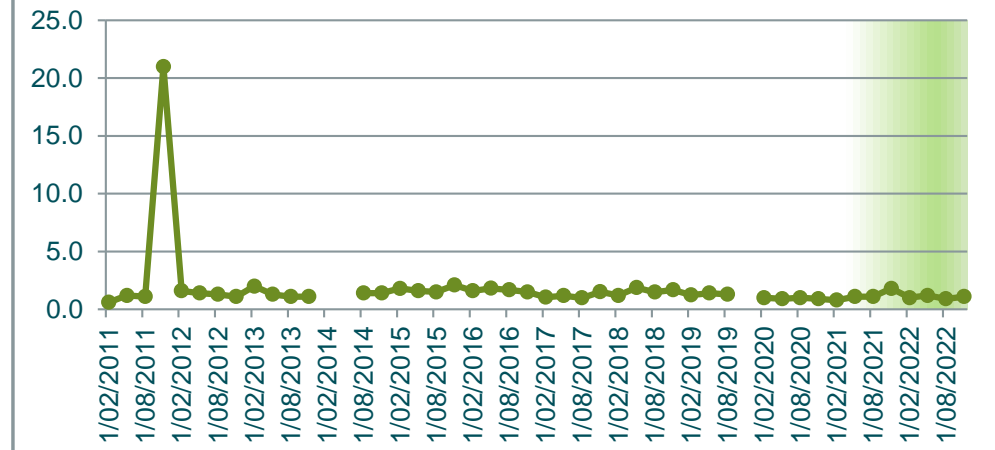
**Iron Total
mg/L**



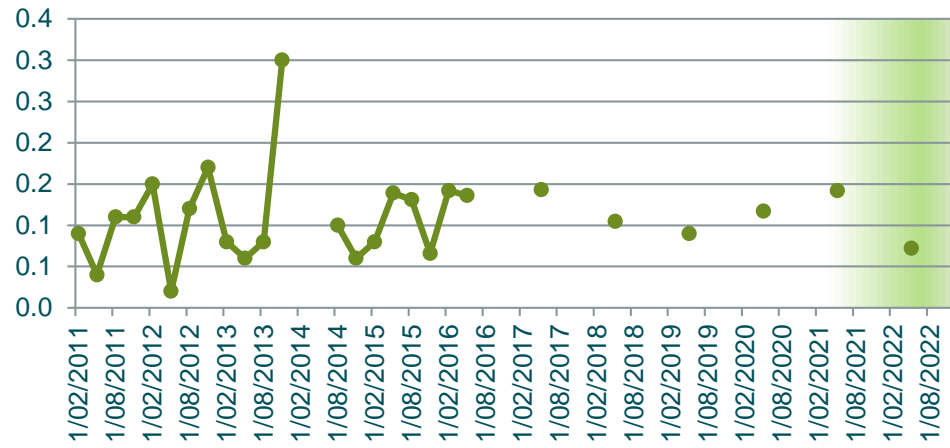
**Lead (Total)
mg/L**



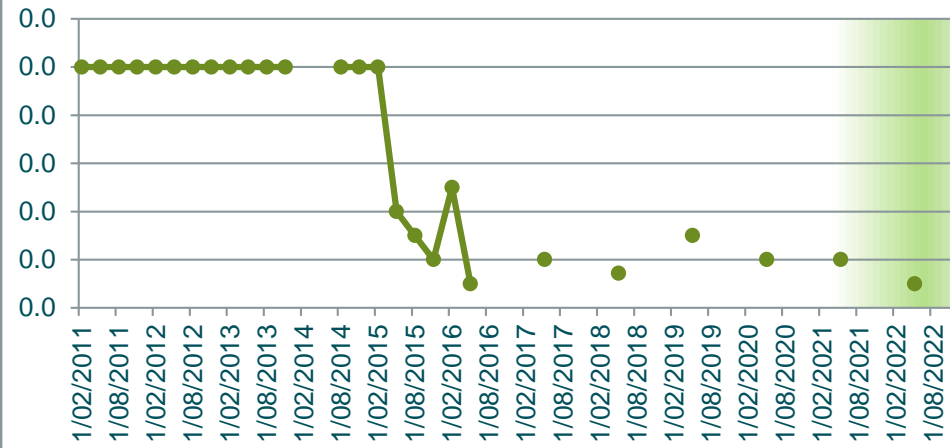
**Magnesium (Total)
mg/L**



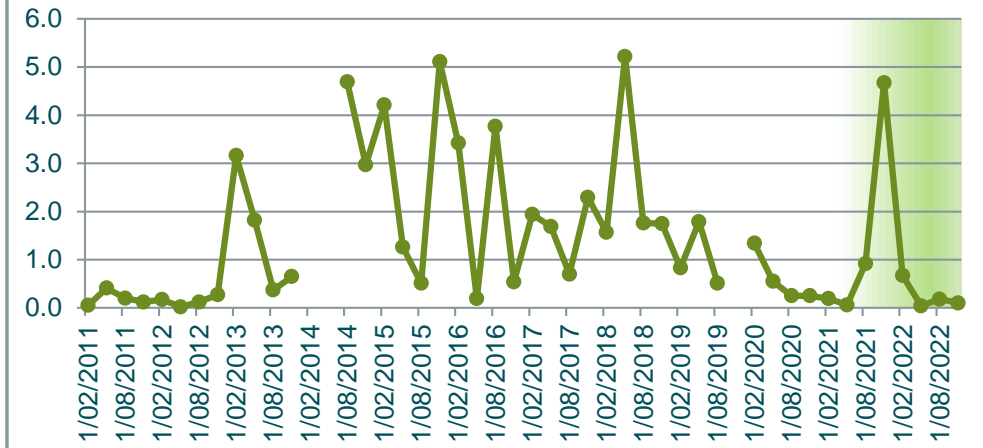
Manganese Total
mg/L



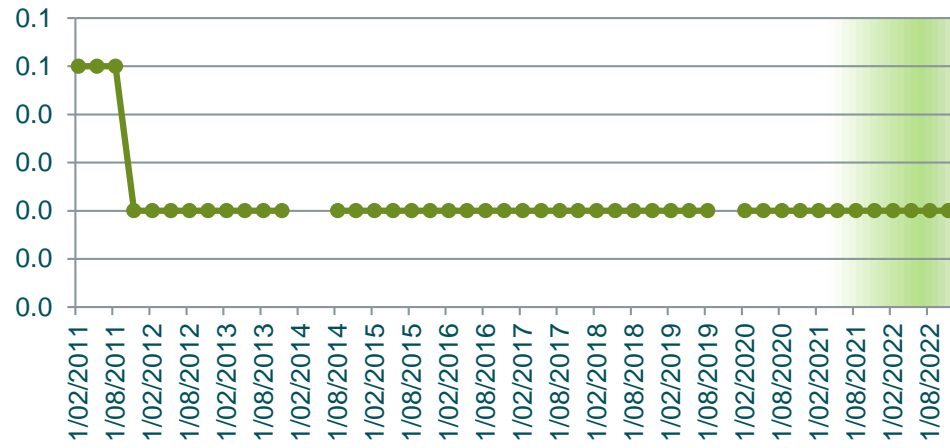
Nickel (Total)
mg/L



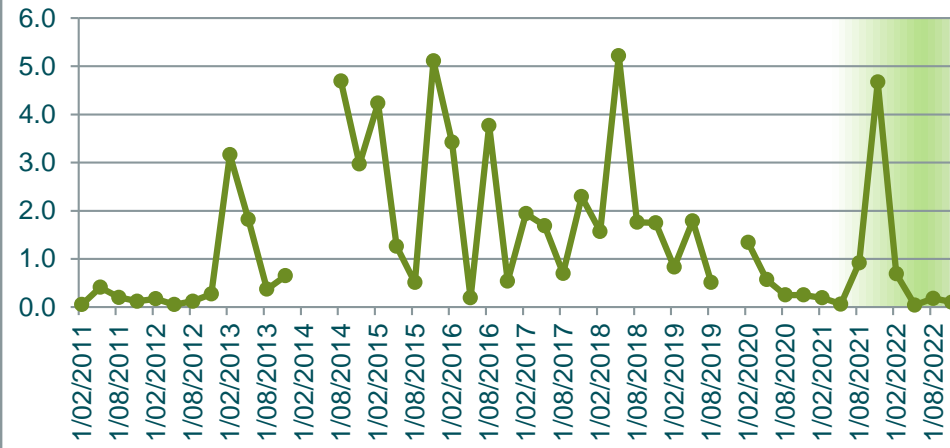
Nitrate
N mg/L



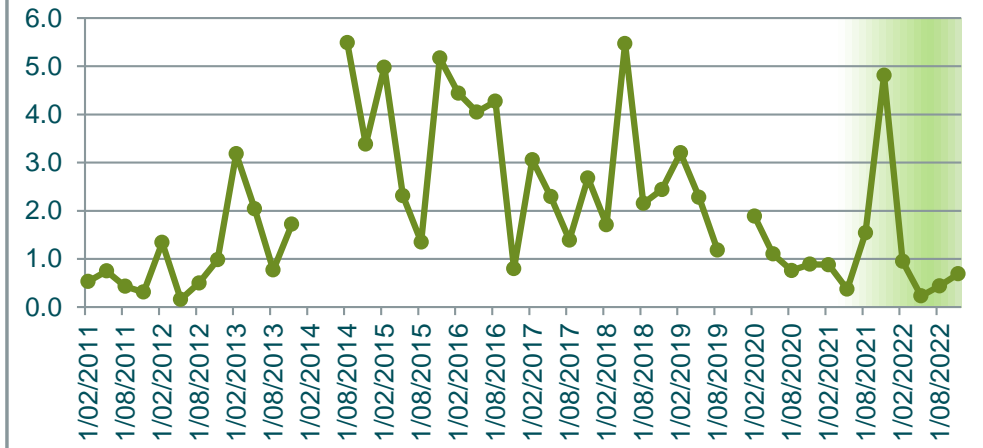
Nitrite
N mg/L



Nitrogen Oxidised
mg/L



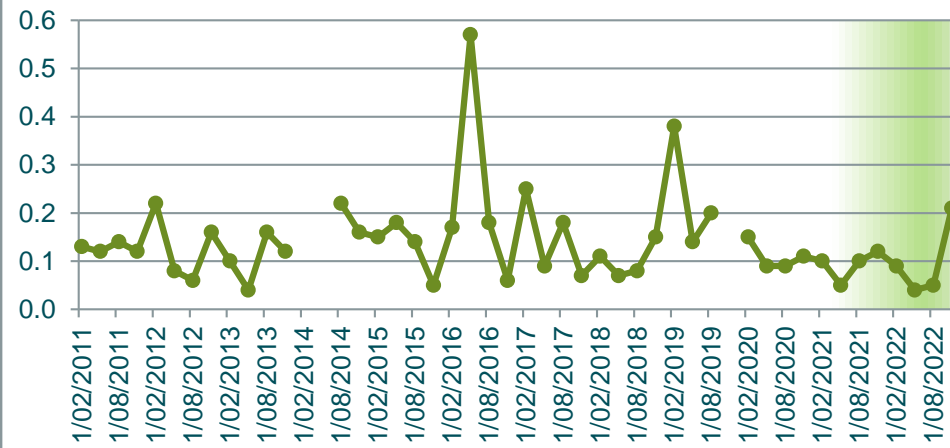
Nitrogen Total
mg/L



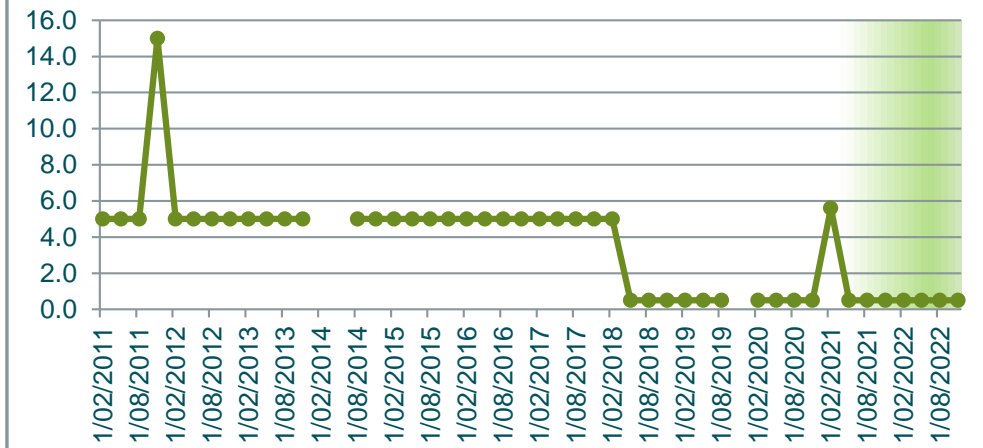
pH
pH units



Phosphorus Total
mg/L



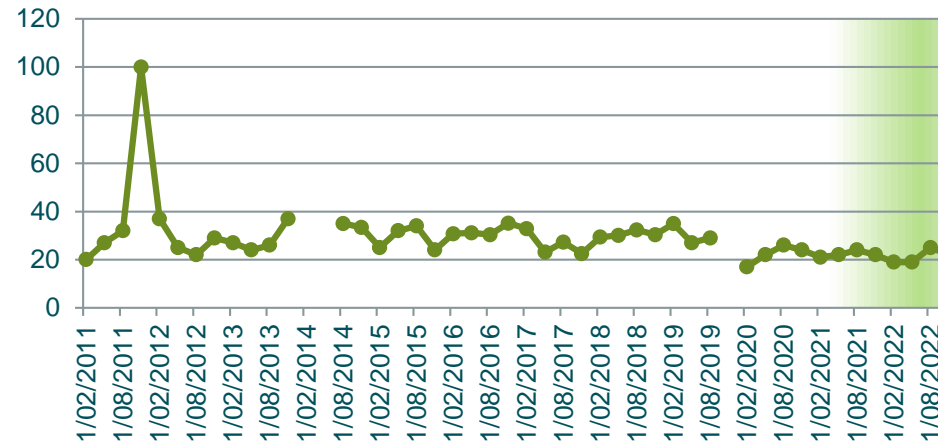
Potassium Total
mg/L



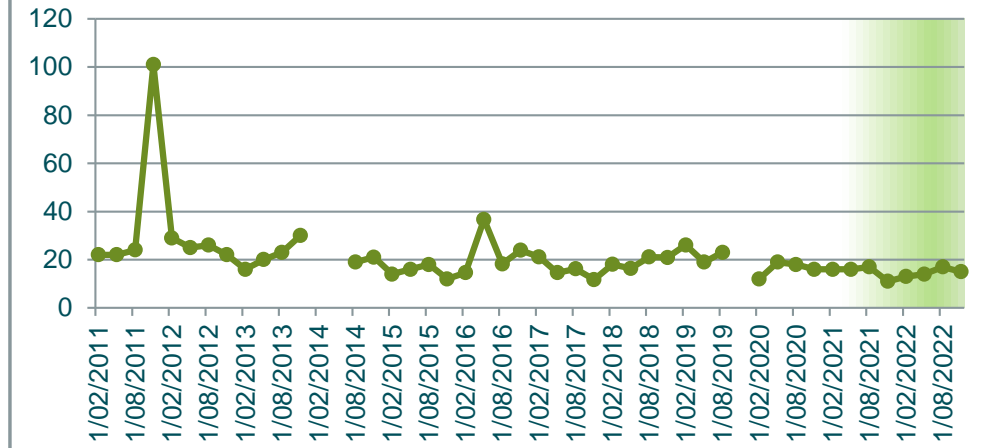
Redox Potential mV



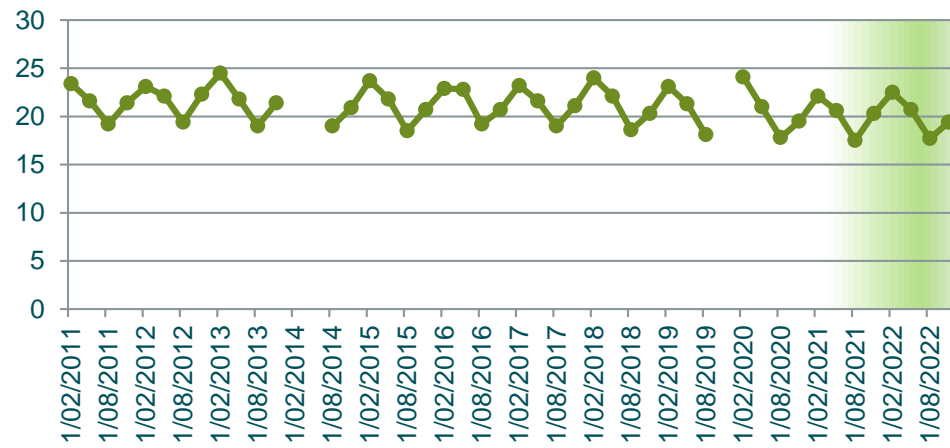
Sodium (Total) mg/L



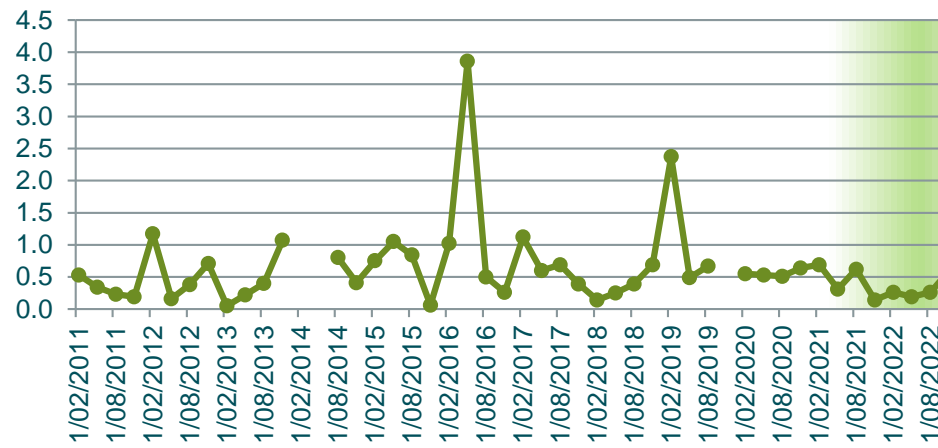
Sulphate mg/L



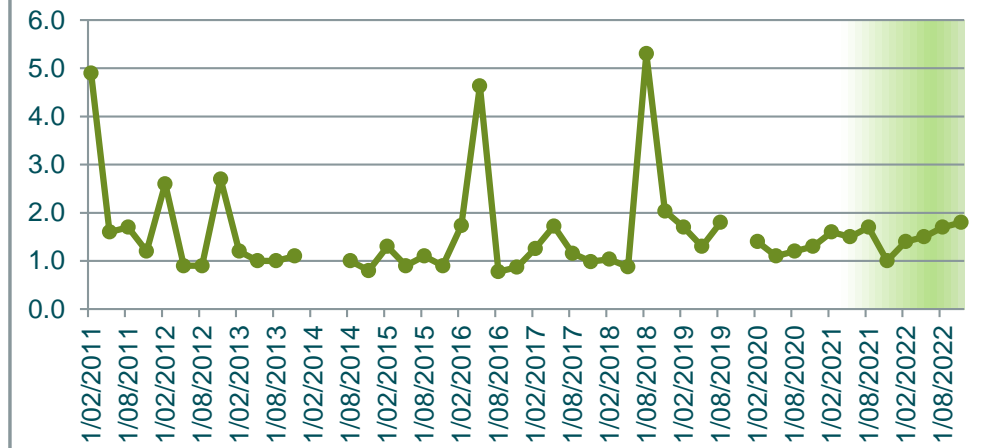
Temperature C



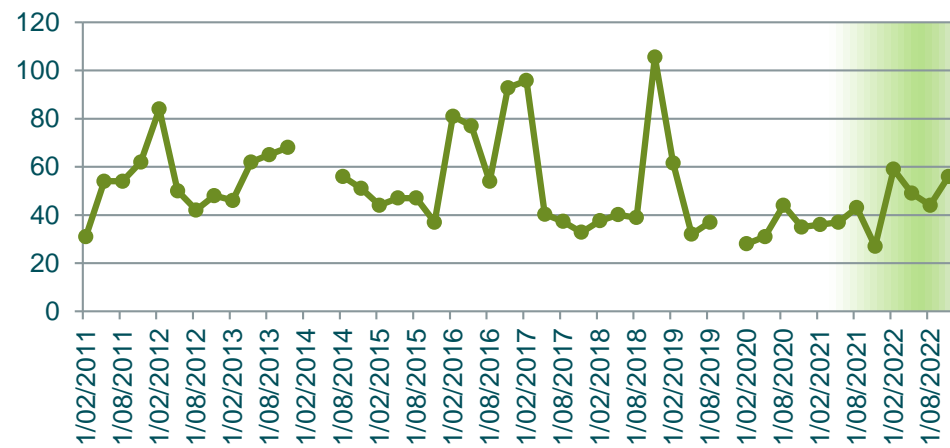
TKN mg/L



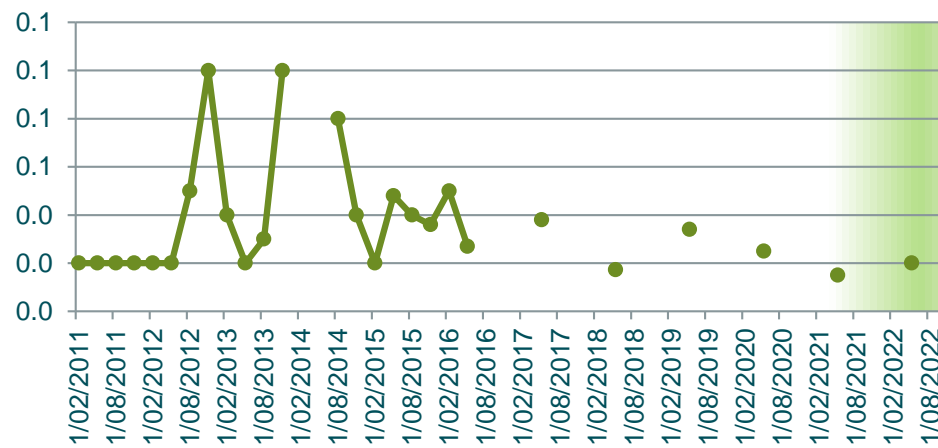
TOC mg/L



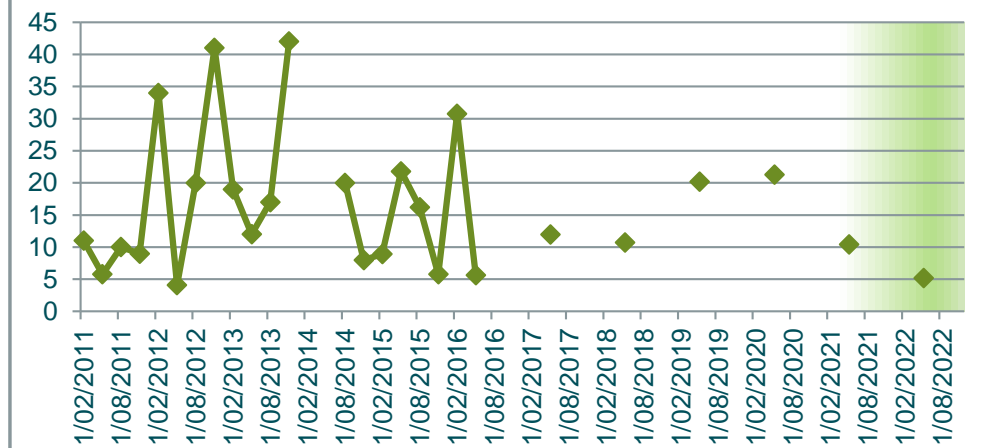
Total Acidity mg/L CaCO3



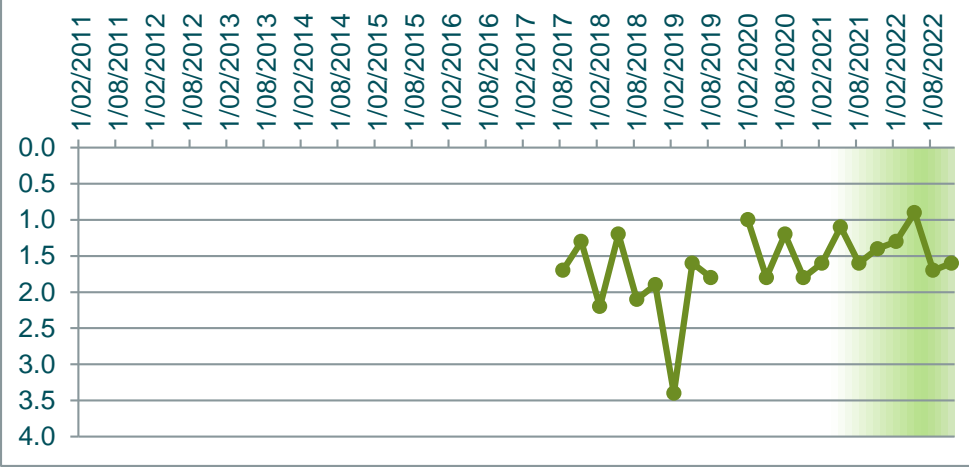
Zinc (Total) mg/L



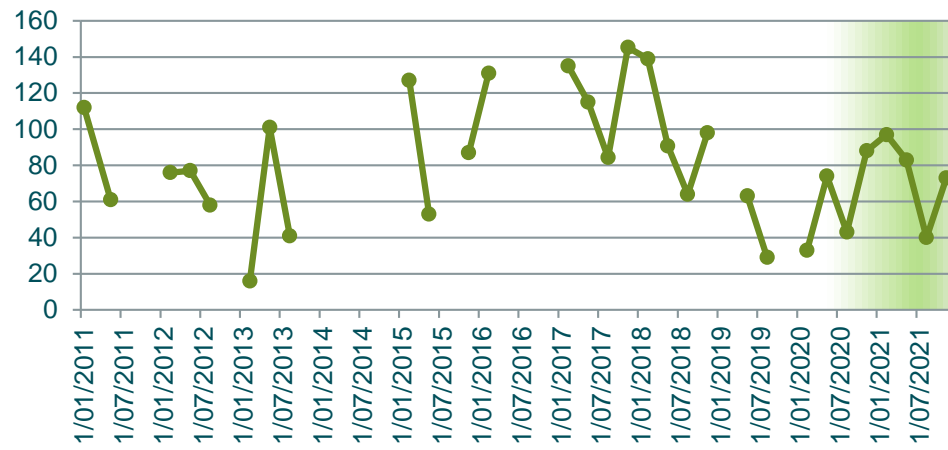
Aluminium (Total) mg/L



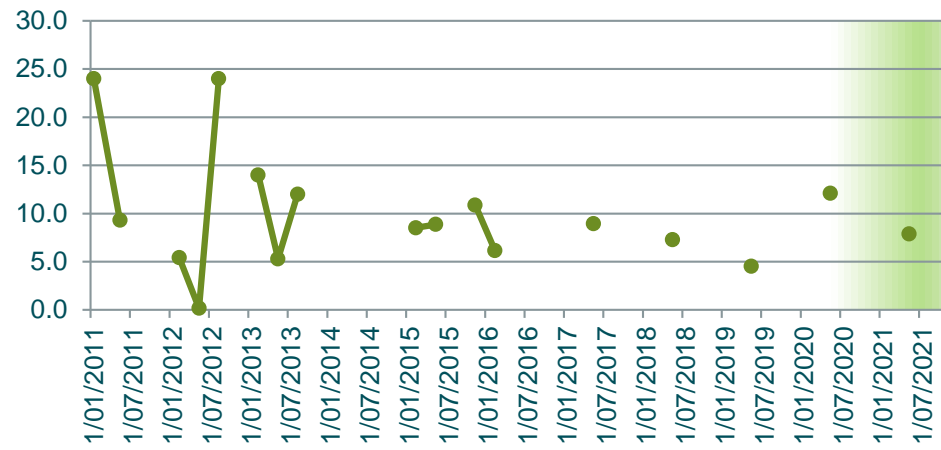
Depth to Groundwater m



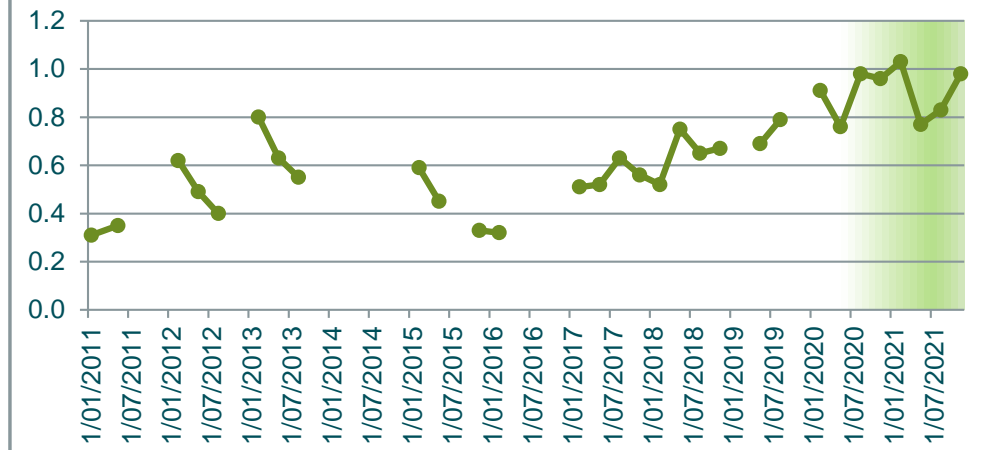
Alkalinity mg/L as CaCO3



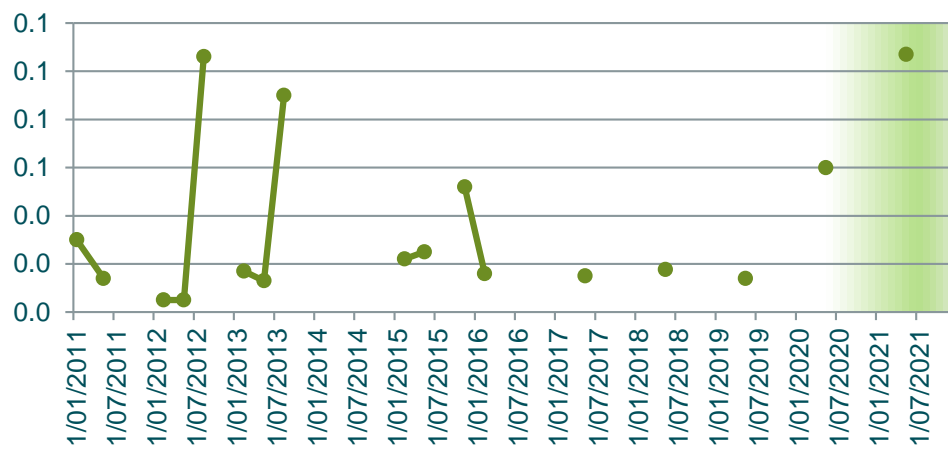
Aluminium (Total) mg/L



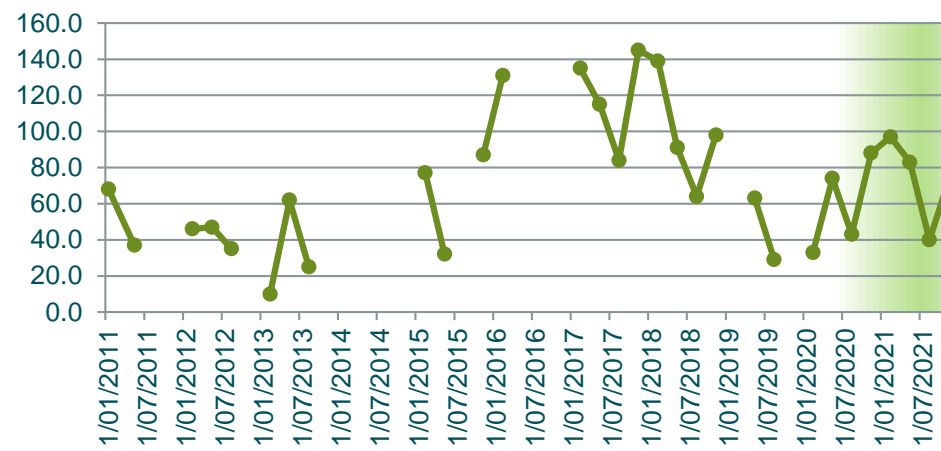
Ammonia mg/L



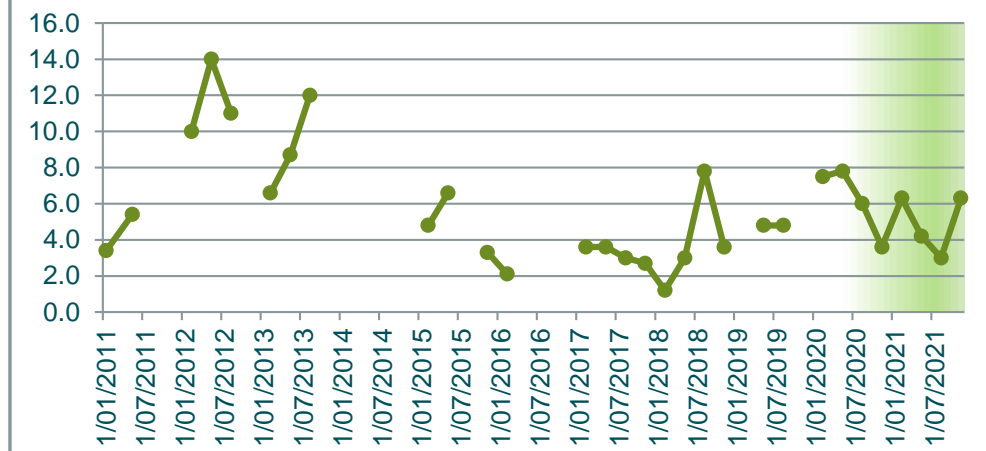
Arsenic (Total) mg/L



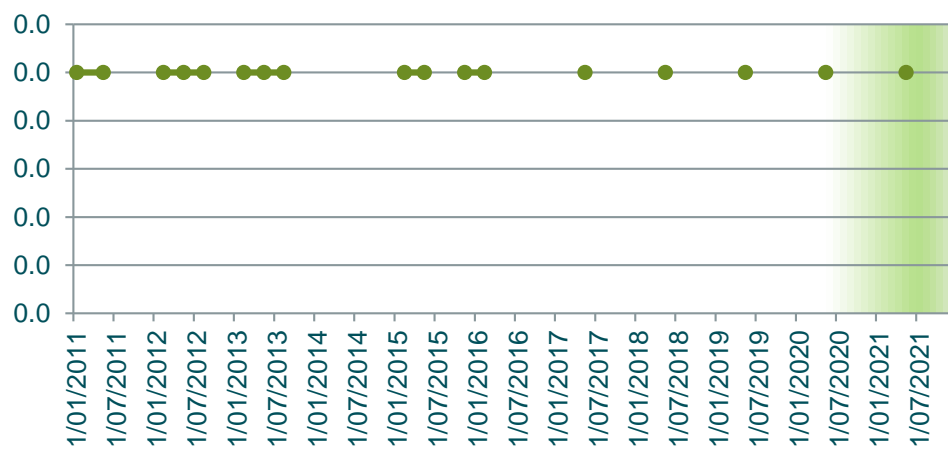
Bicarbonate HCO3 mg/L



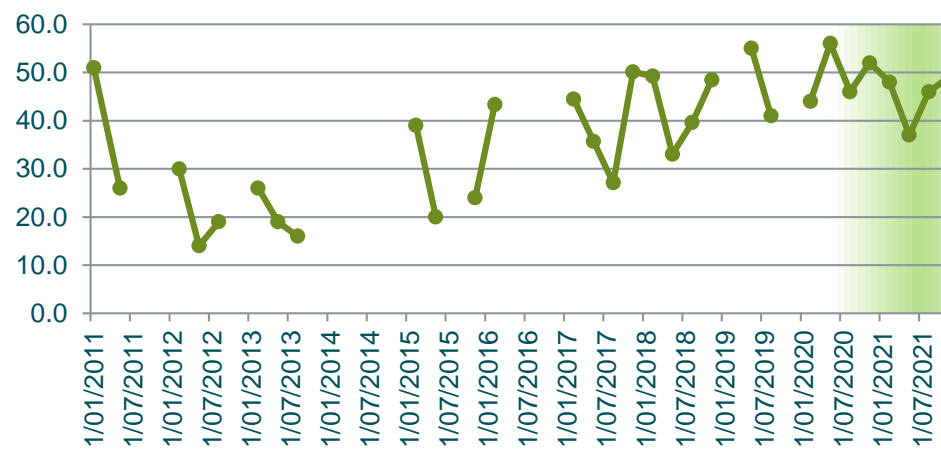
BOD5 mg/L



Cadmium (Total) mg/L



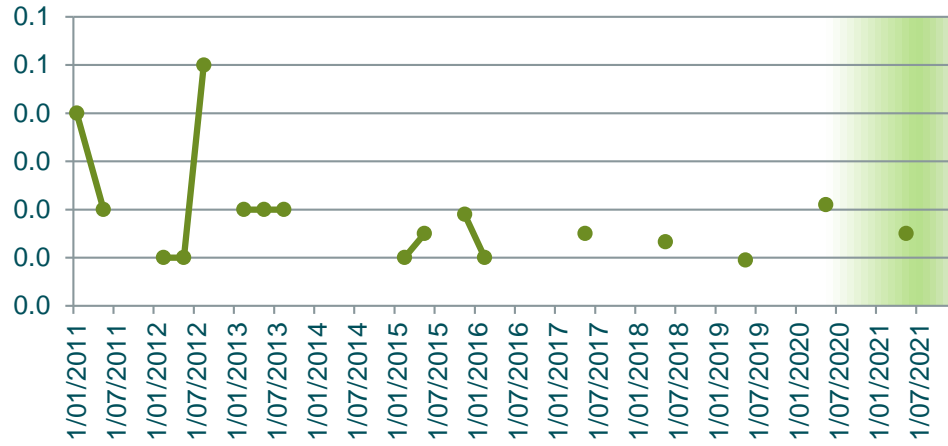
Calcium (Total) mg/L



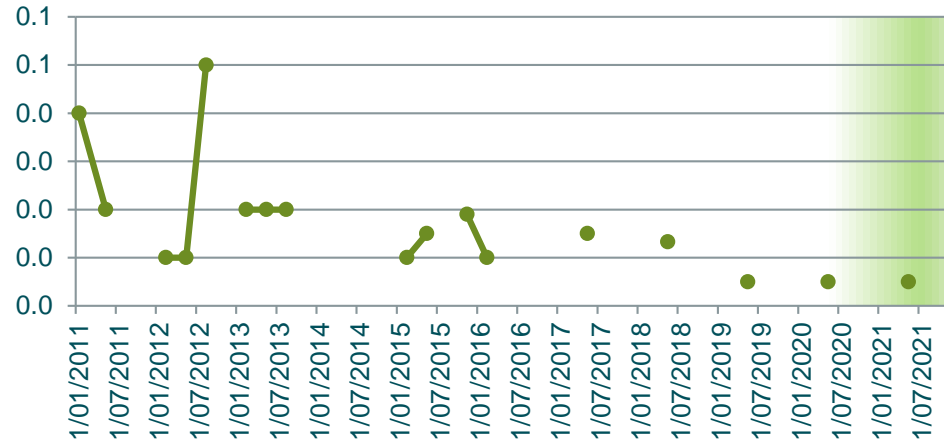
Chloride mg/L



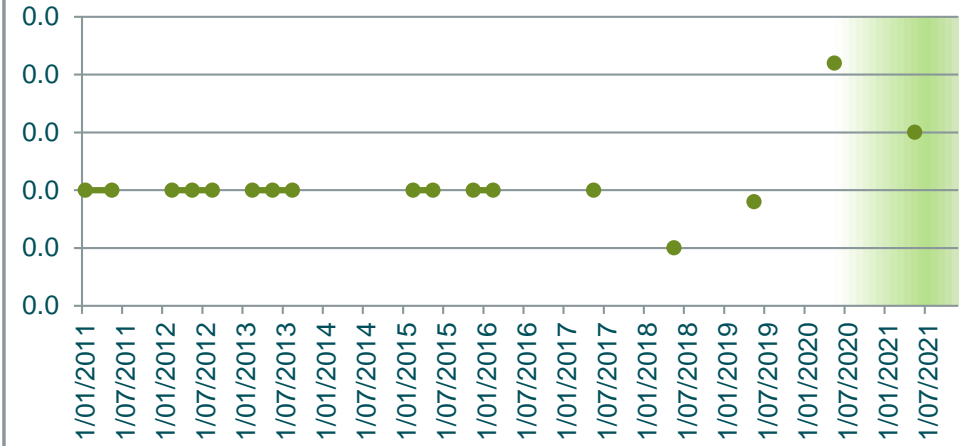
**Chromium (Total)
mg/L**



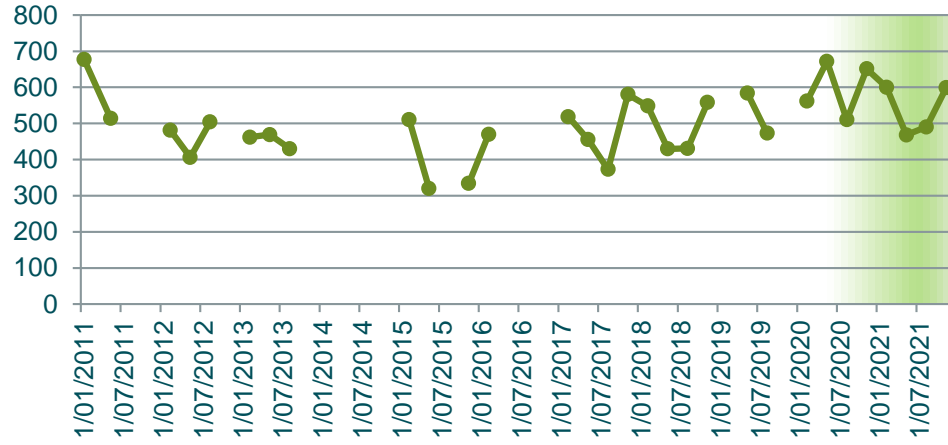
**Chromium 3
mg/L**



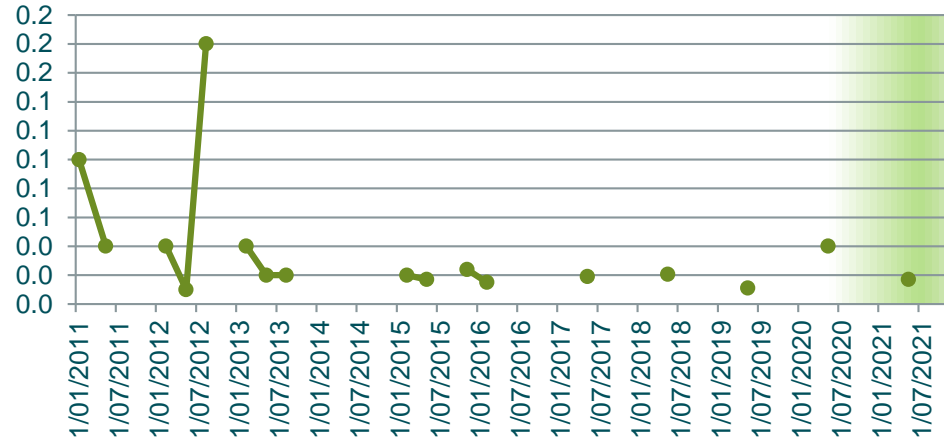
**Chromium 6
mg/L**



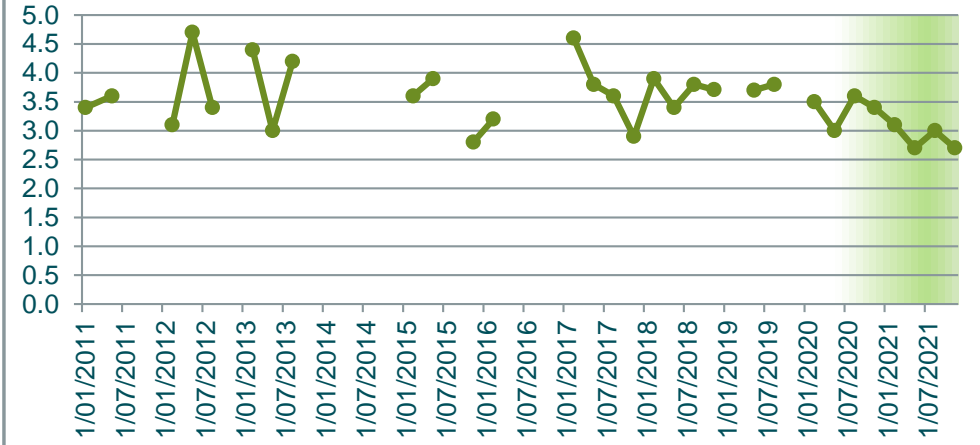
**Conductivity
µScm-1**



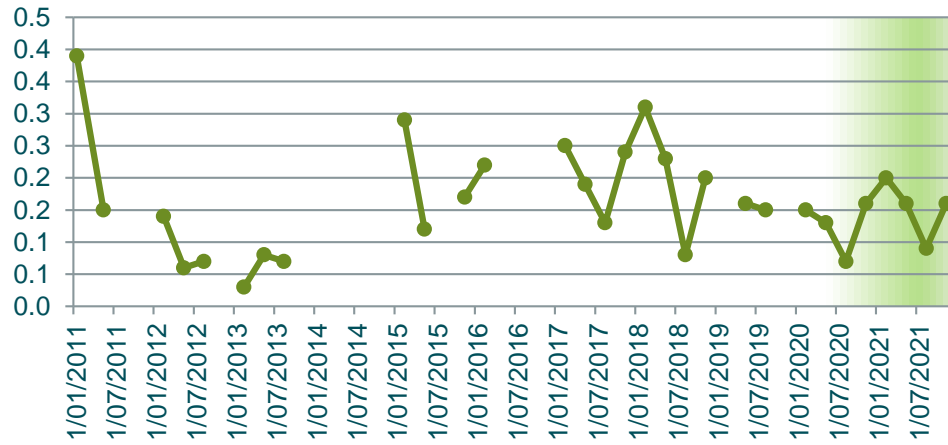
**Copper (Total)
mg/L**



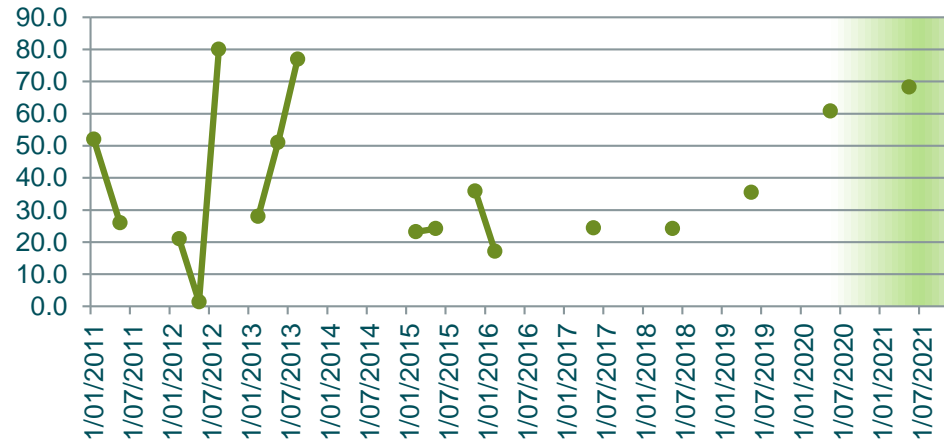
**DO (Membrane Electrode)
mg/L**



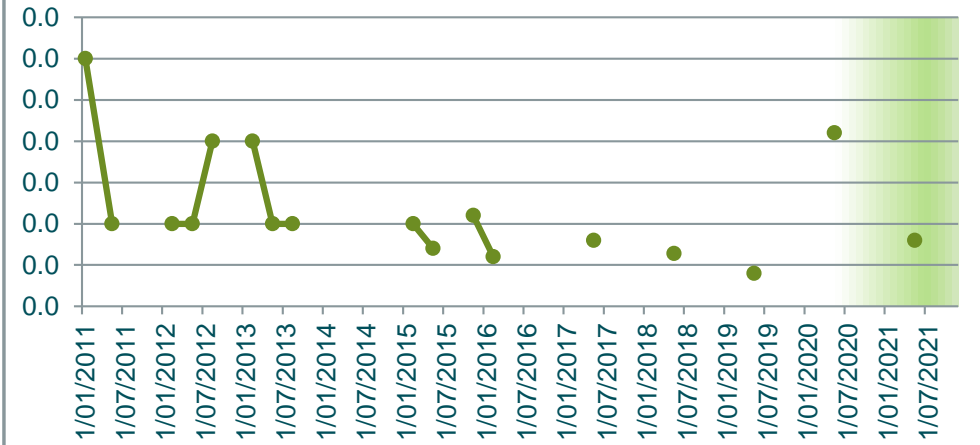
**Flouride
mg/L**

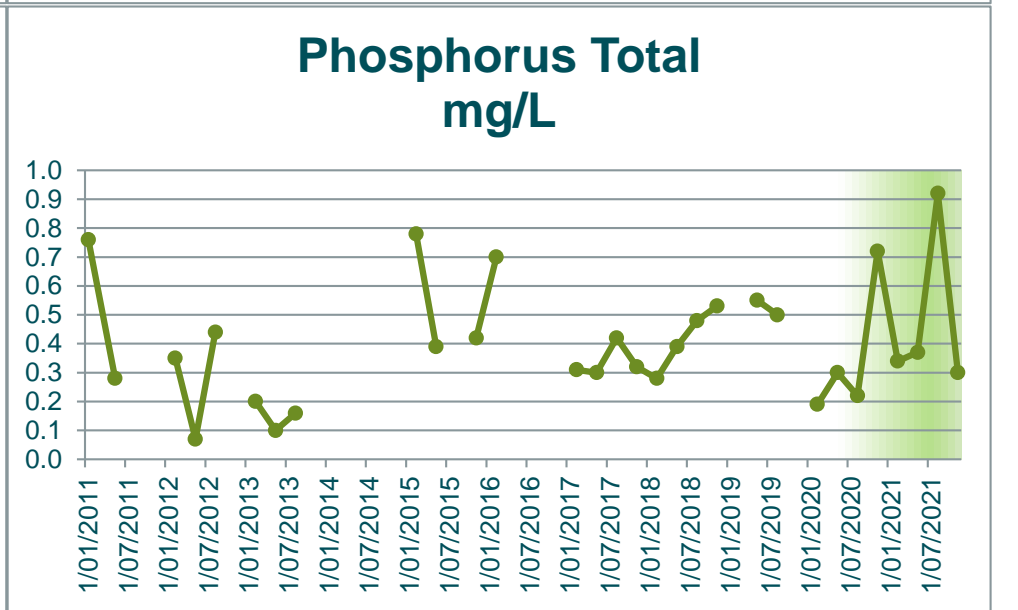
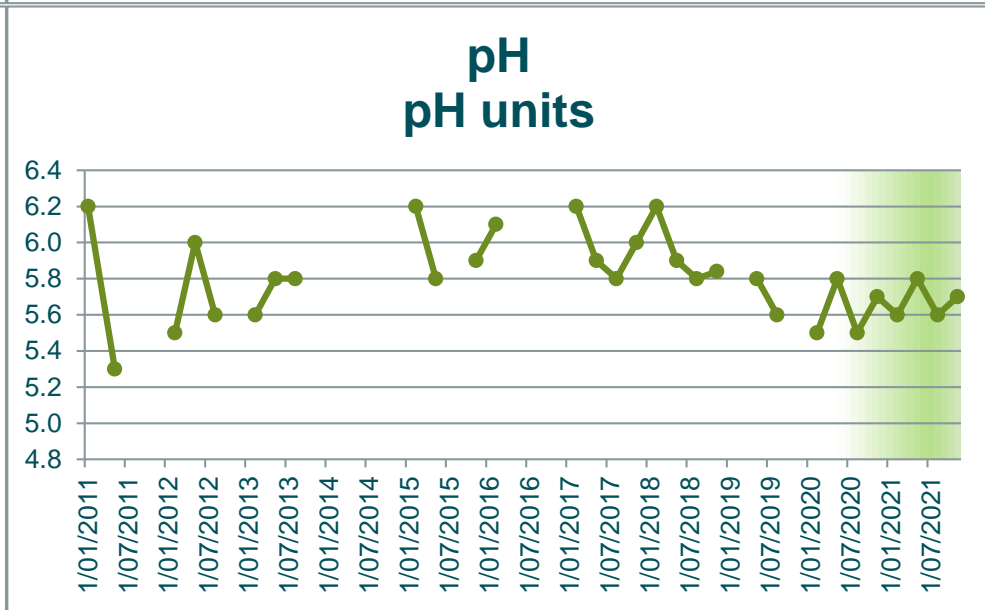
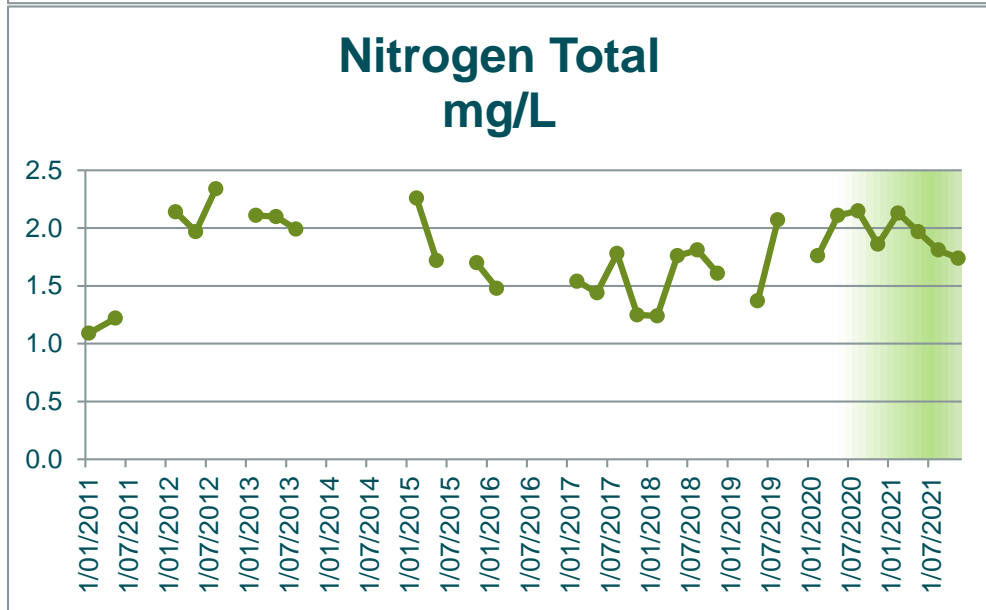
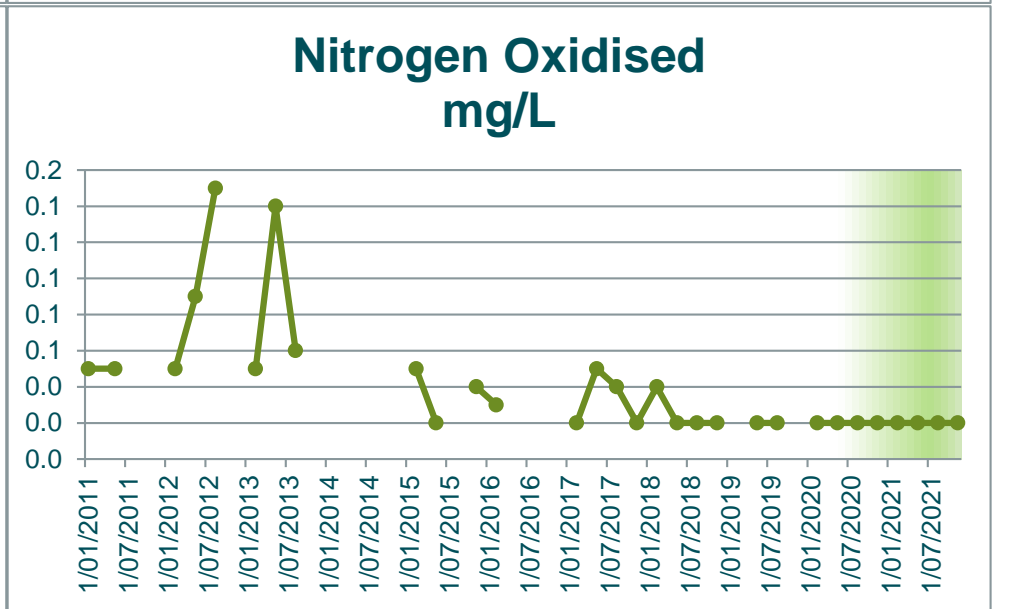
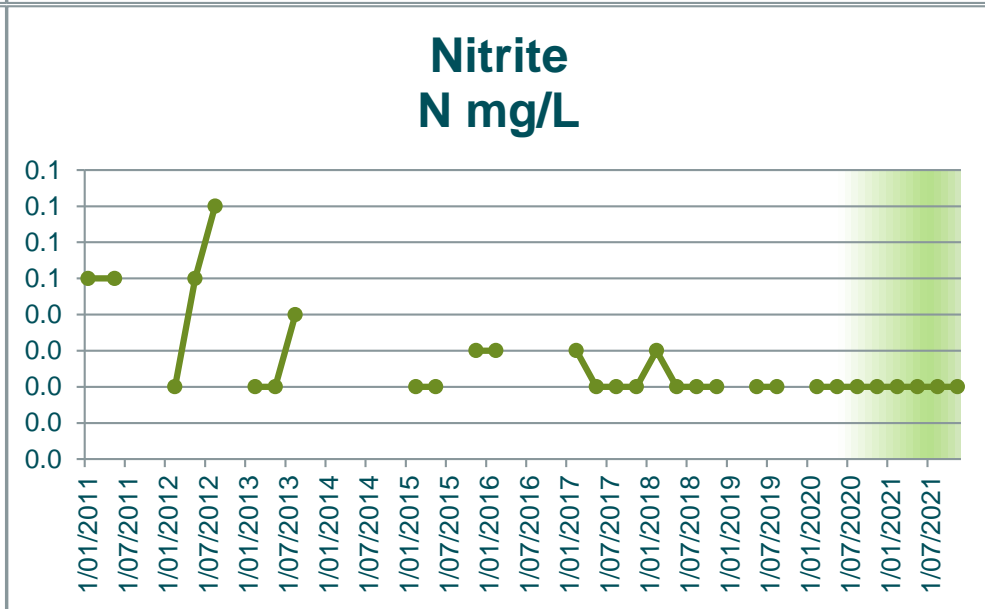
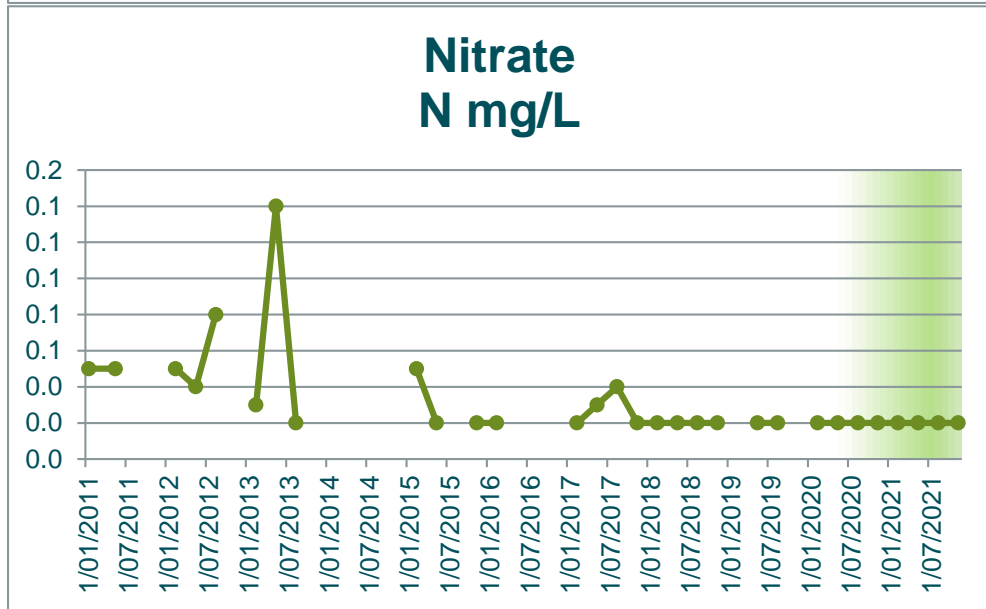
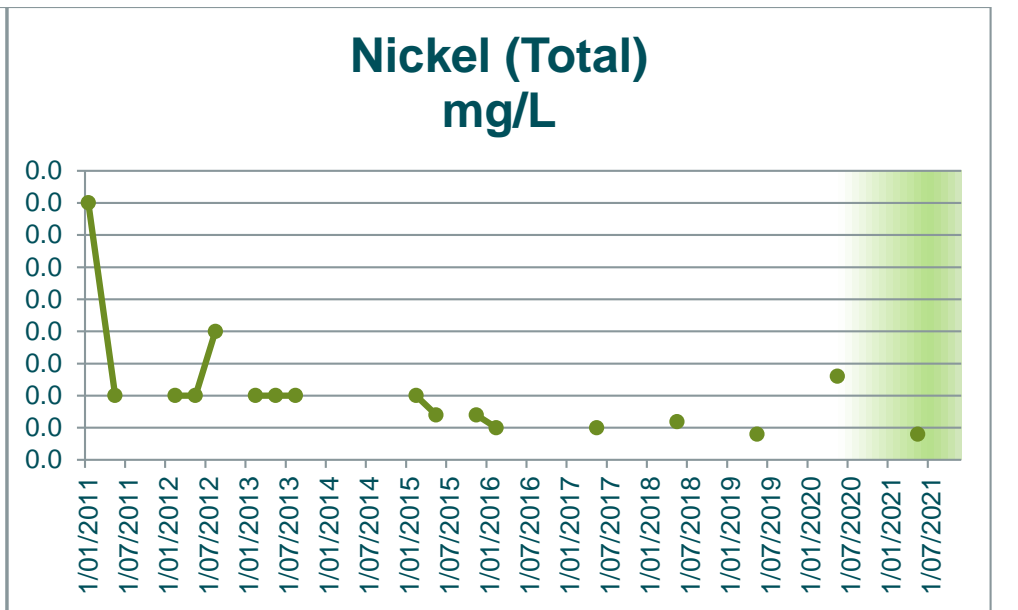
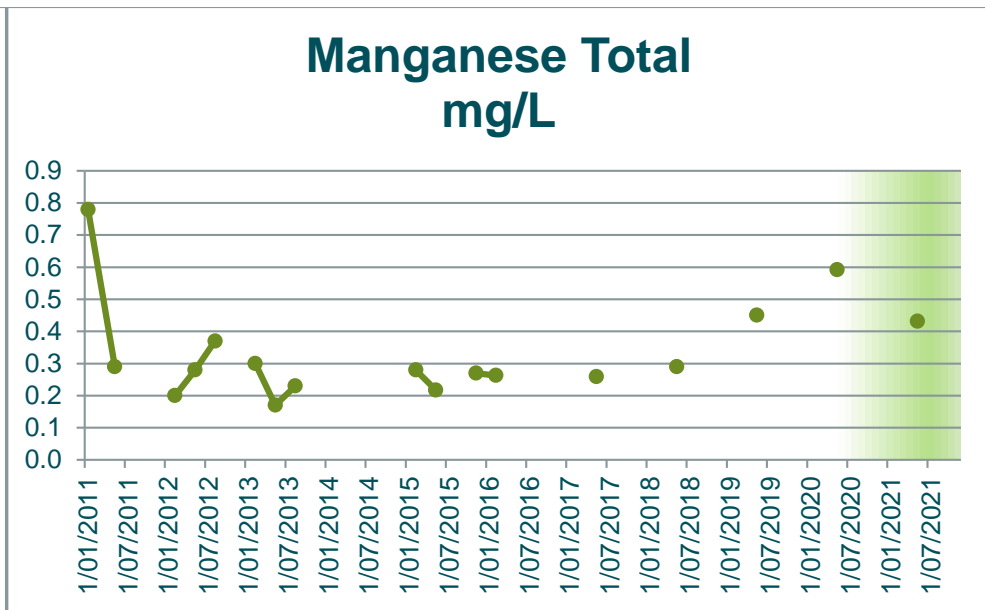
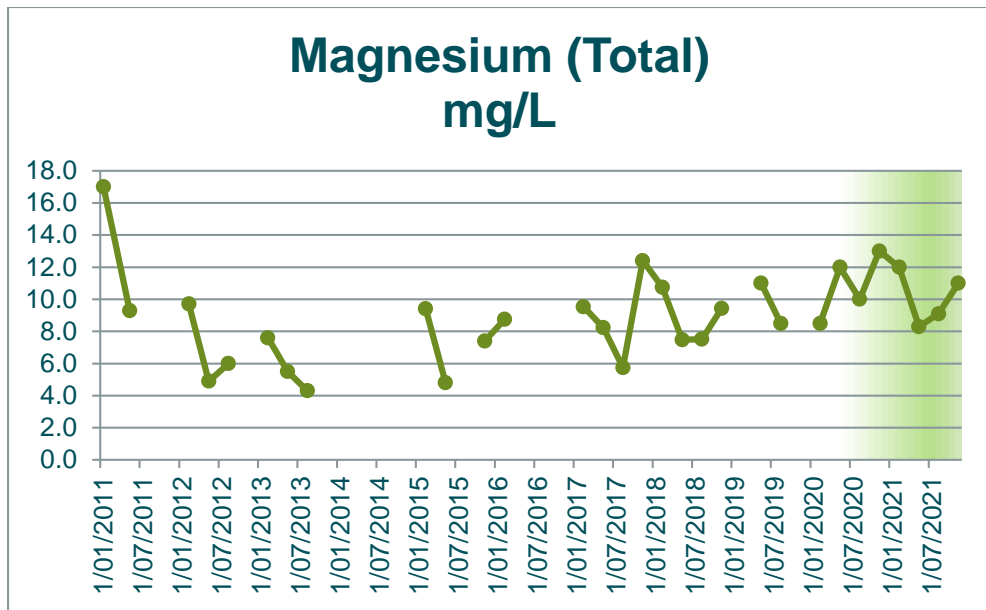


**Iron Total
mg/L**

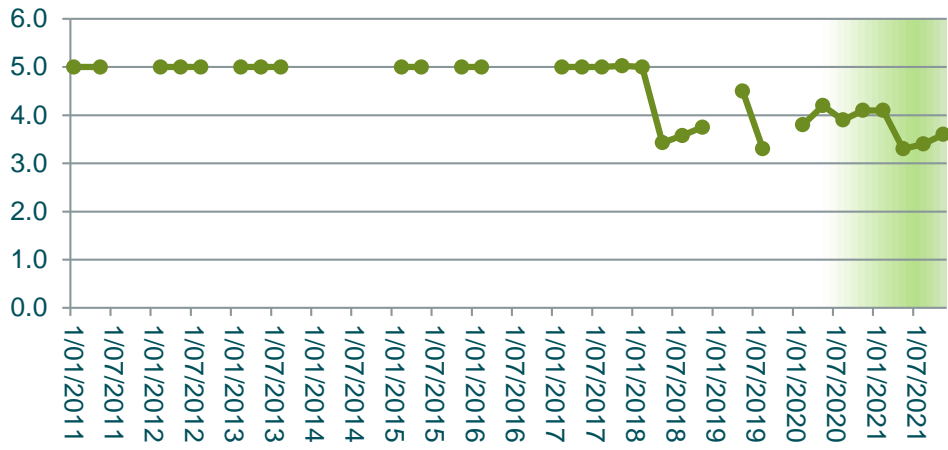


**Lead (Total)
mg/L**

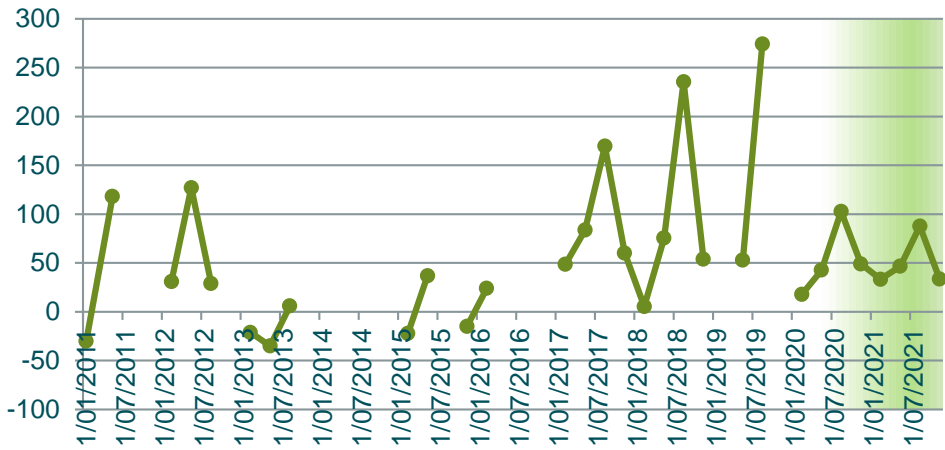




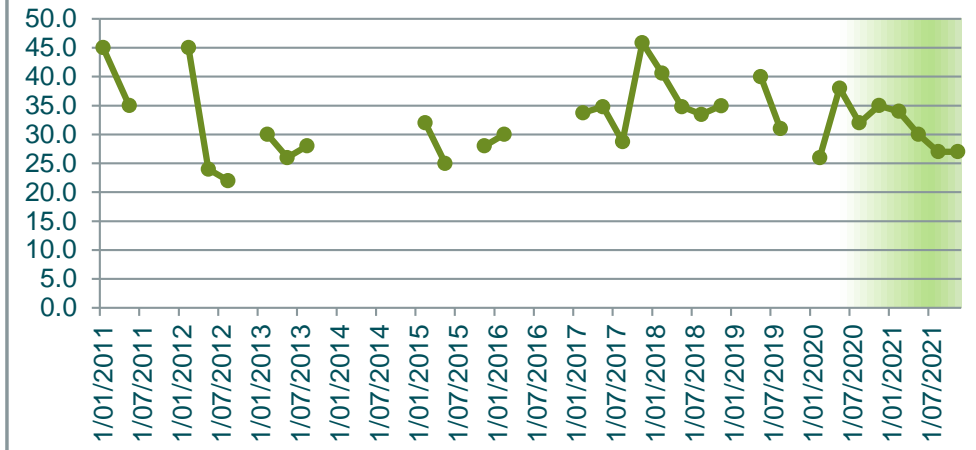
Potassium Total
mg/L



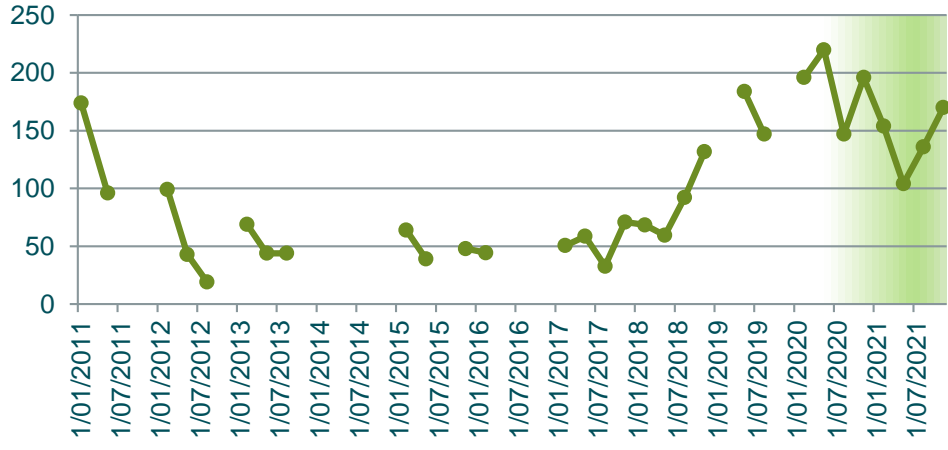
Redox Potential
mV



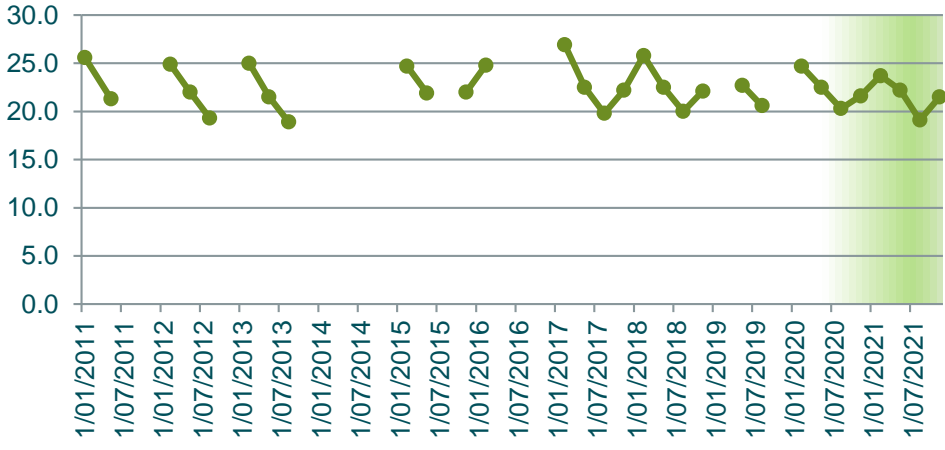
Sodium (Total)
mg/L



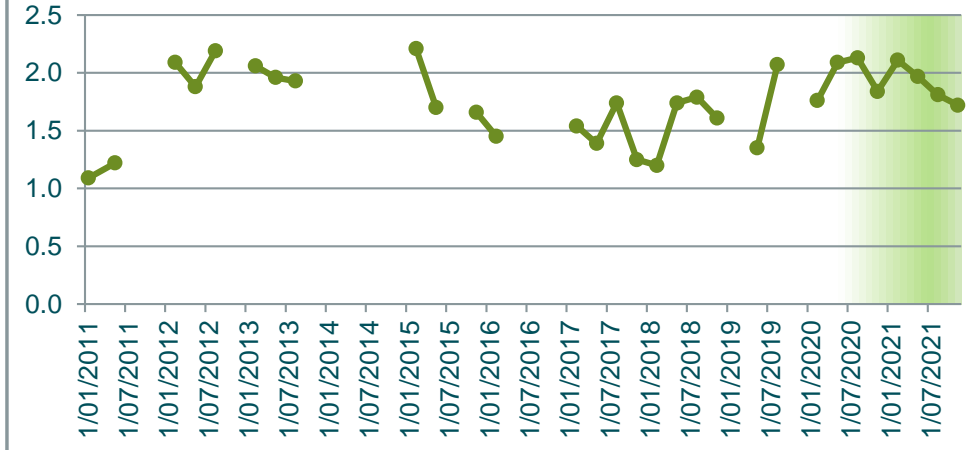
Sulphate
mg/L



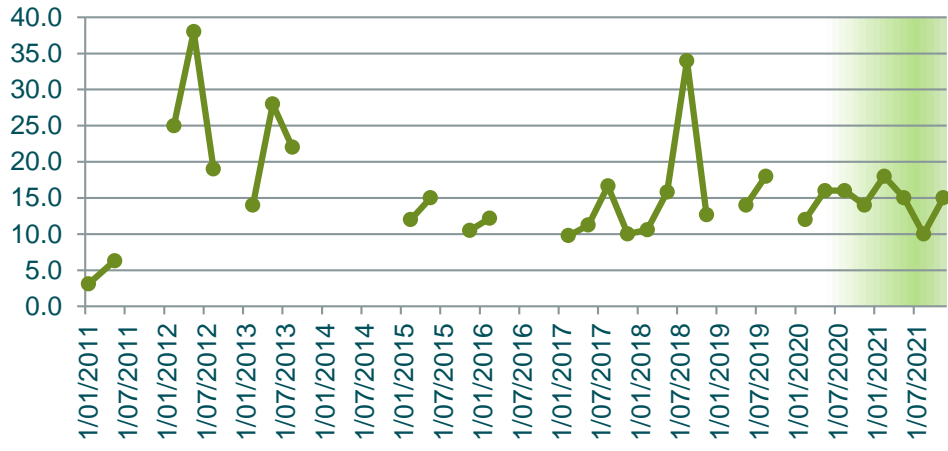
Temperature
C



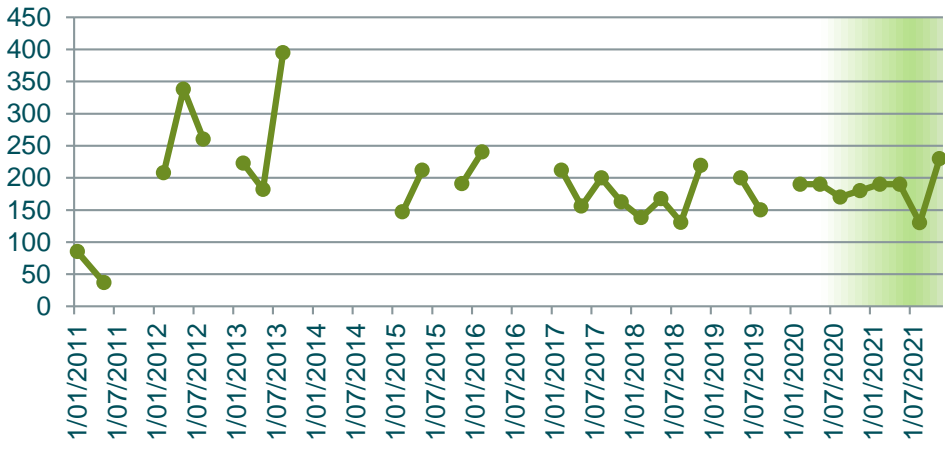
TKN
mg/L



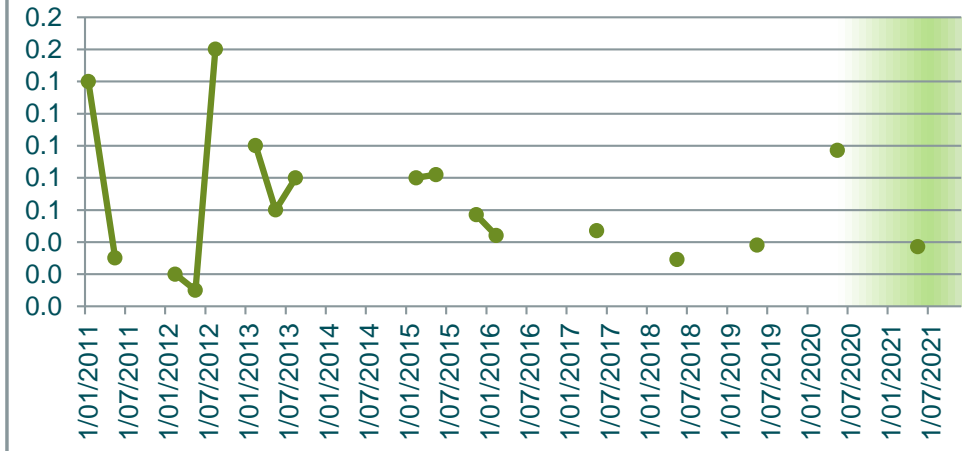
TOC
mg/L



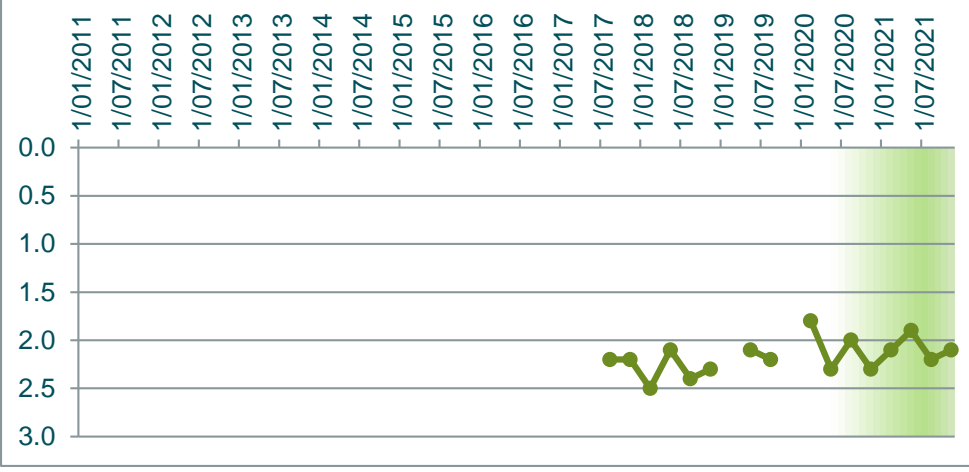
Total Acidity
mg/L CaCO3



Zinc (Total)
mg/L



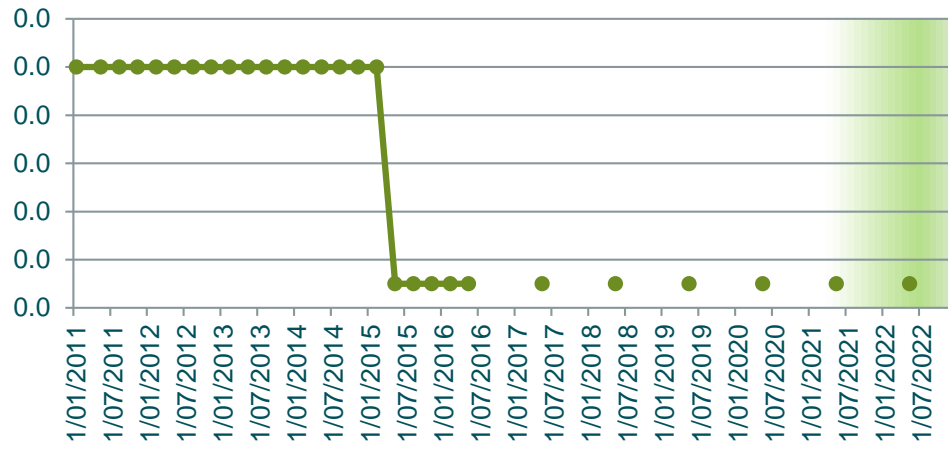
Depth to Groundwater m



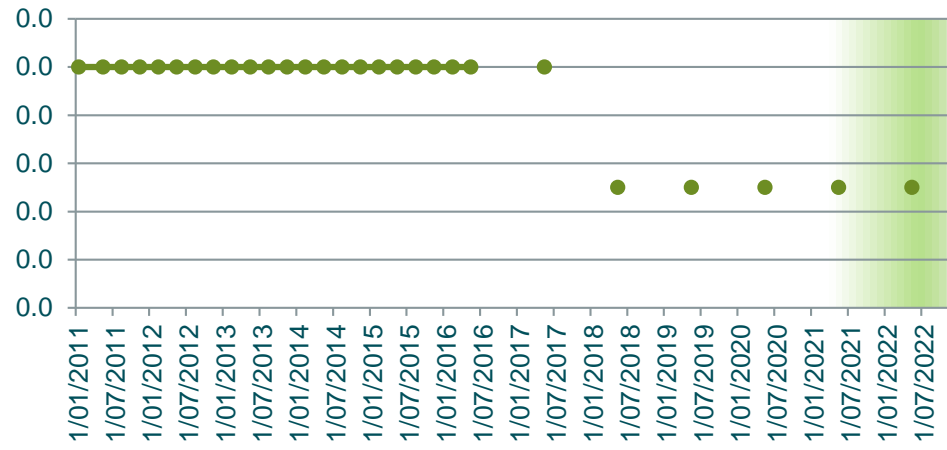
Depth to Groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH	pH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity uScm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW19					
31/01/2011	41	0.1	0.1	0.0	25	1.0	0.0	1.0	42	0.0	0.0	0.0	292	0.0	2.0	0.2	0.3	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.4	0.1	0.4	0.4	6.5		0.1	5.0	69	46	29	22	0.1	8.4	29	0.0	
10/05/2011	45	0.1	0.1	0.0	27	1.2	0.0	1.1	65	0.0	0.0	0.0	365	0.0	2.4	0.2	0.2	0.0	1.1	0.0	0.0	0.5	0.1	0.5	0.5	6.0		0.1	5.0	126	60	31	21	0.1	1.0	27	0.0						
9/08/2011	43	0.2	0.1	0.0	26	1.0	0.0	1.3	42	0.0	0.0	0.0	350	0.0	3.7	0.2	0.2	0.0	1.2	0.0	0.0	0.5	0.1	0.5	0.5	6.5		0.1	5.0	164	57	30	21	0.1	1.0	35	0.0						
8/11/2011	49	0.3	0.0	0.0	30	1.0	0.0	1.6	50	0.0	0.0	0.0	311	0.0	4.9	0.2	0.4	0.0	1.4	0.0	0.0	0.5	0.0	0.5	0.5	6.4		0.1	6.0	111	45	39	21	0.1	1.2	26	0.0						
6/02/2012	43	0.2	0.0	0.0	26	1.0	0.0	1.3	42	0.0	0.0	0.0	311	0.0	1.8	0.1	0.2	0.0	1.1	0.0	0.0	0.5	0.0	0.5	0.5	6.1		0.1	5.0	138	71	38	22	0.1	0.1	36	0.0						
8/05/2012	43	0.6	0.0	0.0	26	1.8	0.0	1.3	42	0.0	0.0	0.0	325	0.0	4.9	0.1	48.0	0.0	1.1	0.1	0.0	0.5	0.0	0.5	0.5	7.5		0.1	5.0	102	62	30	22	0.1	0.8	30	0.0						
6/08/2012	43	0.2	0.0	0.0	26	2.1	0.0	1.4	40	0.0	0.0	0.0	339	0.0	4.3	0.1	0.4	0.0	1.0	0.1	0.0	0.5	0.0	0.5	0.5	6.0		0.1	5.0	84	46	29	21	0.1	0.7	34	0.0						
13/11/2012	42	0.3	0.0	0.0	26	1.0	0.0	1.2	42	0.0	0.0	0.0	324	0.0	2.6	0.2	0.4	0.0	1.0	0.0	0.0	0.5	0.0	0.5	0.5	6.3		0.1	5.0	88	54	27	21	0.1	0.2	36	0.0						
13/02/2013	46	0.5	0.0	0.0	28	1.0	0.0	1.3	44	0.0	0.0	0.0	353	0.0	1.5	0.1	0.6	0.0	1.0	0.0	0.0	0.4	0.0	0.4	0.4	6.1		0.1	5.0	78	59	31	23	0.1	0.2	27	0.0						
14/05/2013	41	0.1	0.0	0.0	25	1.0	0.0	1.0	40	0.0	0.0	0.0	321	0.0	3.5	0.1	0.3	0.0	0.6	0.0	0.0	0.5	0.0	0.5	0.4	6.3		0.1	5.0	28	56	30	22	0.1	0.4	46	0.0						
6/08/2013	44	0.1	0.0	0.0	27	1.0	0.0	1.0	42	0.0	0.0	0.0	331	0.0	3.6	0.2	0.3	0.0	0.6	0.0	0.0	0.5	0.0	0.5	0.5	6.3		0.1	5.0	43	61	34	21	0.1	0.4	57	0.0						
12/11/2013	43	0.3	0.0	0.0	26	1.0	0.0	1.2	44	0.0	0.0	0.0	325	0.0	3.9	0.2	0.5	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.5	6.6		0.1	5.0	68	65	34	21	0.1	0.3	17	0.1						
11/02/2014	44	0.2	0.1	0.0	27	1.0	0.0	1.0	43	0.0	0.0	0.0	309	0.0	1.3	0.1	0.2	0.0	0.7	0.0	0.0	0.5	0.0	0.5	0.7	6.5		0.1	5.0	48	61	33	22	0.2	0.5	105	0.0						
13/05/2014	42	0.2	0.0	0.0	26	1.0	0.0	0.9	45	0.0	0.0	0.0	326	0.0	2.3	0.2	0.3	0.0	0.6	0.0	0.0	0.6	0.0	0.6	0.6	6.2		0.1	5.0	18	59	30	22	0.1	0.4	35	0.0						
12/08/2014	43	0.1	0.0	0.0	26	1.8	0.0	1.1	43	0.0	0.0	0.0	316	0.0	5.8	0.2	0.1	0.0	0.7	0.0	0.0	0.4	0.0	0.4	0.4	7.0		0.1	5.0	26	63	32	21	0.1	0.2	42	0.0						
10/11/2014	44	0.1	0.0	0.0	27	1.0	0.0	1.0	45	0.0	0.0	0.0	314	0.0	3.8	0.2	0.1	0.0	0.8	0.0	0.0	0.4	0.0	0.4	0.4	6.8		0.1	5.0	38	64	35	22	0.1	0.2	76	0.0						
9/02/2015	46	0.1	0.0	0.0	28	1.0	0.0	1.0	44	0.0	0.0	0.0	321	0.0	2.1	0.2	0.2	0.0	0.8	0.0	0.0	0.4	0.0	0.4	0.4	6.6		0.1	5.0	31	59	34	24	0.1	0.2	39	0.0						
11/05/2015	43	0.1	0.0	0.0	26	1.0	0.0	1.1	41	0.0	0.0	0.0	315	0.0	3.1	0.2	0.2	0.0	0.9	0.0	0.0	0.4	0.0	0.4	0.4	6.4		0.1	5.0	47	61	30	22	0.1	0.9	42	0.0						
11/08/2015	44	0.0	0.0	0.0	44	1.0	0.0	1.1	40	0.0	0.0	0.0	304	0.0	7.5	0.2	0.1	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.5	6.7		0.1	5.0	64	61	29	21	0.1	0.6	21	0.0						
10/11/2015	44	0.1	0.0	0.0	44	1.0	0.0	1.0	44	0.0	0.0	0.0	252	0.0	4.8	0.2	0.1	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.4	6.5		0.1	5.0	-11	58	31	21	0.1	0.2	31	0.0						
8/02/2016	44	0.1	0.0	0.0	44	1.0	0.0	1.1	41	0.0	0.0	0.0	306	0.0	3.0	0.3	0.1	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.5	6.7		0.1	5.0	99	60	30	23	0.1	0.6	50	0.0						
9/05/2016	44	0.0	0.0	0.0	44	1.0	0.0	1.0	42	0.0	0.0	0.0	311	0.0	3.4	0.2	0.1	0.0	0.7	0.0	0.0	0.5	0.0	0.5	0.5	6.3		0.1	5.0	69	57	29	22	0.1	1.0	44	0.0						
9/08/2016	45		0.0		44	1.0		1.1	41				304		7.0	0.2			0.8			0.5	0.0	0.5	0.6	6.4		0.1	5.0	139	60	32	21	0.1	0.2	32							
7/11/2016	46		0.0		46	1.0		1.1	42				302		5.1	0.2			0.8			0.4	0.0	0.4	0.5	6.4		0.1	5.0	285	63	31	22	0.1	0.4	32							
7/02/2017	45		0.0		45	1.0		1.0	42				305		3.3	0.3			0.7			0.4	0.0	0.4	0.4	6.1		0.1	5.0	267	57	29	23	0.1	0.4	60							
8/05/2017	45	0.0	0.0	0.0	45	1.0	0.0	1.2	42	0.0	0.0	0.0	308	0.0	3.6	0.2	0.1	0.0	0.9	0.0	0.0	0.4	0.0	0.4	0.4	6.2		0.1	5.0	321	58	33	22	0.1	0.4	31	0.0						
8/08/2017	45		0.0		45	1.0		1.0	35				306		6.6	0.2			0.8			0.5	0.0	0.5	0.5	6.2		0.1	5.0	331	57	30	21	0.1	0.8	24		1.3					
7/11/2017	45		0.0		45	1.0		1.1	42				312		5.1	0.2			0.8			0.5	0.0	0.5	0.7	5.9		0.1	5.0	355	59	31	21	0.2	0.6	24		1.5					
13/02/2018	45		0.0		45	1.0		1.3	42				313		4.0	0.2			0.8			0.7	0.0	0.7	0.9	6.4		0.1	5.0	123	60	34	25	0.2	1.6	21		2.2					
8/05/2018	47	0.4	0.0	0.0	47	1.5	0.0	1.0	1050	0.0	0.0	0.0	306	0.0	5.2	0.2	0.7	0.0	0.7	0.0	0.0	0.6	0.0	0.6	0.8	6.5		0.1	1.1	307	60	33	23	0.2	0.6	20	0.0	1.4					

14/08/2018	45		0.0		45	3.3		1.2	45				303		7.8	0.1			0.8			0.7	0.0	0.7	1.0	6.7		0.2	1.2	293	63	35	20	0.3	2.6	12		2.0
13/11/2018	44		0.0		44	6.9		1.0	42				300		6.3	0.2			0.7			0.6	0.0	0.6	0.7	6.5		0.1	1.0	79	60	35	21	0.1	0.5	19		1.6
12/02/2019	44		0.0		44	1.0		1.1	41				308		4.9	0.2			0.8			0.6	0.0	0.6	0.7	6.4		0.1	1.2	360	63	37	24	0.1	0.8	16		2.6
14/05/2019	45	0.7	0.0	0.0	45	1.8	0.0	1.2	42	0.0	0.0	0.0	307	0.0	6.4	0.2	1.2	0.0	0.9	0.0	0.0	0.7	0.0	0.7	1.0	6.7		0.2	1.4	211	65	38	23	0.3	1.0	10	0.1	1.4
13/08/2019	43		0.0		43	1.5		1.2	38				304		7.9	0.2			0.8			0.6	0.0	0.6	0.9	6.7		0.2	1.1	307	61	36	21	0.3	4.1	13		1.6
12/11/2019	45		0.0		45	1.2		1.2	42				320		6.3	0.2			0.9			0.6	0.0	0.6	0.9	6.6		0.1	1.2	314	62	36	22	0.3	1.4	14		2.9
25/02/2020	43		0.0		43	1.0		1.0	42				311		4.6	0.1			0.8			0.4	0.0	0.4	0.5	6.2	0.0	0.1	1.0	166	57	33	25	0.1	0.7	29		0.8
12/05/2020	44	0.3	0.0	0.0	44	1.0	0.0	1.1	44	0.0	0.0	0.0	309	0.0	4.7	0.2	0.8	0.0	0.8	0.0	0.0	0.4	0.0	0.4	0.5	6.3	0.0	0.1	1.0	128	57	35	22	0.1	0.8	25	0.0	1.4
11/08/2020	45		0.0		45	1.0		1.1	40				299		7.9	0.2			0.8			0.5	0.0	0.5	0.6	6.5	0.0	0.1	1.1	258	59	33	21	0.1	0.6	11		0.8
10/11/2020	44		0.0		44	1.0		1.1	43				309		6.1	0.2			0.8			0.5	0.0	0.5	0.7	6.5	0.0	0.1	1.2	265	59	35	22	0.1	0.8	10		1.5
9/02/2021	48		0.0		48	1.0		0.9	39				305		5.6	0.2			0.7			0.4	0.0	0.4	0.5	6.0	0.0	0.1	1.0	112	58	33	24	0.1	0.7	20		1.0
11/05/2021	43	0.1	0.0	0.0	43	1.0	0.0	1.1	42	0.0	0.0	0.0	294	0.0	7.7	0.2	0.2	0.0	0.9	0.0	0.0	0.4	0.0	0.4	0.5	6.5	0.0	0.1	1.2	138	57	35	23	0.1	0.7	14	0.0	0.5
10/08/2021	45		0.0		45	1.0		1.0	40				293		8.0	0.1			0.8			0.4	0.0	0.4	0.5	6.6	0.0	0.2	1.3	283	54	31	19	0.1	0.7	10		1.2
8/11/2021	46		0.0		46	1.0		1.2	42				302		6.6	0.2			0.9			0.4	0.0	0.4	0.5	6.5	0.0	0.1	1.2	82	57	31	22	0.1	1.2	15		1.2
8/02/2022	46		0.0		46	1.0		1.1	38				302		6.0	0.2			0.9			0.5	0.0	0.5	0.5	6.6	0.0	0.1	1.2	268	57	31	23	<0.05	0.6	15		0.5
10/05/2022	43	0.3	0.0	0.0	43	1.0	0.0	1.0	38	0.0	0.0	0.0	292	0.0	7.7	0.2	0.6	0.0	0.8	0.0	0.0	0.4	0.0	0.4	0.5	6.7	0.0	0.1	1.0	66	54	31	21	0.2	0.7	10	0.0	0.2
9/08/2022	42		0.0		42	1.0		1.0	38				294		8.2	0.2			0.9			0.4	0.0	0.4	0.5	6.7	0.0	0.1	1.2	204	56	32	20	0.1	0.6	10		0.7
8/11/2022	44		0.0		44	3.0		1.1	43				304		6.7	0.2			0.9			0.5	0.0	0.5	0.5	6.6	0.0	0.1	1.3	100	54	31	21	<0.05	0.7	14		0.7
2022 Min	42	0.3	0.0	0.0	42	1.0	0.0	1.0	38	0.0	0.0	0.0	292	0.0	6.0	0.2	0.6	0.0	0.8	0.0	0.0	0.4	0.0	0.4	0.5	6.6	0.0	0.1	1.0	66	54	31	20	0.1	0.6	10	0.0	0.2
2022 Max	46	0.3	0.0	0.0	46	3.0	0.0	1.1	43	0.0	0.0	0.0	304	0.0	8.2	0.2	0.6	0.0	0.9	0.0	0.0	0.5	0.0	0.5	0.5	6.7	0.0	0.1	1.3	268	57	32	23	0.2	0.7	15	0.0	0.7
2022 Mean	44	0.3	0.0	0.0	44	1.5	0.0	1.1	39	0.0	0.0	0.0	298	0.0	7.2	0.2	0.6	0.0	0.9	0.0	0.0	0.4	0.0	0.4	0.5	6.7	0.0	0.1	1.2	159	55	31	21	0.1	0.7	12	0.0	0.5
Long-term Average	44	0.2	0.0	0.0	38	1.3	0.0	1.1	63	0.0	0.0	0.0	311	0.0	4.9	0.2	2.0	0.0	0.8	0.0	0.0	0.5	0.0	0.5	0.6	6.5	0.0	0.1	3.5	152	59	32	22	0.1	0.9	29	0.0	1.3

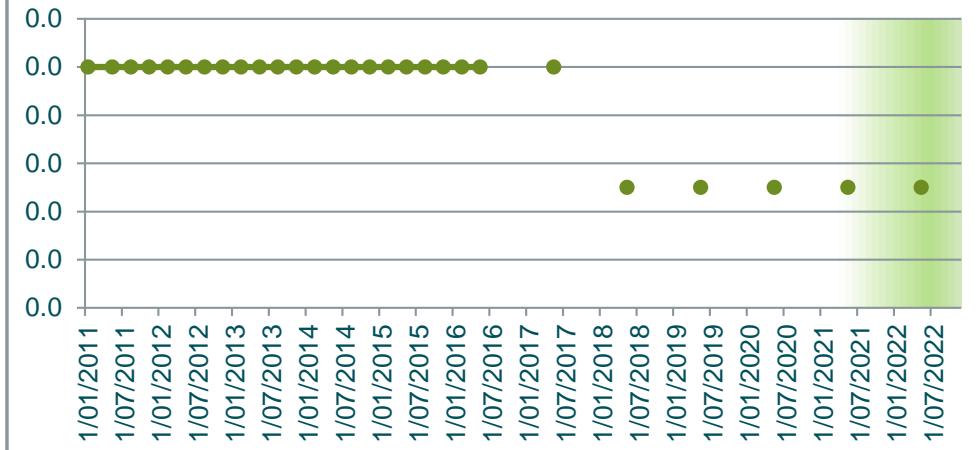
**Chromium (Total)
mg/L**



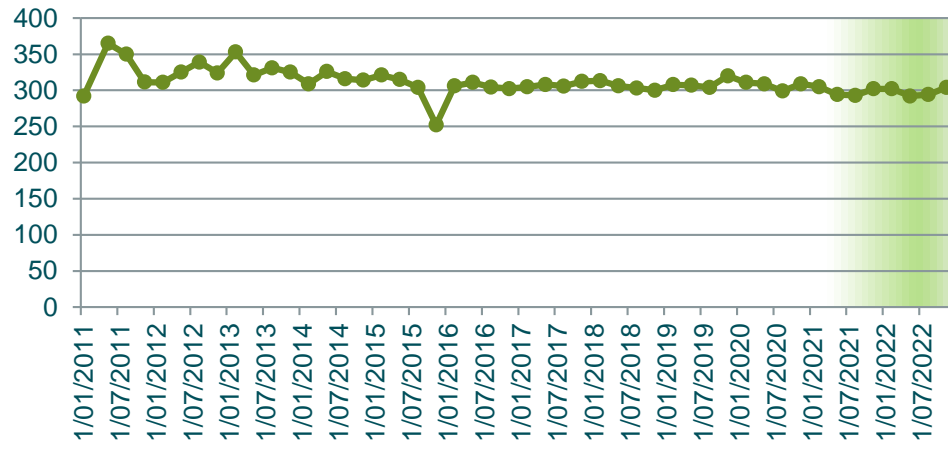
**Chromium 3
mg/L**



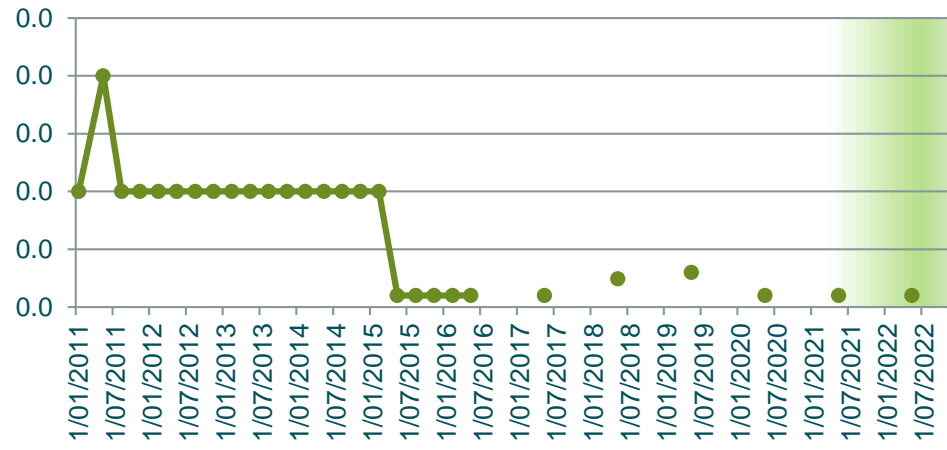
**Chromium 6
mg/L**



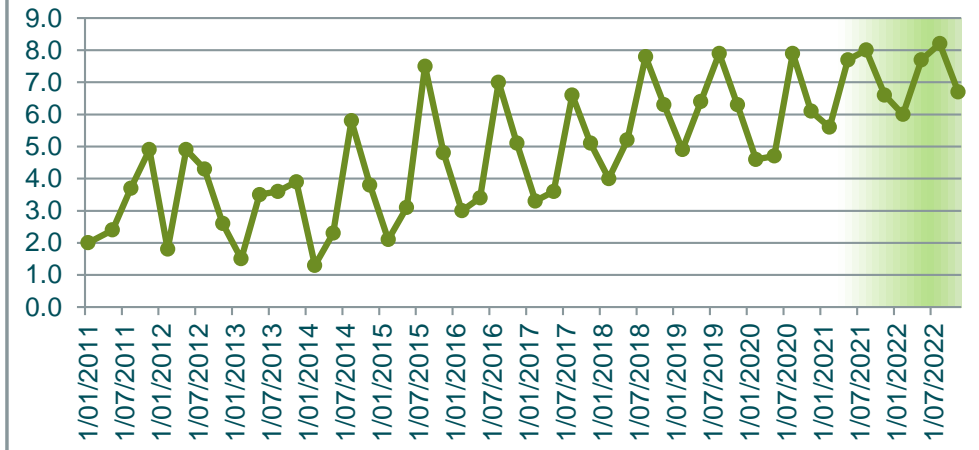
**Conductivity
µScm-1**



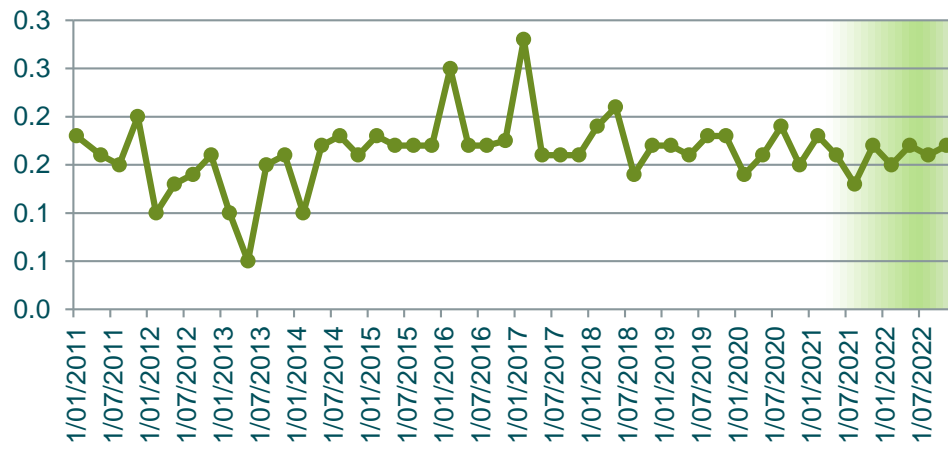
**Copper (Total)
mg/L**



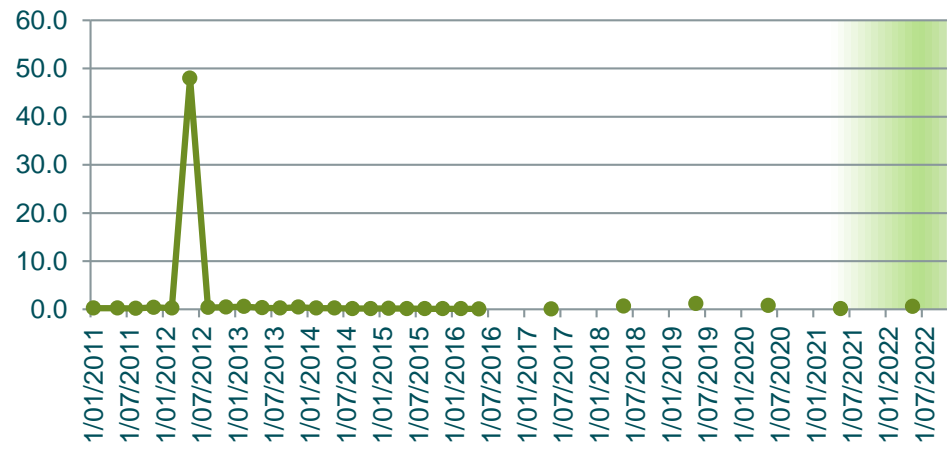
**DO (Membrane Electrode)
mg/L**



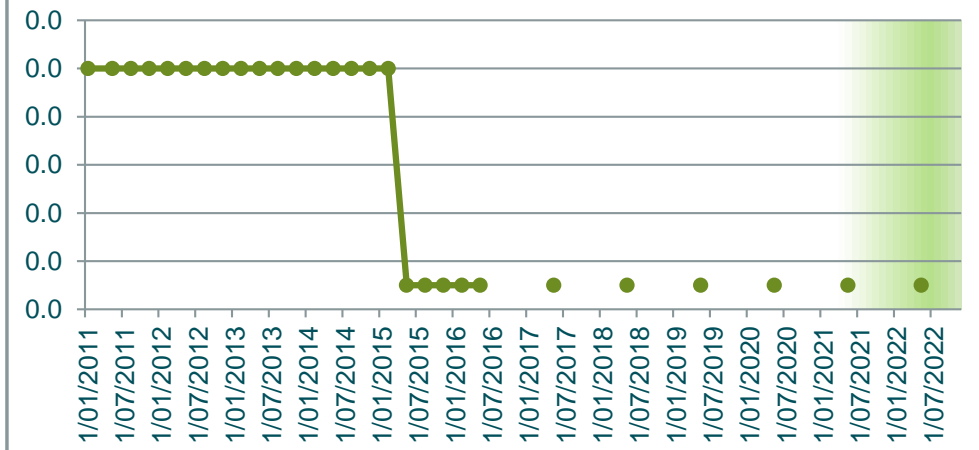
**Flouride
mg/L**



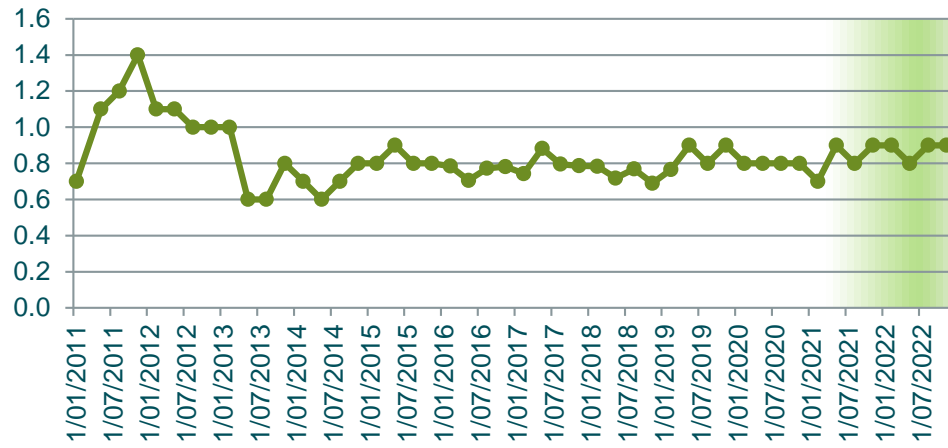
**Iron Total
mg/L**



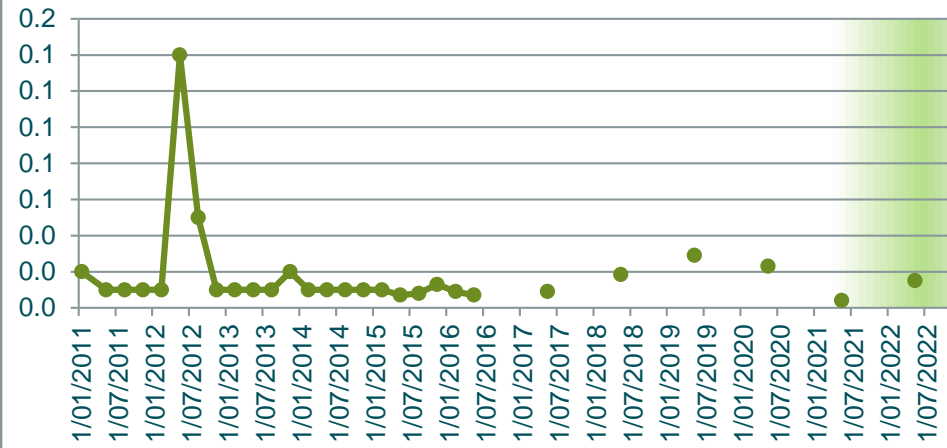
**Lead (Total)
mg/L**



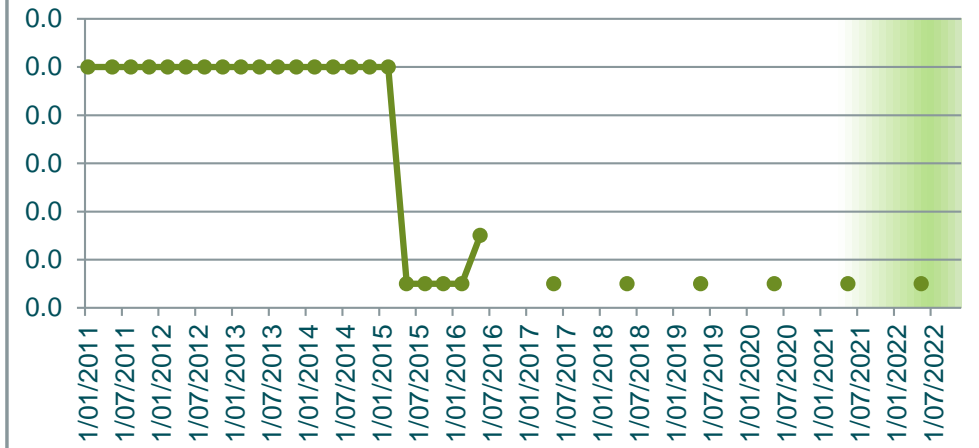
Magnesium (Total) mg/L



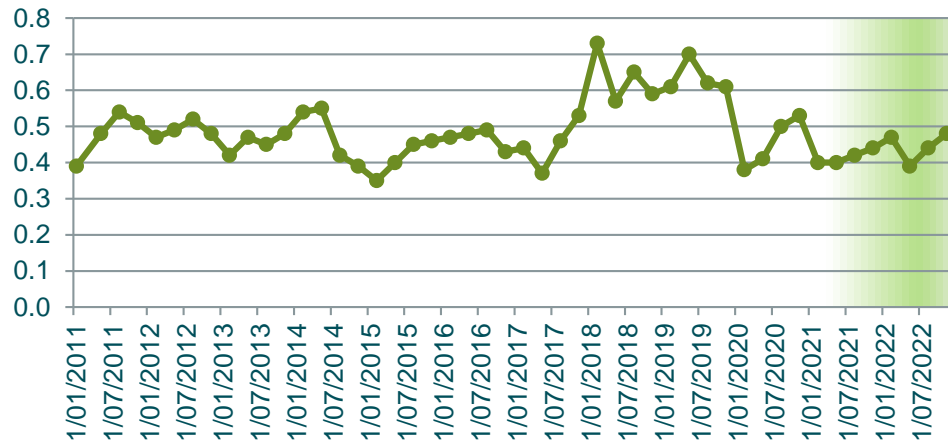
Manganese Total mg/L



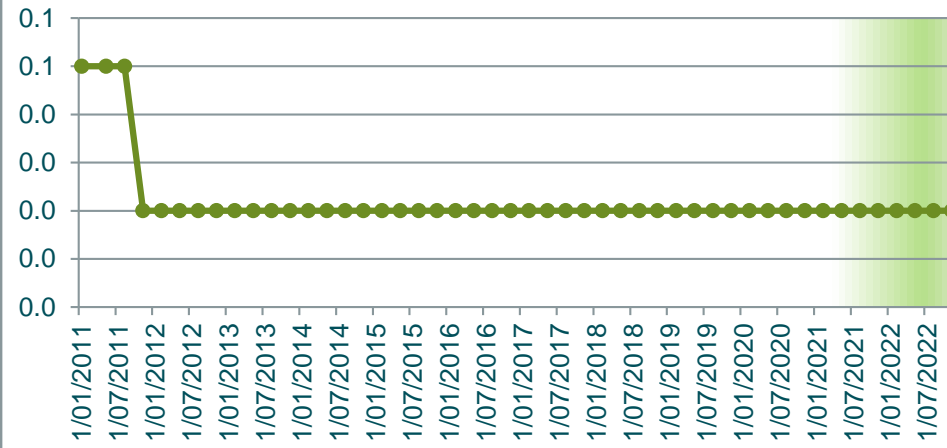
Nickel (Total) mg/L



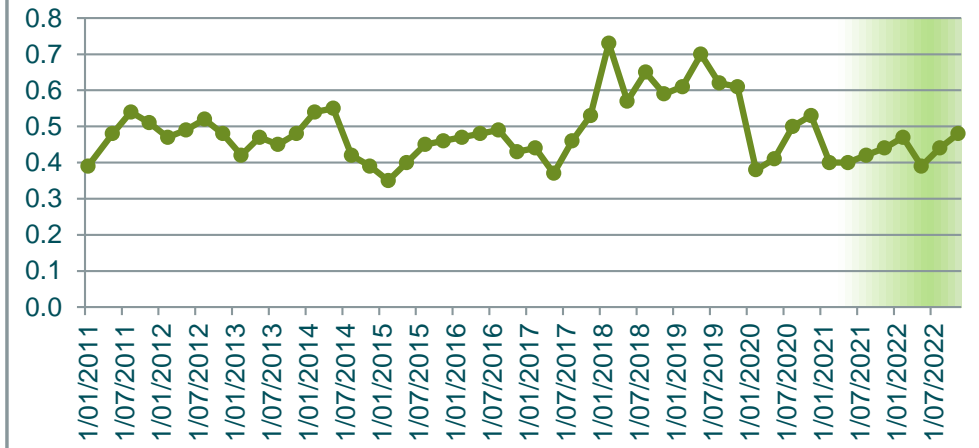
Nitrate N mg/L



Nitrite N mg/L



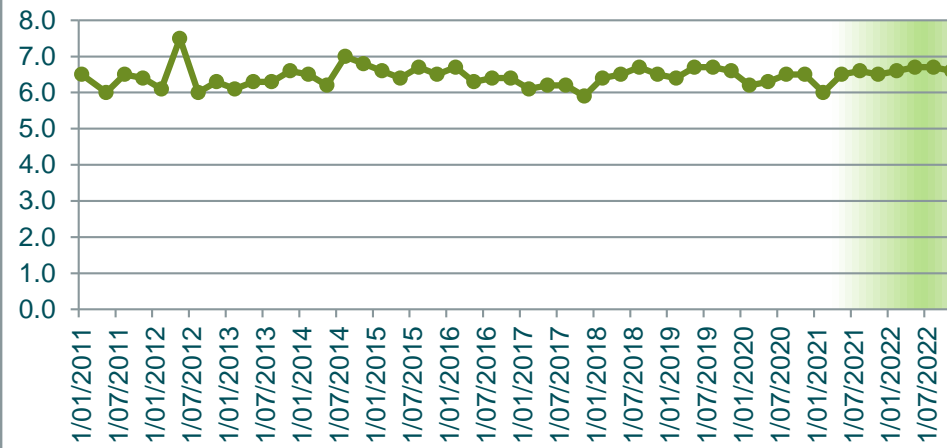
Nitrogen Oxidised mg/L



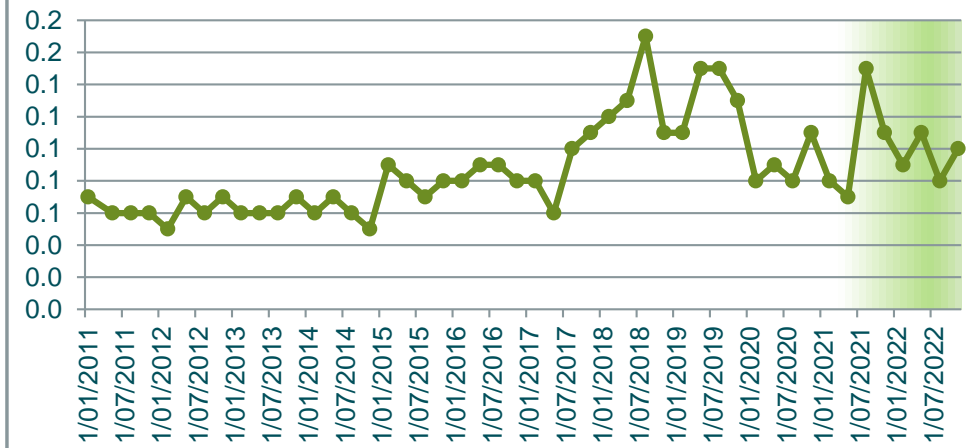
Nitrogen Total mg/L



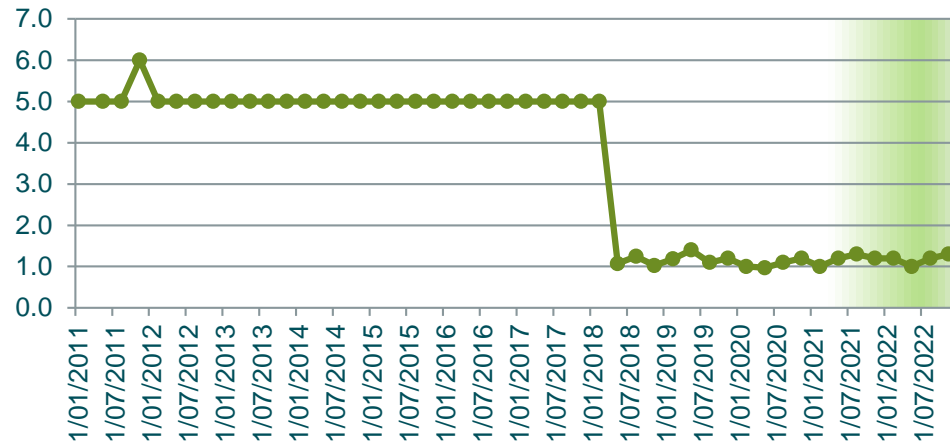
pH pH units



Phosphorus Total mg/L



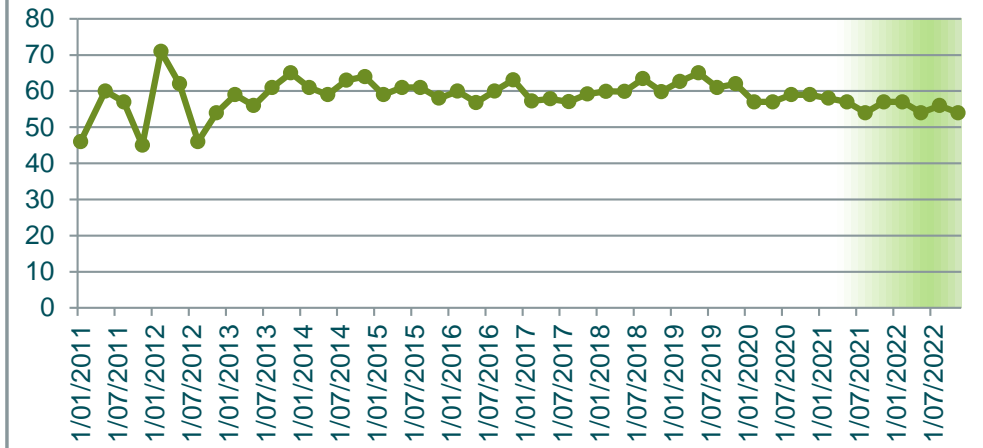
**Potassium Total
mg/L**



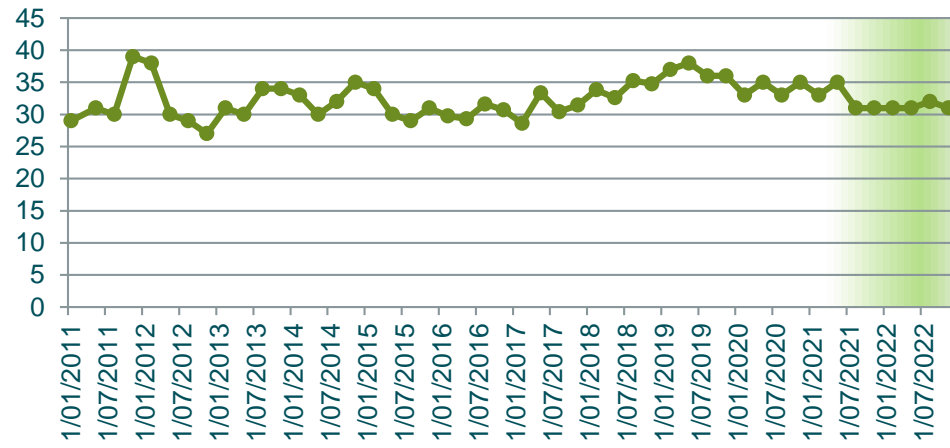
**Redox Potential
mV**



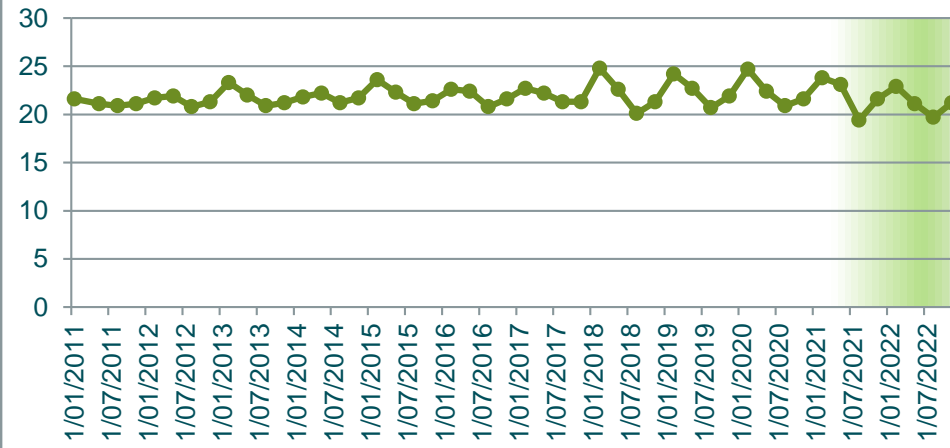
**Sodium (Total)
mg/L**



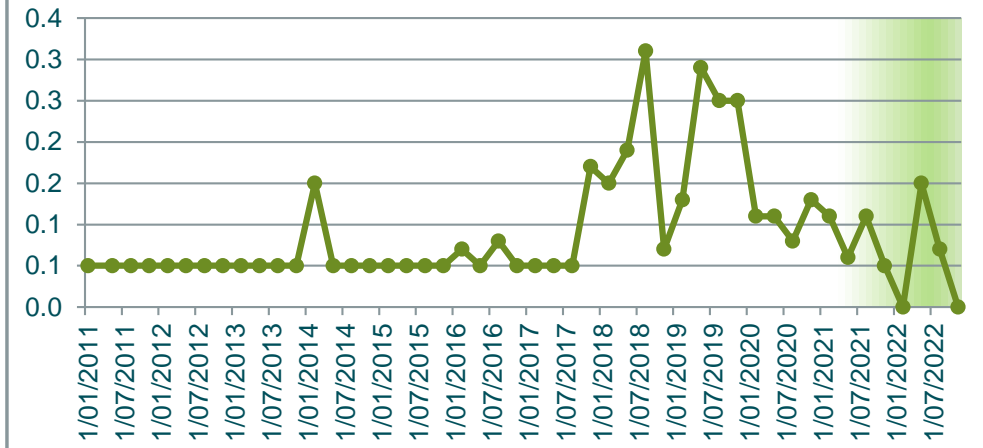
**Sulphate
mg/L**



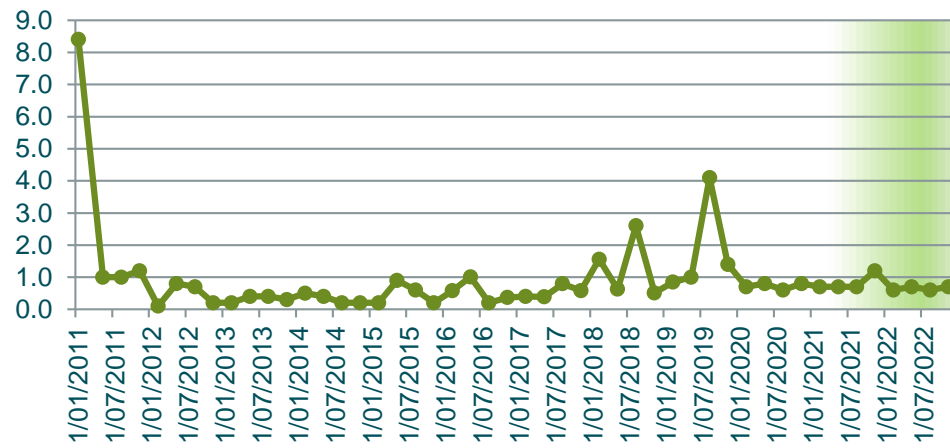
**Temperature
C**



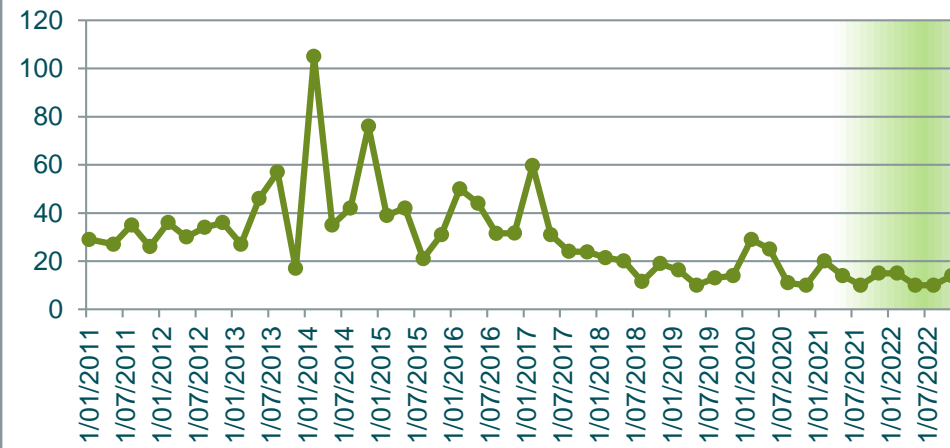
**TKN
mg/L**



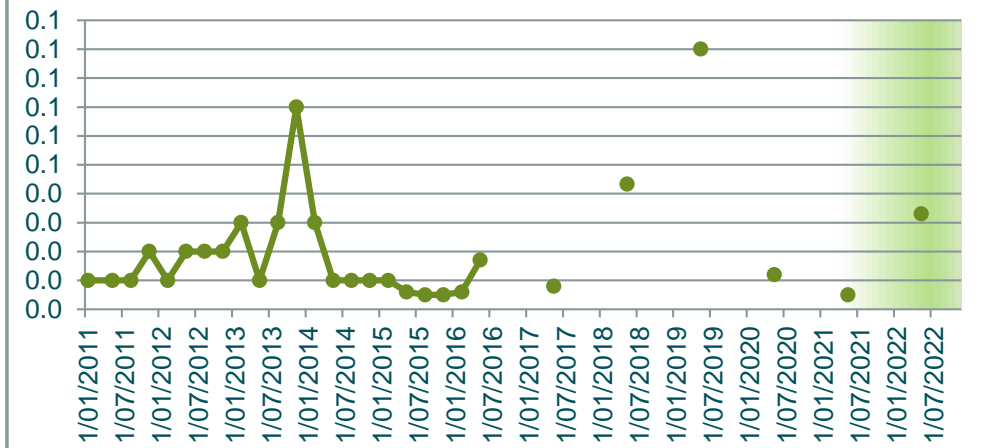
**TOC
mg/L**



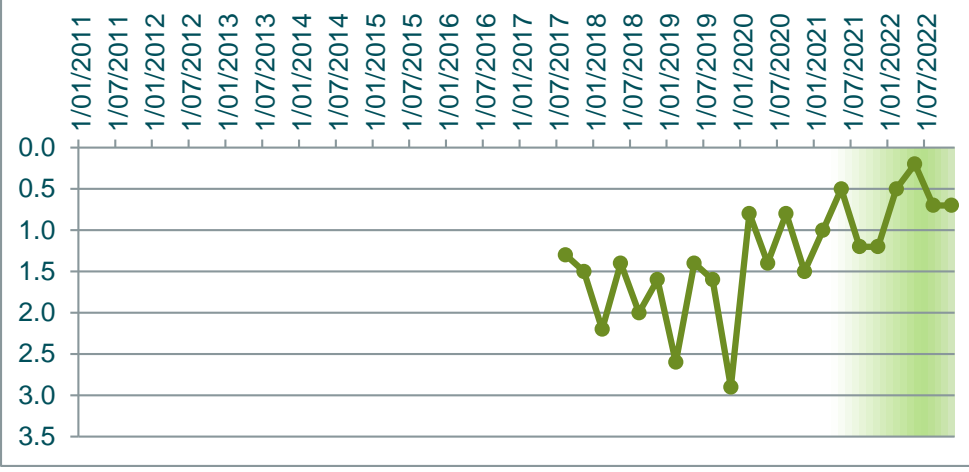
**Total Acidity
mg/L CaCO3**



**Zinc (Total)
mg/L**



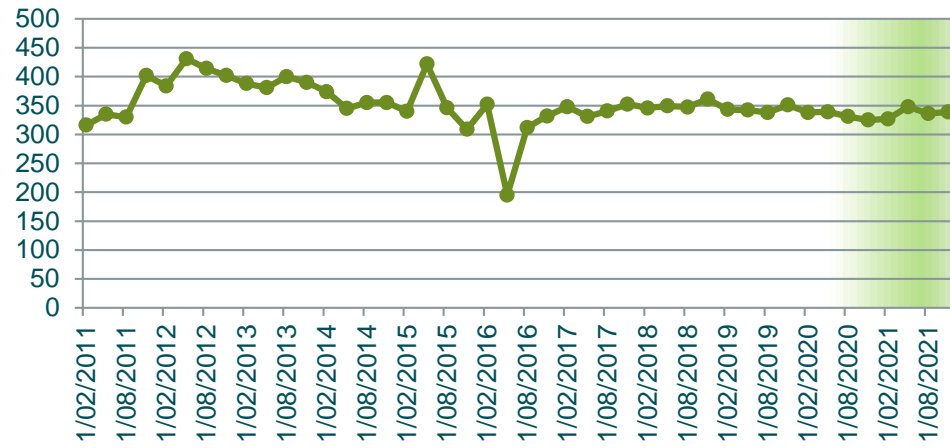
Depth to Groundwater m



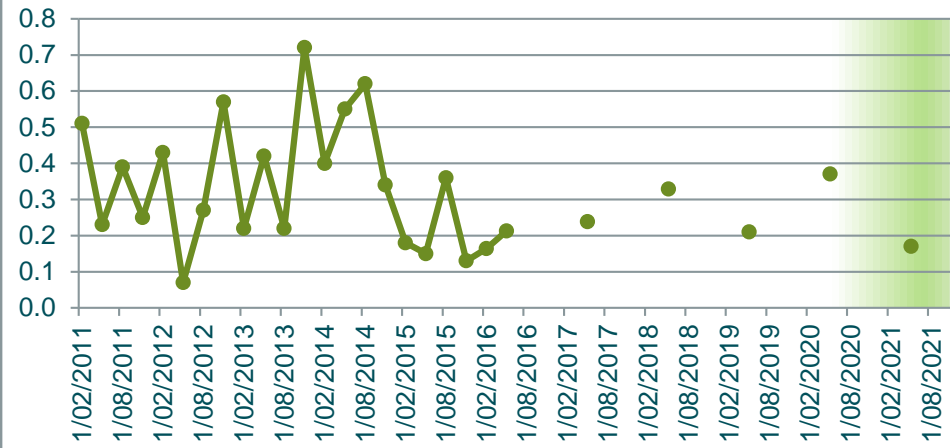
GW20	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L	Depth to Groundwater m
1/02/2011	316	0.5	0.4	0.0	193	2	0.0	86	100	0.0	0.0	0.0	1045	0.0	2.4	0.1	1.0	0.0	13	0.6	0.0	0.1	0.1	0.1	0.6	7.6		0.1	5.0	-95	74	91	22	0.6	6.8	89	0.0	
11/05/2011	335	0.2	0.4	0.0	204	2	0.0	103	100	0.0	0.0	0.0	1201	0.0	2.6	0.1	0.9	0.0	18	0.7	0.0	0.1	0.1	0.1	0.7	7.2		0.1	10.0	52	99	102	20	0.7	3.6	23	0.0	
10/08/2011	330	0.4	0.5	0.0	200	5	0.0	94	125	0.0	0.0	0.0	1123	0.0	2.6	0.1	1.0	0.0	17	0.6	0.0	0.1	0.1	0.1	0.9	7.2		0.1	6.0	48	110	92	20	0.9	8.1	22	0.0	
9/11/2011	402	0.3	0.1	0.0	245	1	0.0	152	101	0.0	0.0	0.0	1092	0.0	0.9	0.2	1.1	0.0	18	1.1	0.0	0.0	0.0	0.0	0.2	7.0		0.0	34.0	-10	154	102	22	0.1	5.9	42	0.0	
7/02/2012	384	0.4	0.1	0.0	234	1	0.0	95	70	0.0	0.0	0.0	1038	0.0	1.6	0.2	1.1	0.0	14	0.9	0.0	0.0	0.0	0.1	0.1	7.0		0.0	5.0	59	147	75	22	0.1	4.7	45	0.0	
9/05/2012	431	0.1	0.1	0.0	263	1	0.0	79	60	0.0	0.0	0.0	1040	0.0	3.2	0.2	0.8	0.0	12	0.9	0.0	0.0	0.0	0.1	0.1	6.8		0.0	5.0	227	100	48	21	0.1	1.9	34	0.0	
7/08/2012	414	0.3	0.1	0.0	252	2	0.0	76	62	0.0	0.0	0.0	981	0.0	2.3	0.3	1.1	0.0	11	0.9	0.0	0.0	0.0	0.0	0.2	7.0		0.0	5.0	-83	95	36	20	0.2	4.6	38	0.1	
14/11/2012	402	0.6	0.1	0.0	245	1	0.0	79	64	0.0	0.0	0.0	934	0.0	3.2	0.2	1.5	0.0	13	0.8	0.0	0.0	0.0	0.0	0.3	7.1		0.0	5.0	-109	95	24	21	0.3	3.7	33	0.1	
14/02/2013	388	0.2	0.1	0.0	237	1	0.0	84	60	0.0	0.0	0.0	919	0.0	3.3	0.2	1.4	0.0	12	0.9	0.0	0.0	0.0	0.0	0.2	7.0		0.0	5.0	-60	107	22	21	0.1	3.4	28	0.0	
15/05/2013	381	0.4	0.1	0.0	232	2	0.0	79	63	0.0	0.0	0.0	902	0.0	2.6	0.3	1.7	0.0	11	0.9	0.0	0.1	0.0	0.1	0.6	6.9		0.1	5.0	-81	96	17	21	0.5	3.6	66	0.1	
7/08/2013	400	0.2	0.1	0.0	244	1	0.0	86	62	0.0	0.0	0.0	884	0.0	3.1	0.3	1.4	0.0	12	1.0	0.0	0.1	0.0	0.1	0.3	7.1		0.0	5.0	-89	102	18	20	0.3	3.2	70	0.1	
13/11/2013	390	0.7	0.1	0.0	238	2	0.0	88	62	0.0	0.0	0.0	924	0.0	2.9	0.4	2.2	0.0	13	1.1	0.0	0.0	0.0	0.0	0.4	7.5		0.1	5.0	-72	108	14	21	0.3	3.2	34	0.1	
12/02/2014	374	0.4	0.1	0.0	228	2	0.0	78	66	0.0	0.0	0.0	825	0.0	3.2	0.4	1.7	0.0	11	1.0	0.0	0.1	0.0	0.1	0.5	7.0		0.0	5.0	-73	92	13	21	0.5	3.0	85	0.1	
14/05/2014	345	0.6	0.3	0.0	210	4	0.0	76	67	0.0	0.0	0.0	882	0.0	2.6	0.4	2.1	0.0	11	0.9	0.0	0.1	0.0	0.1	0.7	7.0		0.1	5.0	-48	87	13	20	0.5	3.0	40	0.1	
13/08/2014	355	0.6	0.2	0.0	217	2	0.0	89	75	0.0	0.0	0.0	899	0.0	3.3	0.4	1.8	0.0	13	1.0	0.0	0.1	0.0	0.1	0.5	7.2		0.1	5.0	-34	97	14	20	0.4	2.7	75	0.1	
11/11/2014	355	0.3	0.1	0.0	217	2	0.0	87	81	0.0	0.0	0.0	887	0.0	3.1	0.4	1.7	0.0	13	0.9	0.0	0.0	0.0	0.0	0.4	7.2		0.1	5.0	-68	92	12	21	0.3	2.2	44	0.0	
10/02/2015	340	0.2	0.1	0.0	207	1	0.0	74	72	0.0	0.0	0.0	886	0.0	1.3	0.4	1.5	0.0	11	1.0	0.0	0.1	0.0	0.1	0.3	7.1		0.0	5.0	-38	78	9	22	0.2	2.1	49	0.0	
12/05/2015	422	0.2	0.0	0.0	257	1	0.0	92	77	0.0	0.0	0.0	869	0.0	1.2	0.4	1.3	0.0	13	0.9	0.0	0.0	0.0	0.0	0.1	6.8		0.0	5.0	-20	85	11	21	0.1	1.7	50	0.0	
12/08/2015	346	0.4	0.0	0.0	346	1	0.0	92	74	0.0	0.0	0.0	875	0.0	1.9	0.5	1.6	0.0	13	0.9	0.0	0.0	0.0	0.0	0.1	7.1		0.1	5.0	-28	80	10	20	0.1	1.9	40	0.1	
11/11/2015	309	0.1	0.1	0.0	319	1	0.0	82	73	0.0	0.0	0.0	838	0.0	1.8	0.5	0.9	0.0	12	0.7	0.0	0.0	0.0	0.0	0.2	7.1		0.0	5.0	4	75	10	21	0.2	1.5	42	0.0	
9/02/2016	352	0.2	0.0	0.0	352	1	0.0	88	78	0.0	0.0	0.0	869	0.0	1.1	0.4	1.3	0.0	12	0.9	0.0	0.0	0.0	0.0	0.1	7.1		0.0	5.0	-43	79	10	21	0.1	1.5	55	0.0	
10/05/2016	195	0.2	0.1	0.0	195	1	0.0	52	38	0.0	0.0	0.0	521	0.0	2.3	0.3	0.8	0.0	7	0.5	0.0	0.1	0.0	0.1	0.3	7.2		0.1	5.0	34	44	6	21	0.2	1.0	22	0.0	
10/08/2016	312		0.1		312	3		77	65				791		1.9	0.4			11			0.0	0.0	0.0	0.3	7.0		0.1	5.0	-40	71	11	21	0.2	1.3	40		
8/11/2016	332		0.1		332	1		88	76				844		1.7	0.4			12			0.1	0.0	0.1	0.3	7.1		0.0	5.0	40	80	13	22	0.2	2.2	49		
8/02/2017	348		0.1		348	1		86	75				883		1.3	0.4			13			0.0	0.0	0.0	0.2	7.0		0.0	5.0	83	78	11	23	0.2	2.1	68		
9/05/2017	331	0.2	0.0	0.0	331	1	0.0	90	85	0.0	0.0	0.0	862	0.0	1.0	0.4	1.4	0.0	13	0.7	0.0	0.0	0.0	0.0	0.1	7.0		0.0	5.0	-20	77	14	20	0.1	1.6	53	0.0	
9/08/2017	340		0.2		340	2		86	90				867		0.8	0.5			12			0.0	0.0	0.0	0.3	6.9		0.0	5.0	-27	76	5	20	0.3	2.3	49		15.0
8/11/2017	352		0.0		352	1		91	72				884		1.2	0.5			13			0.0	0.0	0.0	0.1	6.8		0.0	5.0	-27	76	6	20	0.1	1.6	54		16.0
14/02/2018	346		0.1		346	1		85	70				868		3.2	0.5			12			0.0	0.0	0.0	0.2	7.2		0.0	5.0	-63	75	5	25	0.2	2.2	18		16.2
9/05/2018	349	0.3	0.2	0.0	349	2	0.0	85	71	0.0	0.0	0.0	856	0.0	3.1	0.5	1.5	0.0	12	0.9	0.0	0.0	0.0	0.0	0.5	7.2		0.1	2.2	-67	77	4	21	0.5	2.1	25	0.0	15.3

15/08/2018	347		0.1		347	4		93	63				854		3.2	0.5			13			0.1	0.0	0.1	0.5	7.2		0.1	2.3	-22	82	5	21	0.4	0.2	20		15.9
14/11/2018	361		0.1		361	2		88	63				833		3.3	0.6			12			0.0	0.0	0.0	0.3	7.3		0.1	2.0	-38	75	5	21	0.3	2.1	32		16.6
13/02/2019	343		0.1		343	1		94	74				856		2.7	0.5			13			0.0	0.0	0.0	0.3	7.1		0.1	2.1	-80	78	5	22	0.3	2.6	27		15.7
15/05/2019	342	0.2	0.1	0.0	342	2	0.0	92	67	0.0	0.0	0.0	834	0.0	2.9	0.5	2.1	0.0	13	0.7	0.0	0.0	0.0	0.0	0.2	7.2		0.1	2.0	-77	80	4	21	0.2	1.8	27	0.0	16.0
14/08/2019	338		0.1		338	2		90	60				817		3.0	0.6			12			0.0	0.0	0.0	0.3	7.2		0.1	2.1	48	74	5	20	0.2	2.2	22		16.0
13/11/2019	351		0.1		351	3		88	55				836		3.0	0.6			12			0.0	0.0	0.0	0.4	7.1		0.1	2.0	-42	76	4	21	0.3	2.5	27		16.0
26/02/2020	338		0.1		338	2		81	58				800		3.0	0.5			11			0.0	0.0	0.0	0.3	7.2	0.0	0.1	1.8	-75	68	3	21	0.3	1.9	25		16.0
13/05/2020	339	0.4	0.1	0.0	339	2	0.0	81	50	0.0	0.0	0.0	797	0.0	2.9	0.6	2.3	0.0	11	0.7	0.0	0.0	0.0	0.0	0.3	7.1	0.0	0.0	1.8	-65	67	4	20	0.2	1.9	28	0.0	15.2
12/08/2020	331		0.0		331	3		85	50				760		3.0	0.6			12			0.0	0.0	0.0	0.2	7.1	0.0	0.0	1.8	-57	67	5	20	0.1	1.7	25		15.4
11/11/2020	325		0.1		325	3		79	51				769		3.2	0.6			11			0.0	0.0	0.0	0.2	7.1	0.0	0.1	1.8	-65	65	6	21	0.2	2.5	20		15.8
10/02/2021	327		0.0		327	1		81	48				770		2.8	0.6			11			0.0	0.0	0.0	0.1	6.9	0.0	0.0	1.7	-70	62	7	21	0.1	1.6	22		15.6
12/05/2021	348	0.2	2.0	0.0	348	76	0.0	84	30	0.0	0.0	0.0	780	0.0	2.3	0.6	2.0	0.0	12	0.7	0.0	0.0	0.0	0.0	4.9	7.0	0.0	0.6	2.5	-63	65	2	21	4.9	26.0	36	0.0	15.0
11/08/2021	336		2.3		336	14		82	52				779		2.6	0.6			12			0.0	0.0	0.0	3.1	7.0	0.0	0.4	2.3	-69	61	3	20	3.1	3.6	36		15.2
9/11/2021	339		1.6		339	8		83	58				784		2.5	0.6			12			0.0	0.0	0.0	2.1	7.0	0.0	0.3	2.2	-76	62	4	21	2.1	3.4	26		15.4
9/02/2022	343		1.3		343	4		81	50				780		2.7	0.6			12			0.0	0.0	0.0	1.4	7.0	0.0	0.2	2.0	-63	60	2	21	1.4	2.1	46		15.3
11/05/2022	346	1.1	1.2	0.0	346	7	0.0	83	60	0.0	0.0	0.0	799	0.0	3.5	0.7	2.2	0.0	12	0.7	0.0	0.0	0.0	0.0	1.9	7.1	0.0	0.1	2.3	-93	65	3	20	1.9	5.0	26	0.1	14.8
10/08/2022	332		0.9		332	4		83	56				789		2.6	0.7			12			0.0	0.0	0.0	1.2	7.1	0.0	0.2	2.1	-82	62	3	20	1.2	2.4	30		14.7
9/11/2022	334		0.9		334	4		83	70				801		3.0	0.7			12			0.0	0.0	<0.0 2	1.0	7.1	0.0	0.1	2.2	-79	62	2	21	1.0	2.1	25		15.0
2022 Min	332	1.1	0.9	0.0	332	4	0.0	81	50	0.0	0.0	0.0	780	0.0	2.6	0.6	2.2	0.0	12	0.7	0.0	0.0	0.0	0.0	1.0	7.0	0.0	0.1	2.0	-93	60	2	20	1.0	2.1	25	0.1	14.7
2022 Max	346	1.1	1.3	0.0	346	7	0.0	83	70	0.0	0.0	0.0	801	0.0	3.5	0.7	2.2	0.0	12	0.7	0.0	0.0	0.0	0.0	1.9	7.1	0.0	0.2	2.3	-63	65	3	21	1.9	5.0	46	0.1	15.3
2022 Mean	339	1.1	1.1	0.0	339	5	0.0	83	59	0.0	0.0	0.0	792	0.0	3.0	0.7	2.2	0.0	12	0.7	0.0	0.0	0.0	0.0	1.4	7.1	0.0	0.2	2.2	-79	62	2	21	1.4	2.9	32	0.1	15.0
Long-term Average	350	0.3	0.3	0.0	295	4	0.0	86	68	0.0	0.0	0.0	869	0.0	2.5	0.4	1.5	0.0	12	0.8	0.0	0.0	0.0	0.6	7.1	0.0	0.1	4.6	-36	82	19	21	0.6	3.2	39	0.0	15.6	

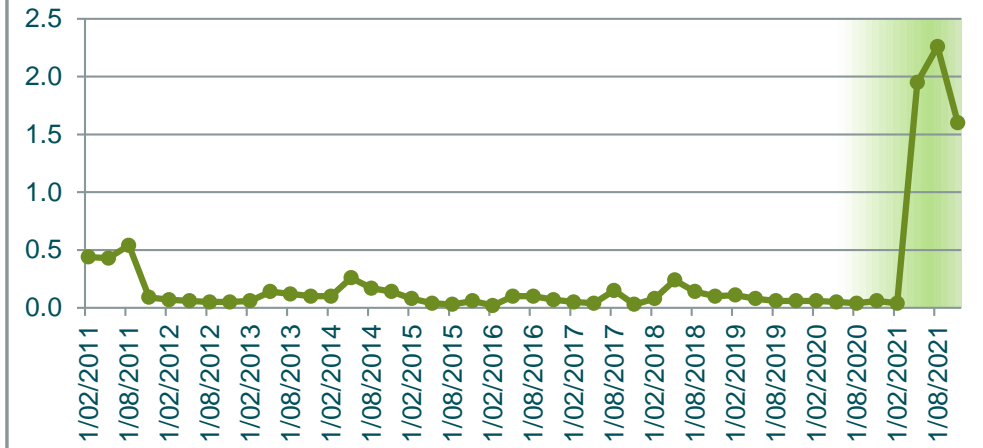
Alkalinity mg/L as CaCO3



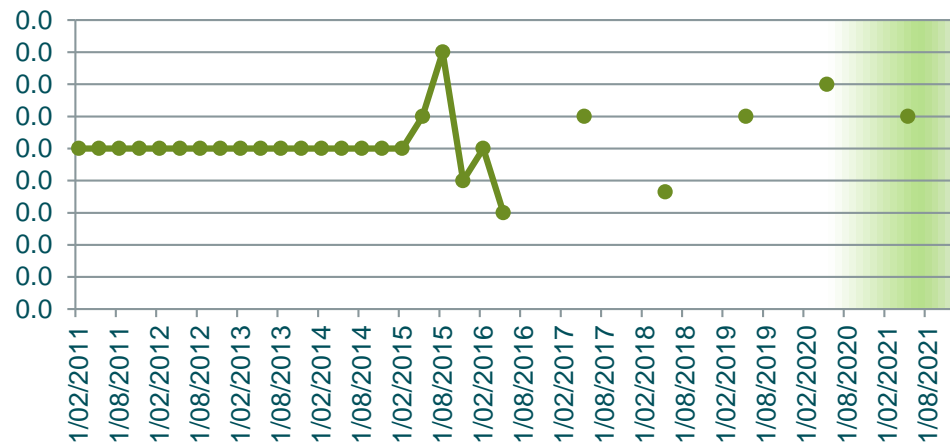
Aluminium (Total) mg/L



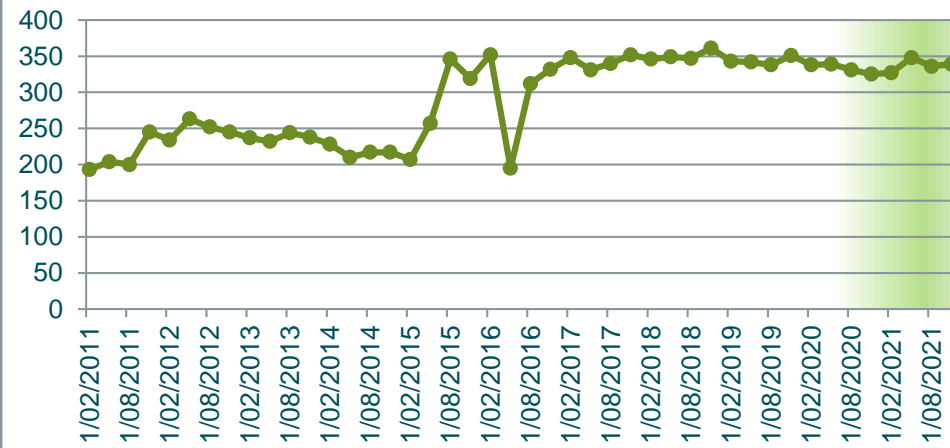
Ammonia mg/L



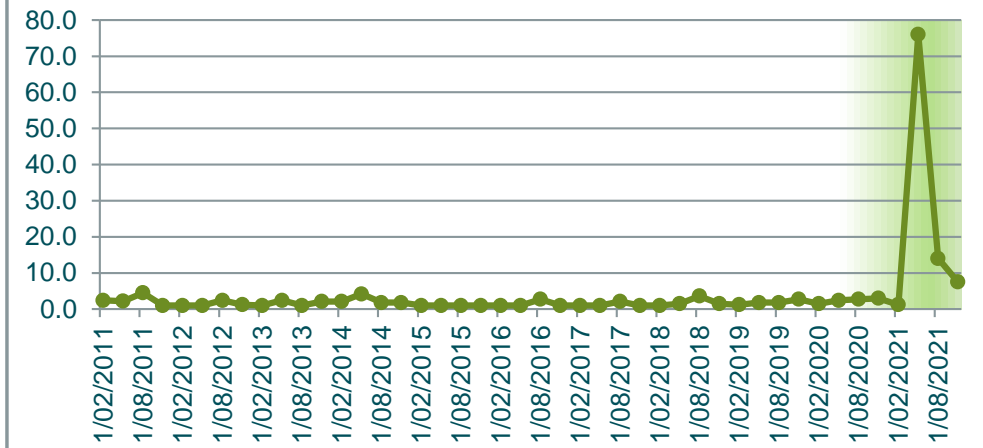
Arsenic (Total) mg/L



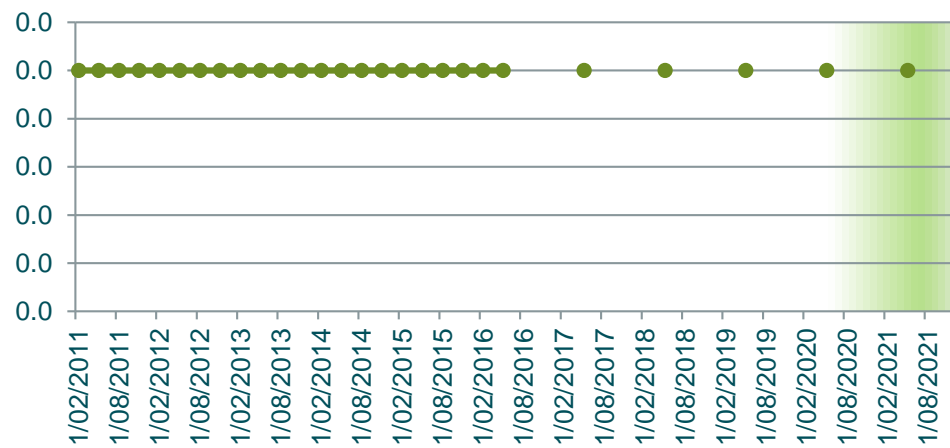
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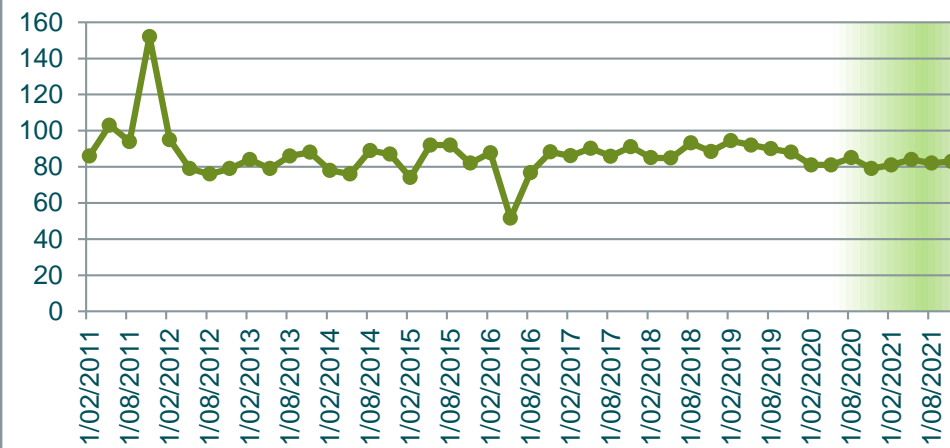
BOD5 mg/L



Cadmium (Total) mg/L



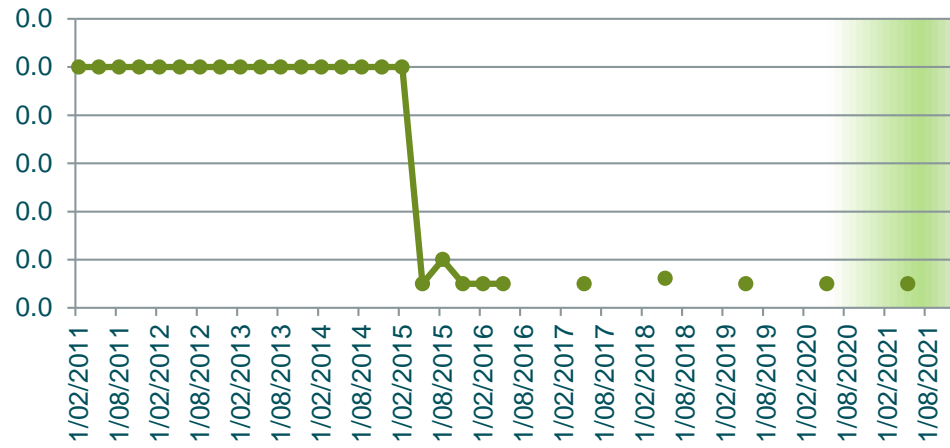
Calcium (Total) mg/L



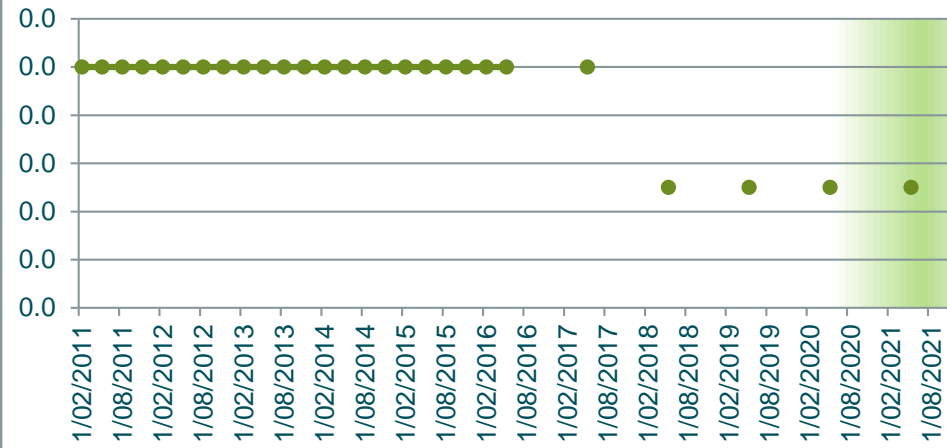
Chloride mg/L



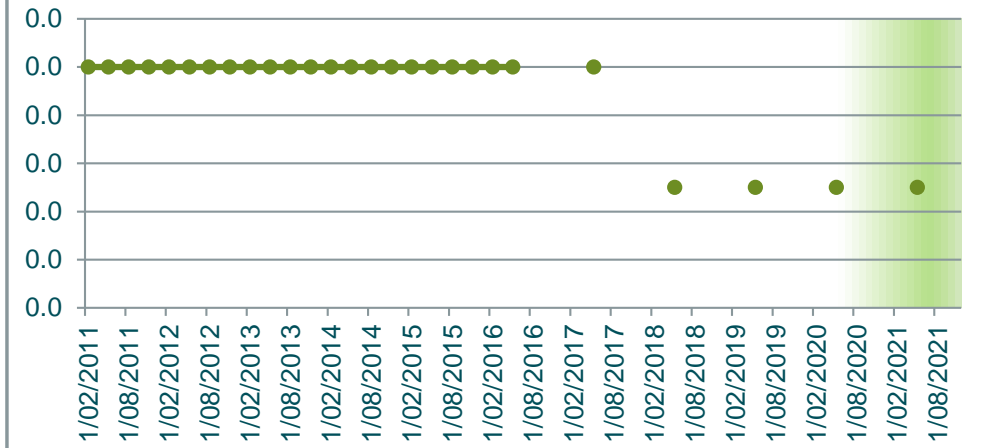
Chromium (Total) mg/L



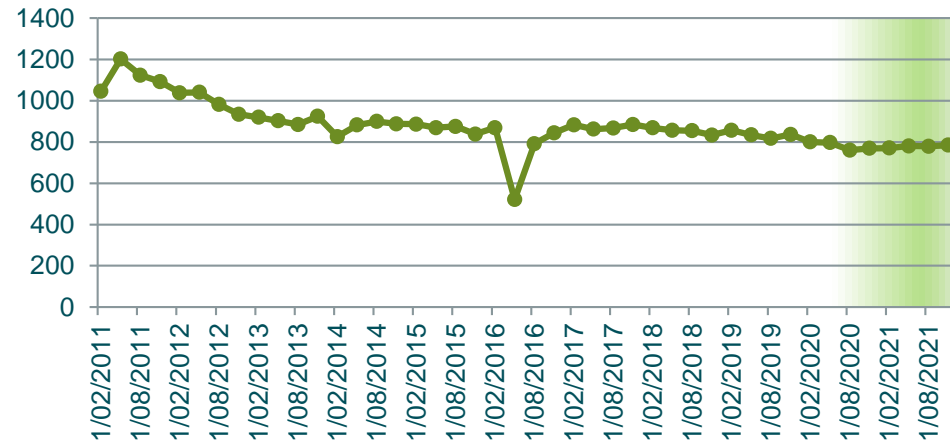
Chromium 3 mg/L



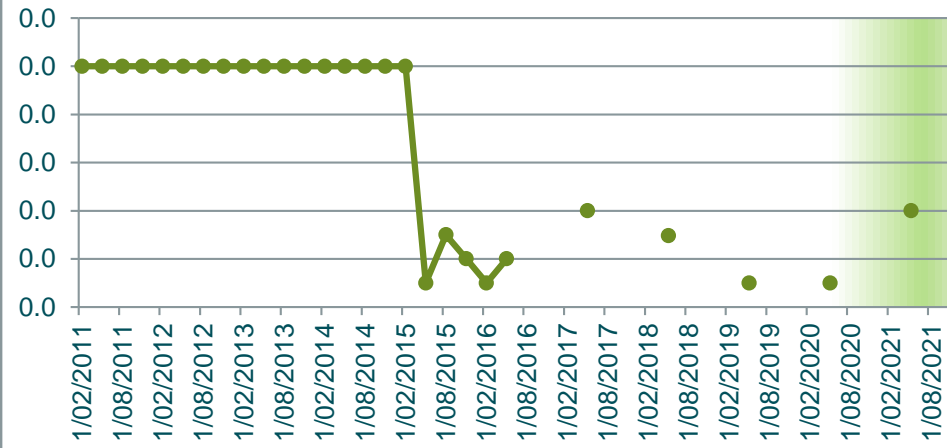
Chromium 6 mg/L



Conductivity µScm-1



Copper (Total) mg/L



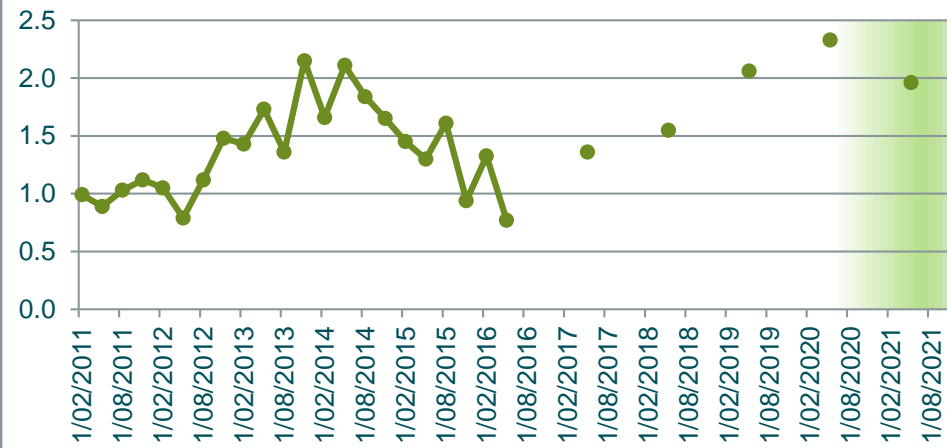
DO (Membrane Electrode) mg/L



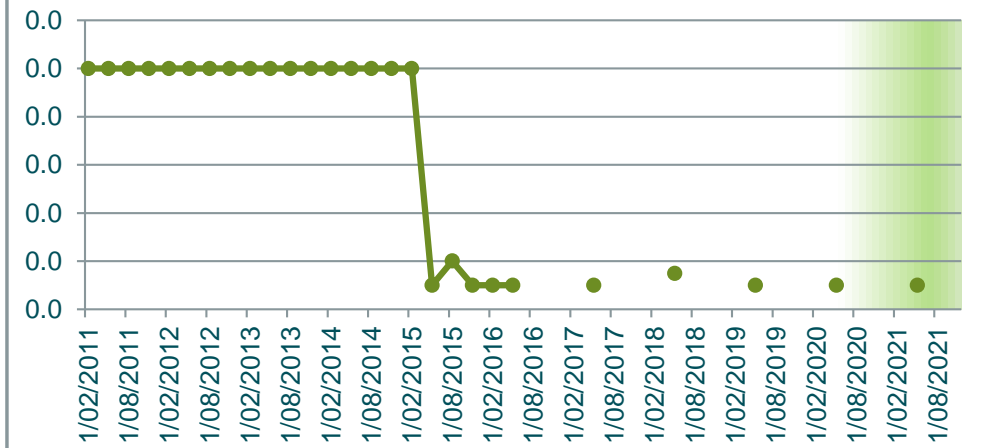
Flouride mg/L



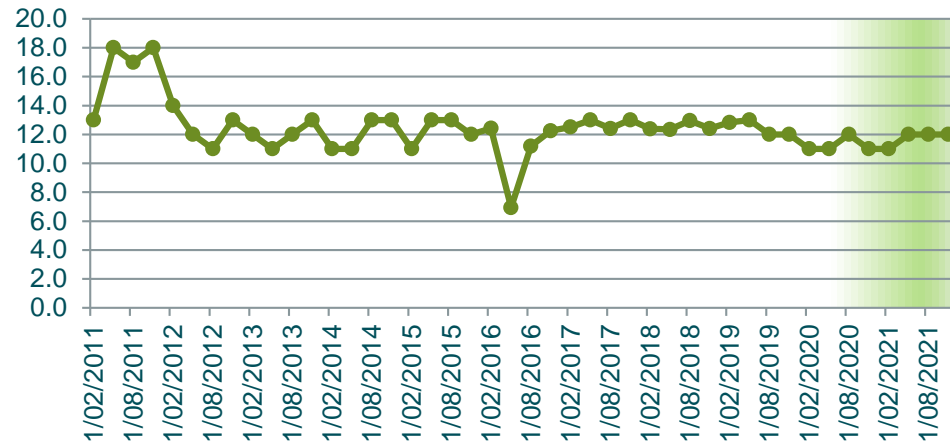
Iron Total mg/L



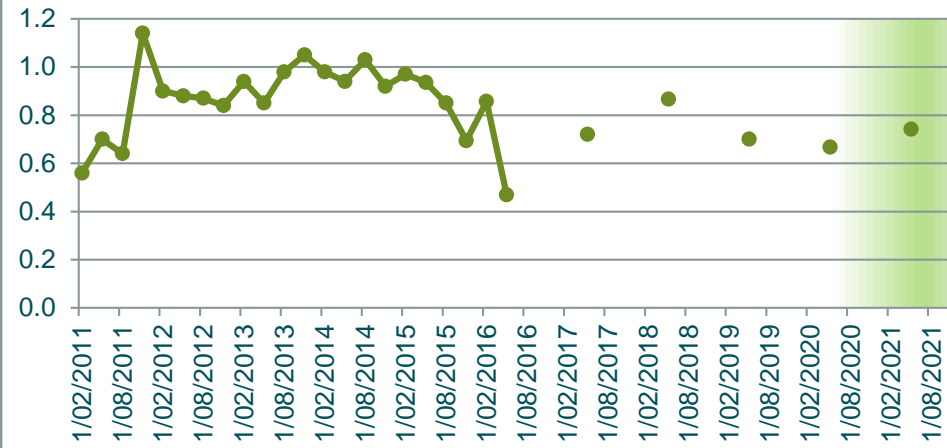
Lead (Total) mg/L



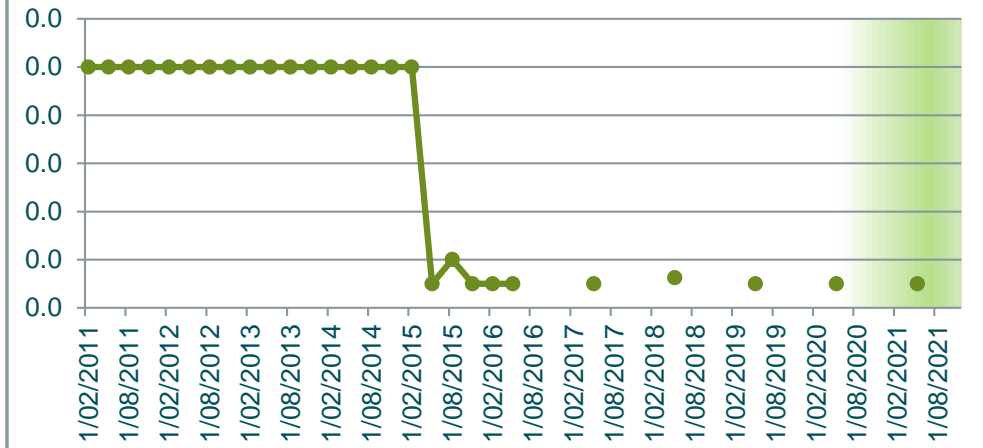
Magnesium (Total) mg/L



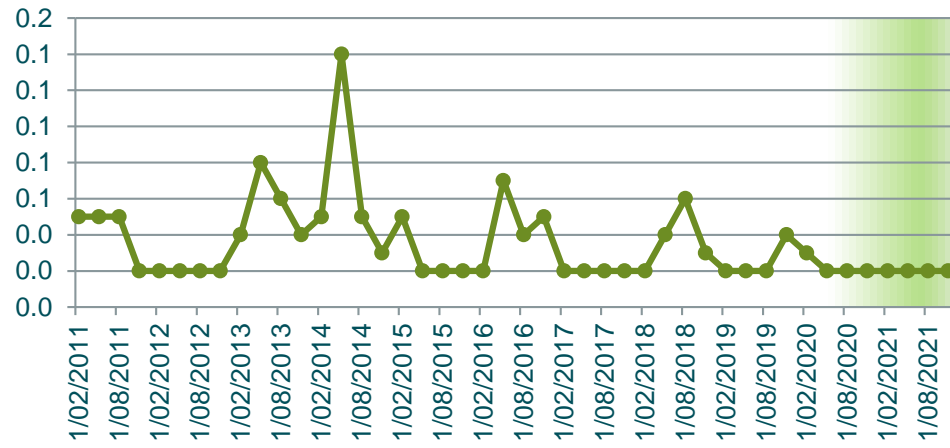
Manganese Total mg/L



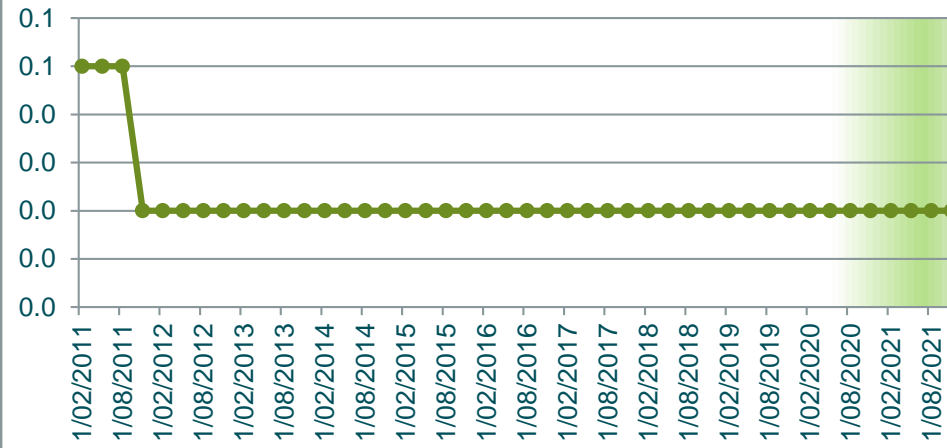
Nickel (Total) mg/L



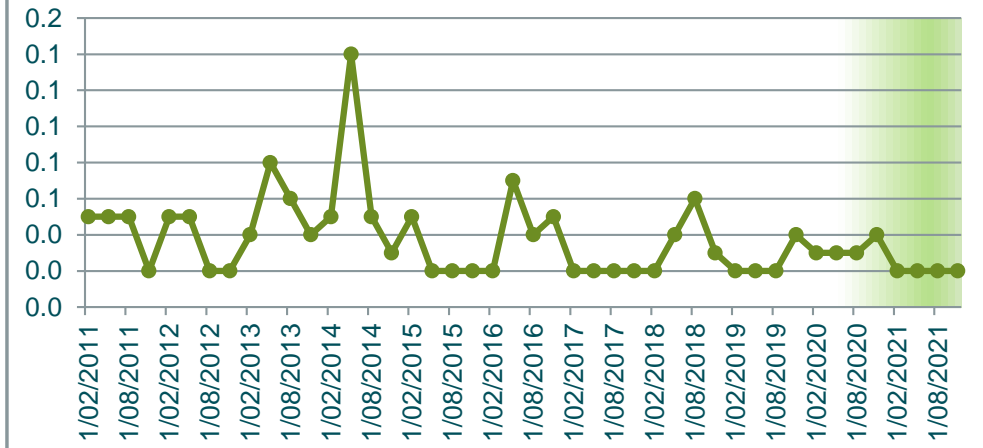
Nitrate N mg/L



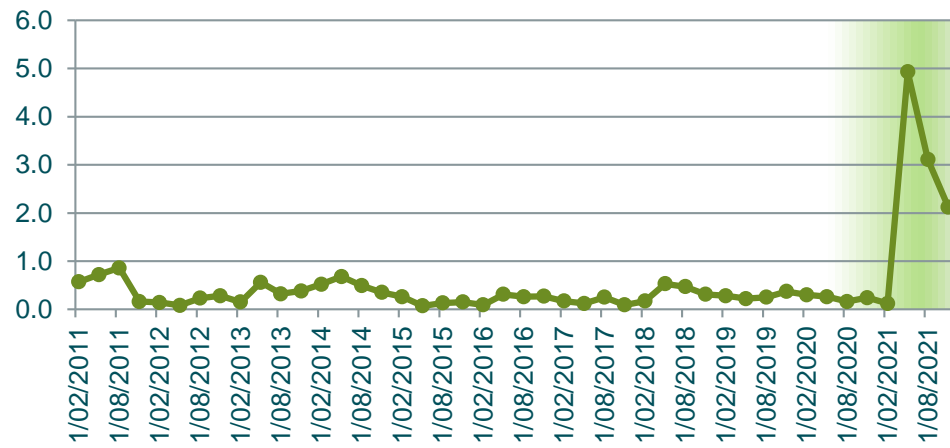
Nitrite N mg/L



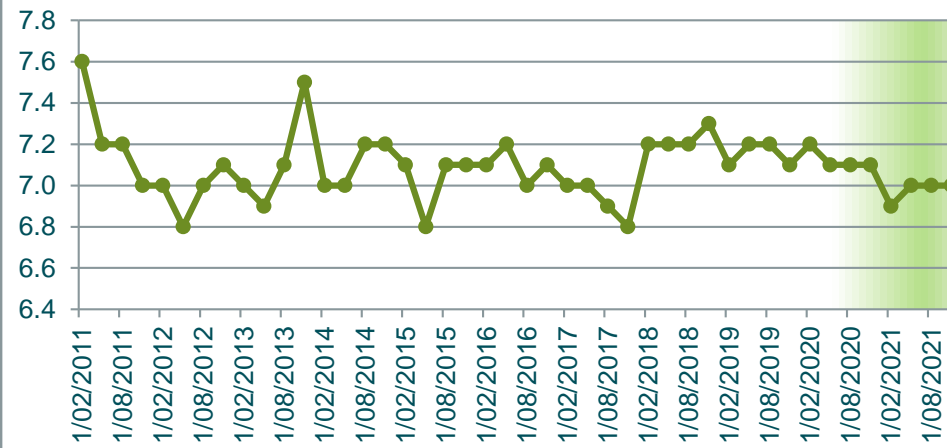
Nitrogen Oxidised mg/L



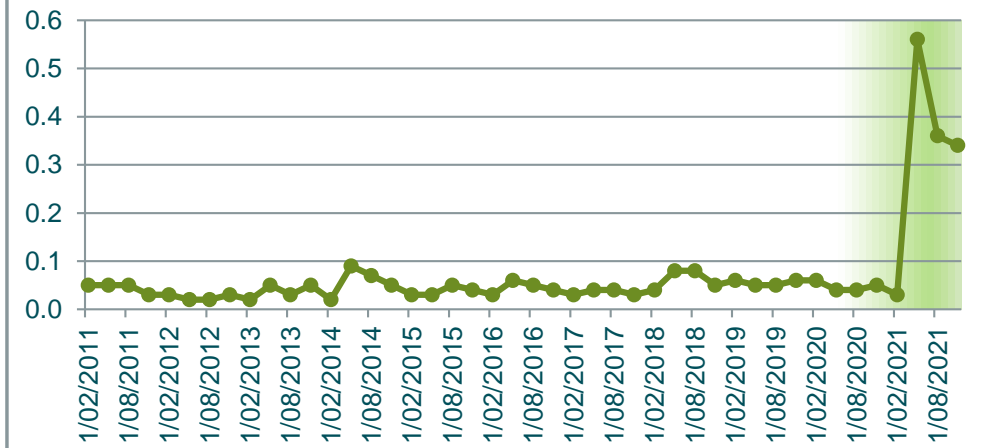
Nitrogen Total mg/L



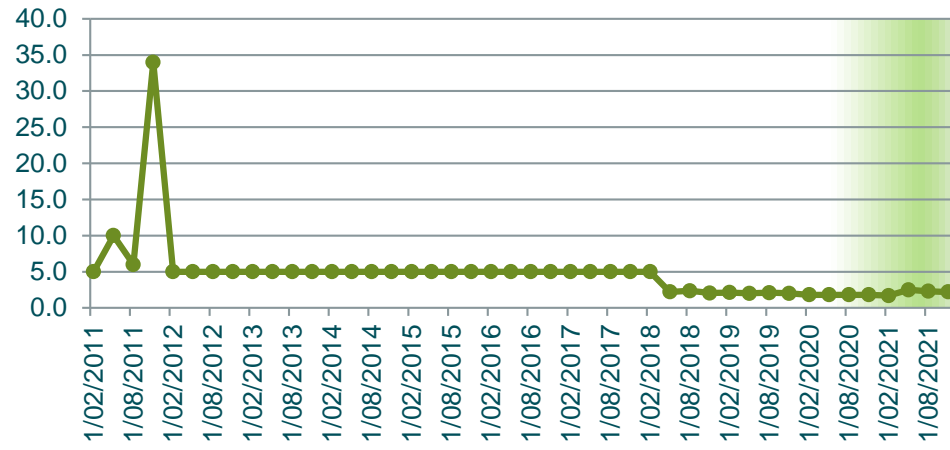
pH pH units



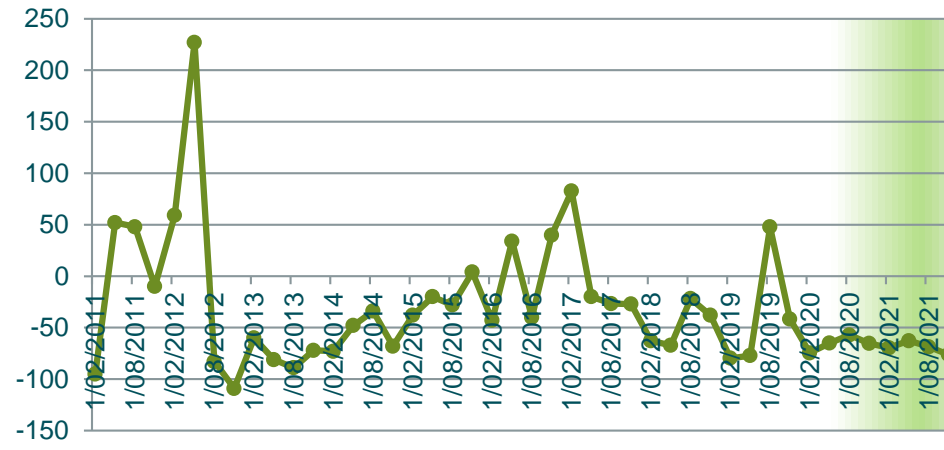
Phosphorus Total mg/L



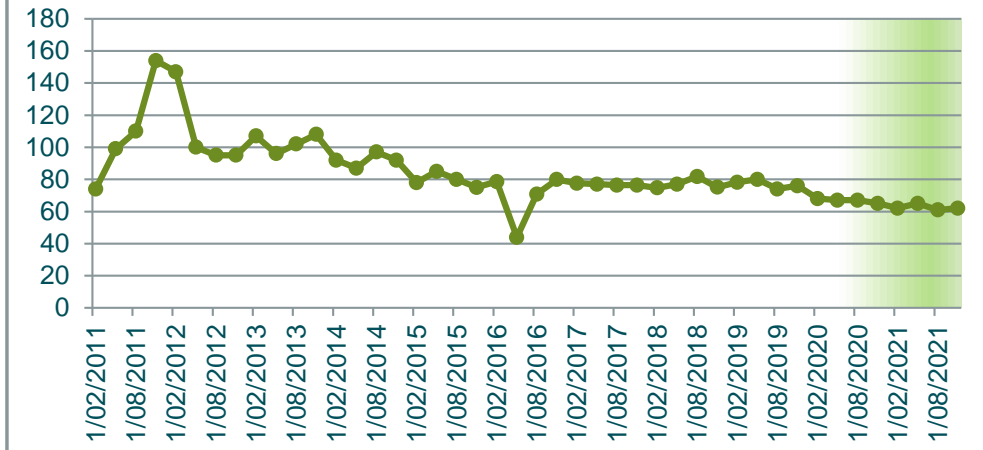
**Potassium Total
mg/L**



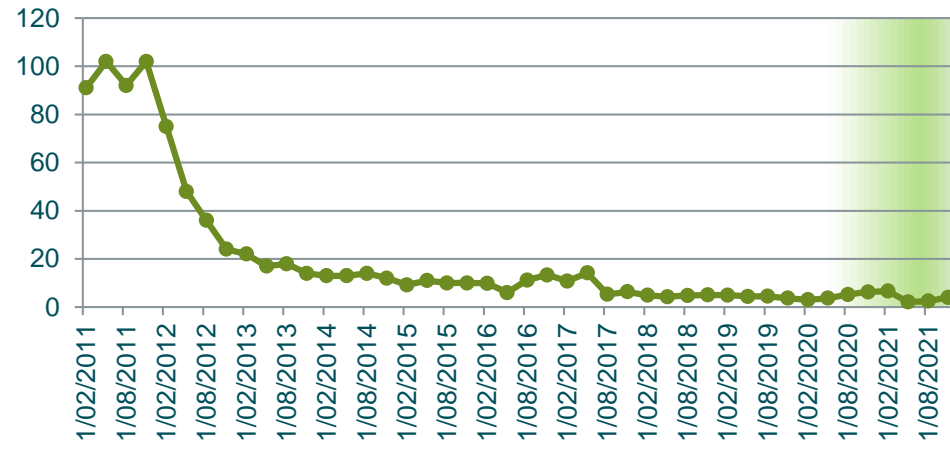
**Redox Potential
mV**



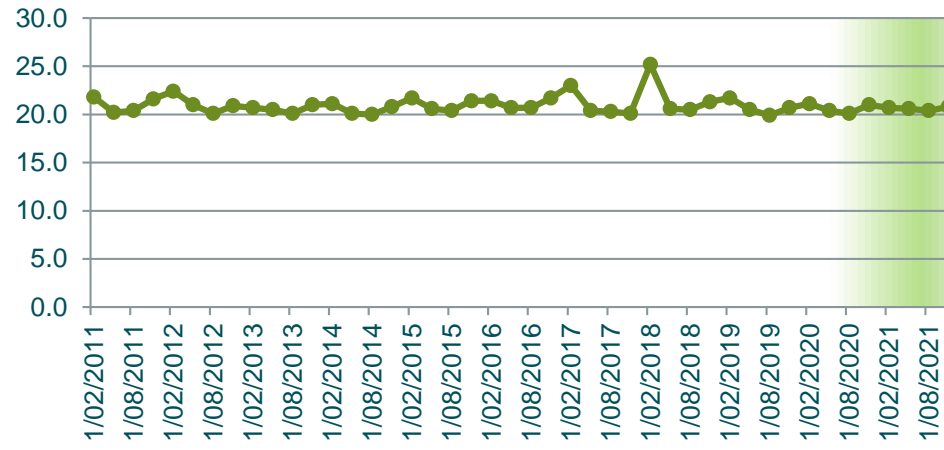
**Sodium (Total)
mg/L**



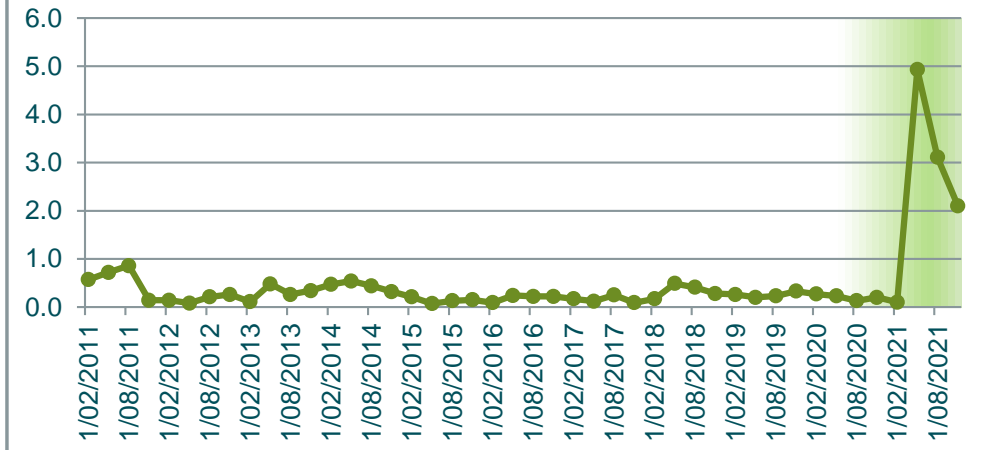
**Sulphate
mg/L**



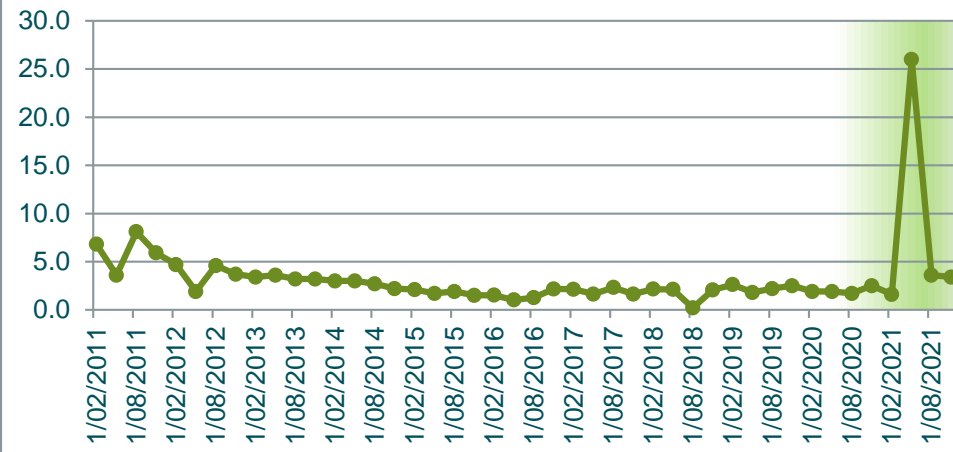
**Temperature
C**



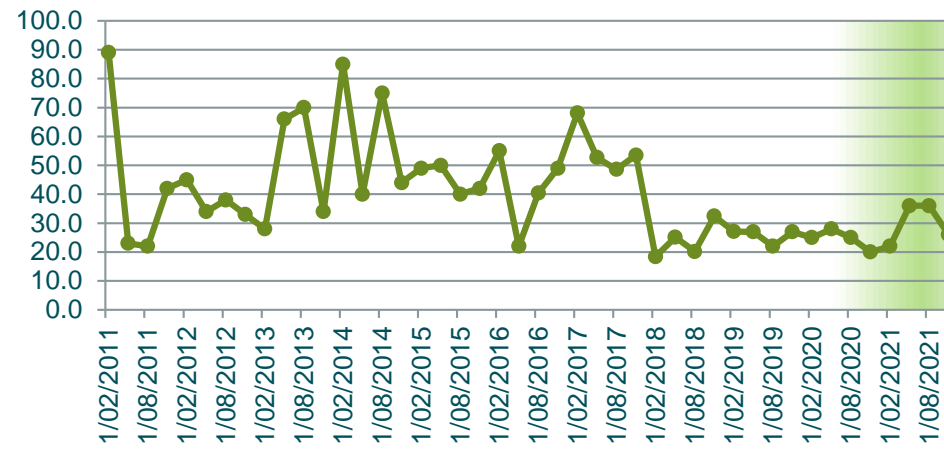
**TKN
mg/L**



TOC mg/L



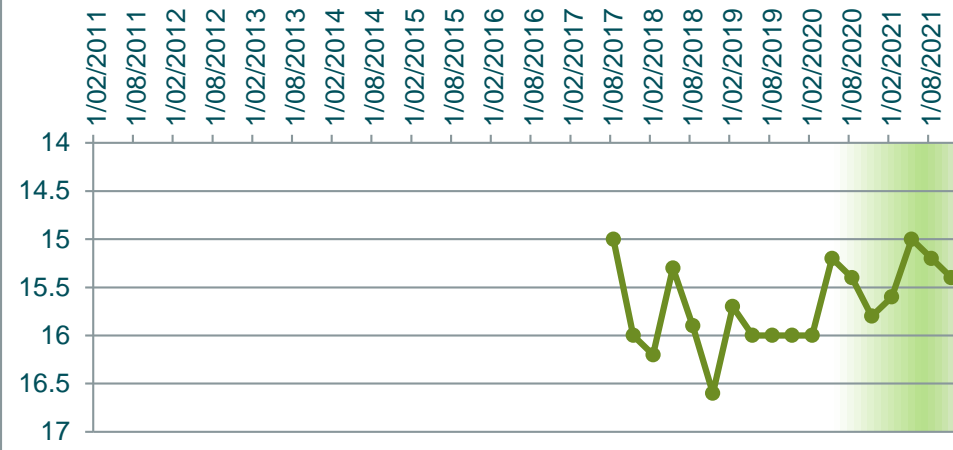
Total Acidity mg/L CaCO3



Zinc (Total) mg/L



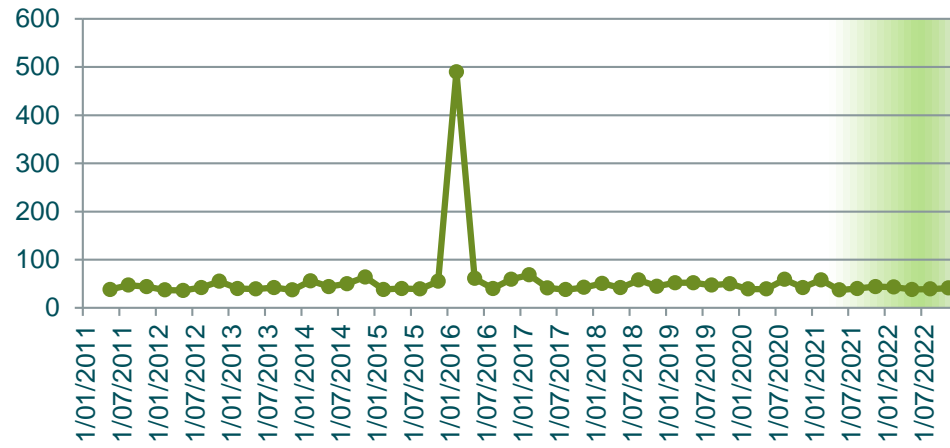
Depth to Groundwater m



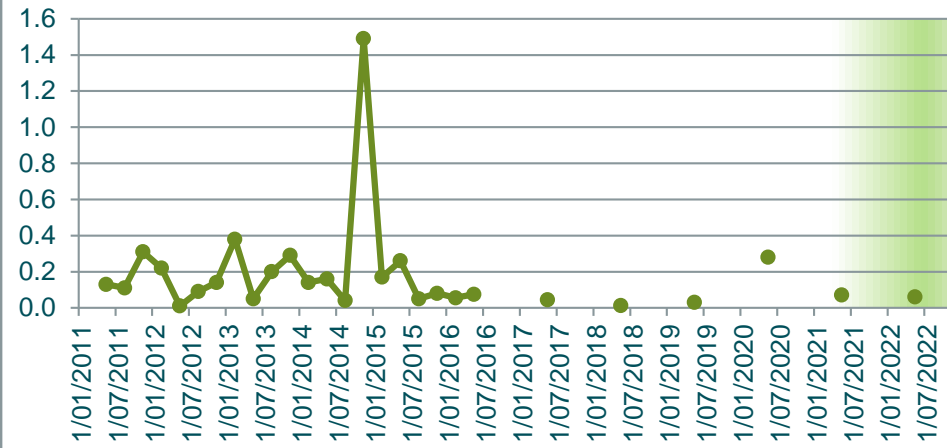
Depth to Groundwater m	Zinc (Total) mg/L	Total Acidity mg/L CaCO3	TOC mg/L	TKN mg/L	Temperature C	Sulphate mg/L	Sodium (Total) mg/L	Redox Potential mV	Potassium Total mg/L	Phosphorus Total mg/L	Phenol Alkalinity mg/L as CaCO3	pH pH units	Nitrogen Total mg/L	Nitrogen Oxidised mg/L	Nitrite N mg/L	Nitrate N mg/L	Nickel (Total) mg/L	Manganese Total mg/L	Magnesium (Total) mg/L	Lead (Total) mg/L	Iron Total mg/L	Flouride mg/L	DO (Membrane Electrode) mg/L	Copper (Total) mg/L	Conductivity uS/cm-1	Chromium 6 mg/L	Chromium 3 mg/L	Chromium (Total) mg/L	Chloride mg/L	Calcium (Total) mg/L	Cadmium (Total) mg/L	BOD5 mg/L	Bicarbonate HCO3 mg/L	Arsenic (Total) mg/L	Ammonia mg/L	Aluminium (Total) mg/L	Alkalinity mg/L as CaCO3	GW21		
31/01/2011																																								
10/05/2011	38	0.1	0.1	0.0	23	1.8	0.0	12	273	0.0	0.0	0.0	556	0.0	1.3	0.1	2.7	0.0	12	0.0	0.0	0.1	0.1	0.1	0.2	5.3		0.1	5.0	178	57	8	20	0.1	1.0	23	0.0			
9/08/2011	47	0.1	0.1	0.0	29	1.0	0.0	12	120	0.0	0.0	0.0	524	0.0	6.7	0.1	1.8	0.0	12	0.0	0.0	0.1	0.1	0.1	0.1	6.5		0.1	5.0	237	54	8	19	0.1	1.0	20	0.0			
8/11/2011	44	0.3	0.0	0.0	27	2.1	0.0	15	146	0.0	0.0	0.0	487	0.0	2.1	0.1	11.0	0.0	16	0.0	0.0	0.0	0.0	0.1	6.0		0.1	8.0	96	43	9	21	0.1	1.8	64	0.0				
6/02/2012	37	0.2	0.0	0.0	23	1.5	0.0	13	122	0.0	0.0	0.0	527	0.0	2.3	0.1	3.5	0.0	12	0.0	0.0	0.1	0.0	0.1	0.1	5.8		0.1	5.0	160	65	8	21	0.1	0.1	66	0.0			
8/05/2012	36	0.0	0.0	0.0	22	1.0	0.0	13	120	0.0	0.0	0.0	511	0.0	3.2	0.1	0.1	0.0	13	1.6	0.0	0.1	0.0	0.1	0.1	5.9		0.2	5.0	193	62	10	20	0.1	0.5	63	0.0			
6/08/2012	42	0.1	0.0	0.0	26	1.8	0.0	12	128	0.0	0.0	0.0	580	0.0	2.9	0.1	9.1	0.0	12	0.1	0.0	0.0	0.0	0.1	5.8		0.2	5.0	86	44	7	20	0.1	0.2	39	0.0				
13/11/2012	55	0.1	0.0	0.0	34	2.8	0.0	13	120	0.0	0.0	0.0	533	0.0	1.9	0.1	6.7	0.0	13	0.1	0.0	0.0	0.0	0.1	6.1		0.0	5.0	39	53	6	20	0.1	0.3	69	0.0				
13/02/2013	40	0.4	0.1	0.0	24	1.5	0.0	14	130	0.0	0.0	0.0	582	0.0	0.5	0.1	1.3	0.0	13	0.0	0.0	0.1	0.0	0.1	5.7		0.0	5.0	83	58	8	20	0.1	0.2	46	0.0				
14/05/2013	39	0.1	0.0	0.0	24	1.0	0.0	14	130	0.0	0.0	0.0	551	0.0	3.1	0.1	1.2	0.0	12	0.0	0.0	0.1	0.0	0.1	5.9		0.0	5.0	68	55	7	21	0.1	0.2	78	0.0				
6/08/2013	42	0.2	0.0	0.0	26	4.5	0.0	16	120	0.0	0.0	0.0	578	0.0	0.6	0.1	3.6	0.0	15	0.0	0.0	0.0	0.0	0.1	5.8		0.0	5.0	98	63	9	20	0.1	0.2	130	0.0				
12/11/2013	37	0.3	0.0	0.0	23	1.0	0.0	15	132	0.0	0.0	0.0	543	0.0	5.2	0.1	1.9	0.0	15	0.0	0.0	0.1	0.0	0.1	6.0		0.1	5.0	787	64	9	20	0.1	0.2	21	0.1				
11/02/2014	56	0.1	0.1	0.0	34	2.7	0.0	19	128	0.0	0.0	0.0	536	0.0	1.0	0.1	6.8	0.0	15	0.1	0.0	0.1	0.0	0.1	6.1		0.0	5.0	11	75	13	21	0.1	0.2	193	0.0				
13/05/2014	44	0.2	0.0	0.0	27	1.2	0.0	12	132	0.0	0.0	0.0	561	0.0	2.2	0.1	2.8	0.0	13	0.0	0.0	0.1	0.0	0.1	5.9		0.1	5.0	52	55	7	21	0.1	0.2	64	0.0				
12/08/2014	50	0.0	0.0	0.0	30	1.5	0.0	16	130	0.0	0.0	0.0	548	0.0	3.2	0.1	2.9	0.0	15	0.0	0.0	0.1	0.0	0.1	6.2		0.0	5.0	48	63	7	20	0.1	0.2	120	0.0				
10/11/2014	64	1.5	0.1	0.0	39	3.0	0.0	16	132	0.0	0.0	0.0	562	0.0	1.8	0.1	8.8	0.0	16	0.1	0.0	0.1	0.0	0.1	6.3		0.0	5.0	3	64	6	21	0.1	0.2	148	0.0				
9/02/2015	38	0.2	0.0	0.0	23	1.0	0.0	13	130	0.0	0.0	0.0	526	0.0	1.8	0.1	2.2	0.0	12	0.0	0.0	0.0	0.0	0.2	6.0		0.1	5.0	56	56	8	21	0.2	0.2	75	0.0				
11/05/2015	40	0.3	0.0	0.0	24	1.0	0.0	15	132	0.0	0.0	0.0	568	0.0	2.4	0.1	6.6	0.0	14	0.0	0.0	0.0	0.0	0.1	6.0		0.2	5.0	61	62	8	21	0.1	0.2	79	0.0				
11/08/2015	39	0.1	0.0	0.0	39	1.0	0.0	15	38	0.0	0.0	0.0	528	0.0	8.2	0.1	1.7	0.0	14	0.0	0.0	0.1	0.0	0.1	6.6		0.1	5.0	83	60	8	20	0.1	0.2	22	0.0				
10/11/2015	55	0.1	0.0	0.0	55	1.0	0.0	16	128	0.0	0.0	0.0	471	0.0	1.5	0.1	4.0	0.0	14	0.1	0.0	0.0	0.0	0.1	6.1		0.0	5.0	-45	59	7	20	0.1	0.2	75	0.0				
8/02/2016	490	0.1	0.0	0.0	490	1.2	0.0	15	131	0.0	0.0	0.0	552	0.0	1.0	0.1	3.5	0.0	14	0.1	0.0	0.0	0.0	0.1	6.1		0.0	5.0	57	59	7	21	0.1	0.2	107	0.0				
9/05/2016	61	0.1	0.0	0.0	61	2.2	0.0	16	128	0.0	0.0	0.0	567	0.0	2.1	0.1	6.0	0.0	14	0.1	0.0	0.0	0.0	0.1	6.2		0.1	5.0	42	60	6	21	0.1	0.4	92	0.0				
9/08/2016	40		0.0		40	1.0		14	132				530		3.9	0.1			14						5.8		0.1	5.0	140	60	8	20	0.1	0.3	92					
7/11/2016	59		0.0		59	1.8		17	135				562		1.6	0.1			15						6.0		0.0	5.0	163	63	7	20	0.1	0.5	87					
7/02/2017	68		0.1		68	3.6		16	135				583		1.6	0.1			14						6.0		0.1	5.0	102	61	5	21	0.3	2.0	129					
8/05/2017	42	0.0	0.0	0.0	42	1.0	0.0	14	132	0.0	0.0	0.0	541	0.0	2.0	0.1	1.6	0.0	14	0.1	0.0	0.0	0.0	0.1	5.7		0.1	5.0	202	58	9	21	0.1	0.3	64	0.0				
8/08/2017	38		0.0		38	1.0		14	115				540		5.3	0.1			14						5.9		0.0	5.0	346	59	8	20	0.1	0.5	36		0.6			
7/11/2017	42		0.0		42	1.0		16	136				558		4.0	0.1			14						5.9		0.1	5.0	325	61	7	21	0.1	0.5	32		0.8			
13/02/2018	50		0.0		50	1.0		15	133				553		2.0	0.1			14						6.0		0.0	5.0	105	60	6	22	0.1	0.7	68		1.8			
8/05/2018	42	0.0	0.0	0.0	42	1.8	0.0	15	158	0.0	0.0	0.0	551	0.0	2.4	0.1	1.3	0.0	14	0.1	0.0	0.0	0.0	0.1	5.8		0.0	2.1	161	63	7	21	0.1	0.2	70	0.0	0.5			

14/08/2018	58		0.0		58	3.6		17	135				565		3.2	0.1			15			0.0	0.0	0.0	0.1	6.0		0.0	2.1	169	67	4	20	0.1	0.8	59		1.2
13/11/2018	45		0.0		45	1.0		16	142				553		5.0	0.1			14			0.1	0.0	0.1	0.1	6.3		0.1	2.1	93	61	6	21	0.1	0.5	34		0.9
12/02/2019	52		0.0		52	1.2		17	145				561		2.2	0.1			15			0.0	0.0	0.0	0.1	6.0		0.0	2.0	213	65	6	21	0.1	0.5	16		1.9
14/05/2019	52	0.0	0.0	0.0	52	1.8	0.0	17	140	0.0	0.0	0.0	559	0.0	2.6	0.1	2.0	0.0	16	0.1	0.0	0.1	0.0	0.1	0.2	6.0		0.0	2.2	84	68	5	21	0.1	0.5	60	0.0	0.8
13/08/2019	47		0.0		47	1.0		16	130				549		6.5	0.1			15			0.0	0.0	0.0	0.1	6.4		0.1	2.1	354	66	5	20	0.1	0.9	20		0.9
12/11/2019	50		0.0		50	1.0		16	130				574		3.5	0.1			15			0.0	0.0	0.0	0.1	6.2		0.0	2.1	185	65	5	21	0.1	0.8	40		2.1
25/02/2020	39		0.0		39	1.0		15	140				552		1.6	0.1			14			0.0	0.0	0.0	0.1	5.8	0.0	0.0	2.2	159	60	7	22	0.1	0.5	67		0.1
12/05/2020	39	0.3	0.0	0.0	39	1.0	0.0	14	140	0.0	0.0	0.0	560	0.0	5.7	0.1	3.5	0.0	14	0.0	0.0	0.0	0.0	0.0	0.2	6.1	0.0	0.1	2.1	196	61	7	20	0.2	0.4	26	0.0	0.6
11/08/2020	59		0.0		59	1.5		16	140				566		2.5	0.1			15			0.0	0.0	0.0	0.1	6.0	0.0	0.0	2.0	71	62	5	20	0.1	0.4	59		0.2
10/11/2020	42		0.0		42	1.0		15	140				554		4.6	0.1			14			0.1	0.0	0.1	0.2	6.0	0.0	0.1	2.1	244	63	6	20	0.1	0.4	26		0.9
9/02/2021	58		1.4		58	8.4		15	140				583		1.2	0.1			15			0.0	0.1	0.1	1.8	5.8	0.0	0.2	2.8	-4	62	5	23	1.6	1.5	55		0.8
11/05/2021	37	0.1	0.0	0.0	37	1.0	0.0	16	130	0.0	0.0	0.0	542	0.0	1.4	0.1	7.9	0.0	15	0.1	0.0	0.1	0.0	0.1	0.2	5.8	0.0	0.1	2.3	189	62	8	21	0.1	0.6	68	0.0	0.1
10/08/2021	40		0.0		40	1.0		14	140				547		5.1	0.1			14			0.0	0.0	0.0	0.1	5.9	0.0	0.2	2.2	193	59	7	19	0.1	0.4	43		0.5
8/11/2021	44		0.0		44	1.0		15	150				557		4.6	0.1			15			0.0	0.0	0.0	0.1	6.0	0.0	0.0	2.1	211	61	7	20	0.1	0.4	37		0.5
8/02/2022	43		0.0		43	1.0		16	140				579		3.9	0.1			15			0.0	0.0	0.0	0.1	5.8	0.0	0.1	2.3	116	61	7	20	0.1	0.5	61		0.1
10/05/2022	38	0.1	0.0	0.0	38	1.0	0.0	15	140	0.0	0.0	0.0	559	0.0	2.2	0.1	3.4	0.0	15	0.0	0.0	0.1	0.0	0.1	0.1	5.8	0.0	0.1	2.2	180	59	8	20	0.1	0.5	69	0.0	0.1
9/08/2022	39		0.0		39	1.0		16	140				564		3.0	0.0			15			0.0	0.0	<0.0 2	<0.0 5	5.8	0.0	0.1	2.3	202	62	7	19	0.1	0.5	67		0.2
8/11/2022	41		0.0		41	1.0		16	140				577		4.4	0.1			15			0.0	0.0	0.0	<0.0 5	5.9	0.0	0.0	2.4	174	60	7	20	0.1	0.6	48		0.4
2022 Min	38	0.1	0.0	0.0	38	1.0	0.0	15	140	0.0	0.0	0.0	559	0.0	2.2	0.0	3.4	0.0	15	0.0	0.0	0.0	0.0	0.0	0.1	5.8	0.0	0.0	2.2	116	59	7	19	0.1	0.5	48	0.0	0.1
2022 Max	43	0.1	0.0	0.0	43	1.0	0.0	16	140	0.0	0.0	0.0	579	0.0	4.4	0.1	3.4	0.0	15	0.0	0.0	0.1	0.0	0.1	0.1	5.9	0.0	0.1	2.4	202	62	8	20	0.1	0.6	69	0.0	0.4
2022 Mean	40	0.1	0.0	0.0	40	1.0	0.0	16	140	0.0	0.0	0.0	570	0.0	3.4	0.1	3.4	0.0	15	0.0	0.0	0.0	0.0	0.0	0.1	5.8	0.0	0.1	2.3	168	61	7	20	0.1	0.5	61	0.0	0.2
Long-term Average	55	0.2	0.1	0.0	49	1.6	0.0	15	135	0.0	0.0	0.0	551	0.0	3.0	0.1	4.0	0.0	14	0.1	0.0	0.0	0.0	0.1	0.1	6.0	0.0	0.1	3.9	148	60	7	20	0.1	0.5	64	0.0	0.7

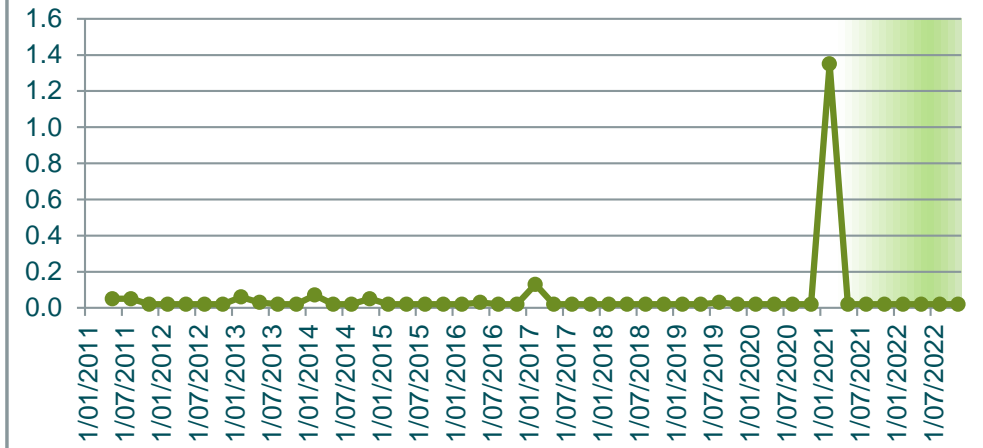
Alkalinity
mg/L as CaCO3



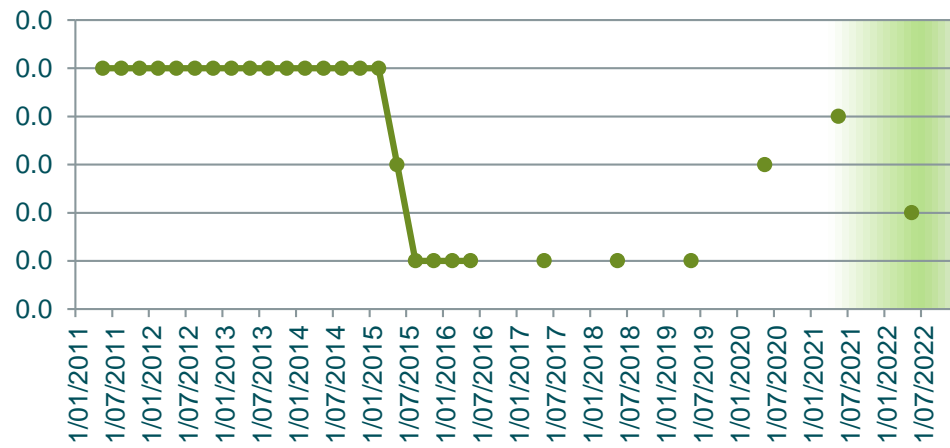
Aluminium (Total)
mg/L



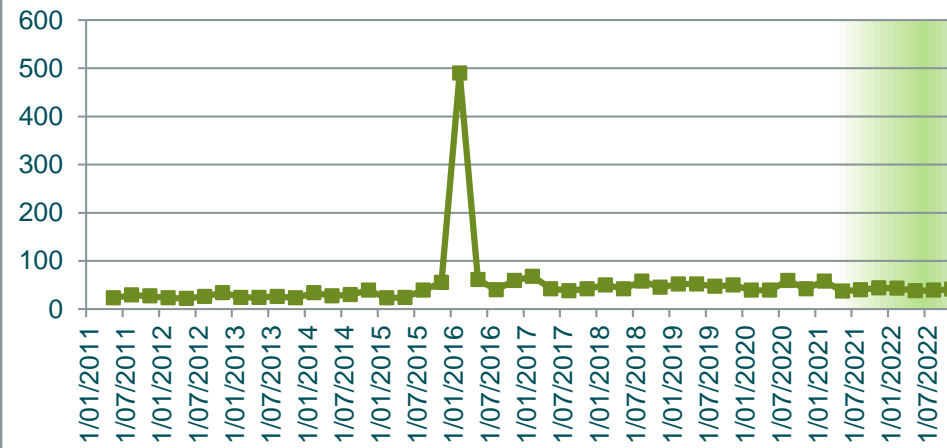
Ammonia
mg/L



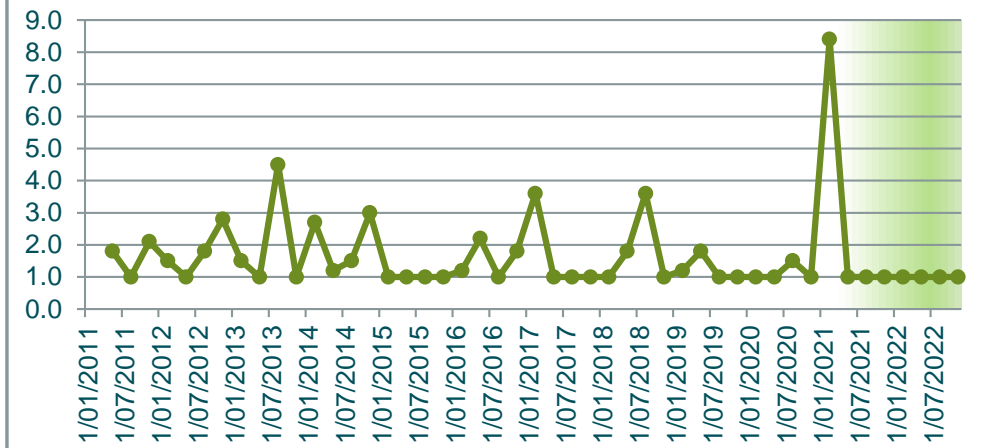
Arsenic (Total)
mg/L



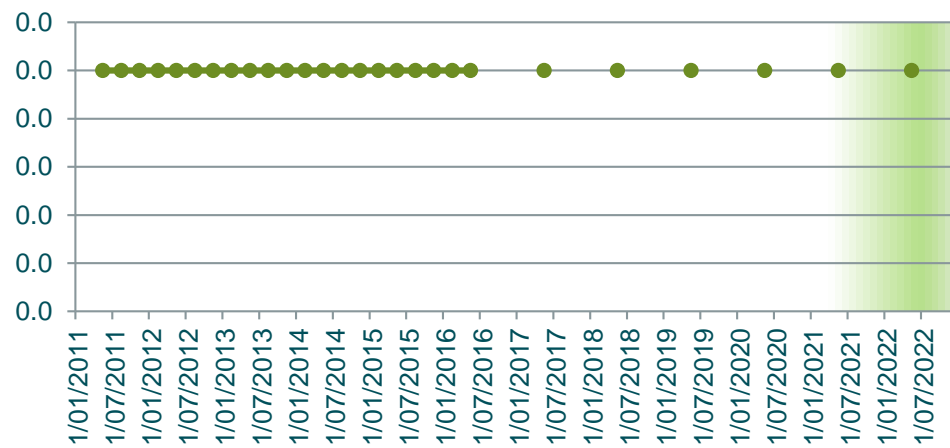
Bicarbonate HCO3
mg/L



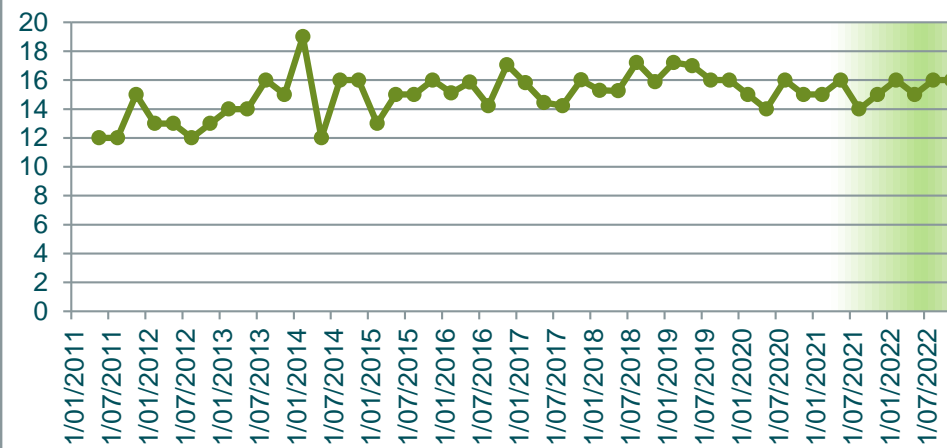
BOD5
mg/L



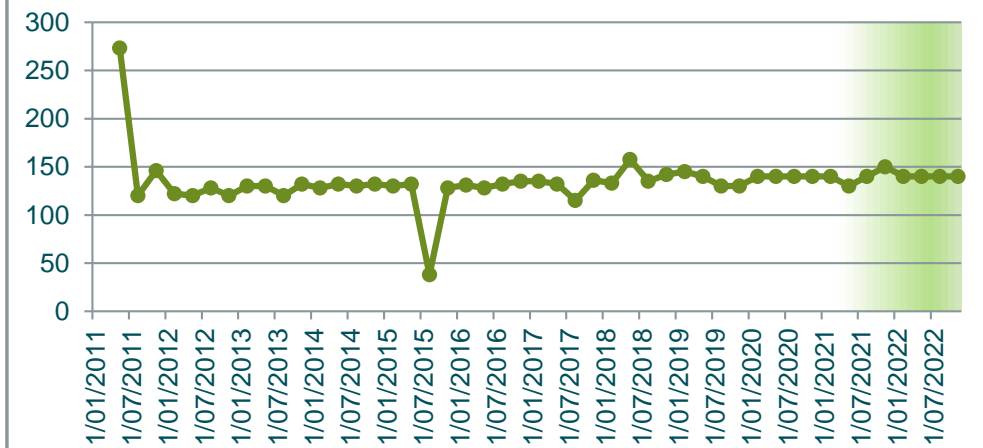
Cadmium (Total)
mg/L



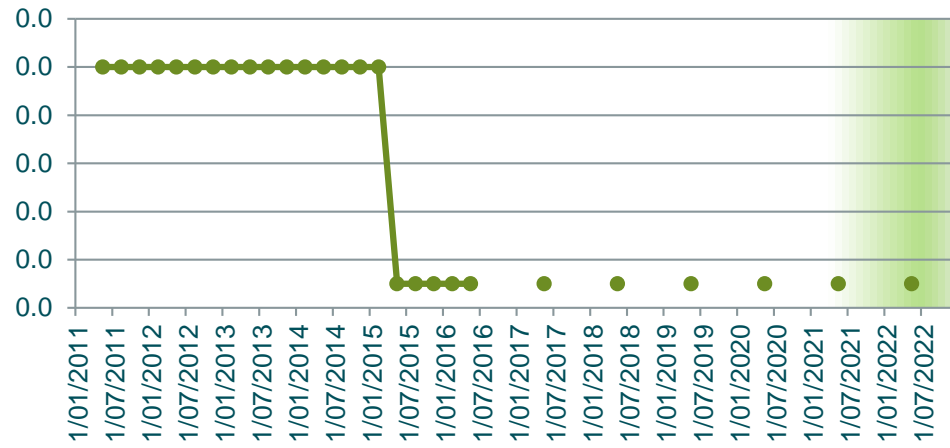
Calcium (Total)
mg/L



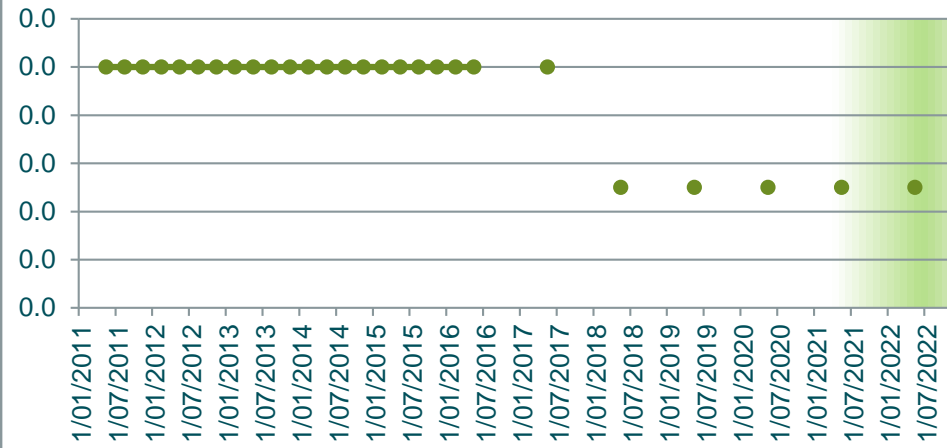
Chloride
mg/L



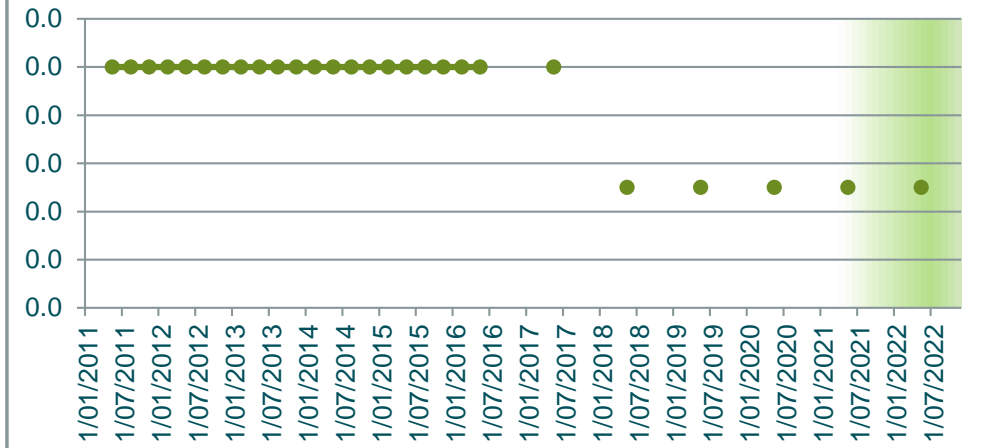
Chromium (Total) mg/L



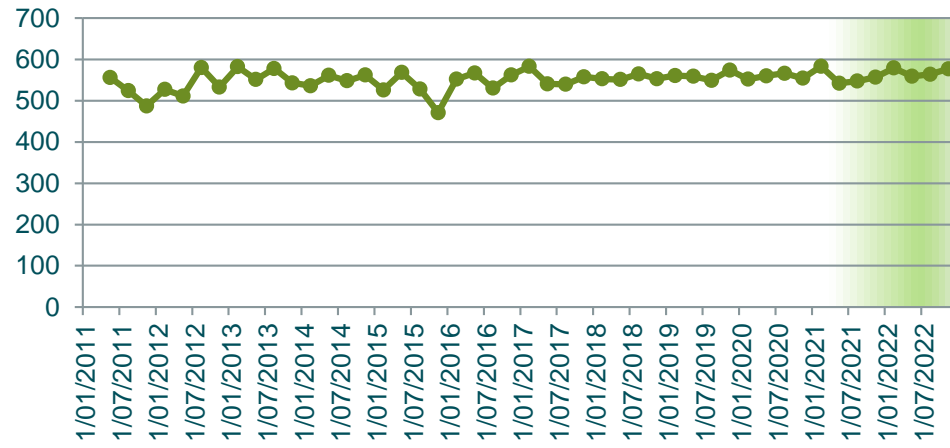
Chromium 3 mg/L



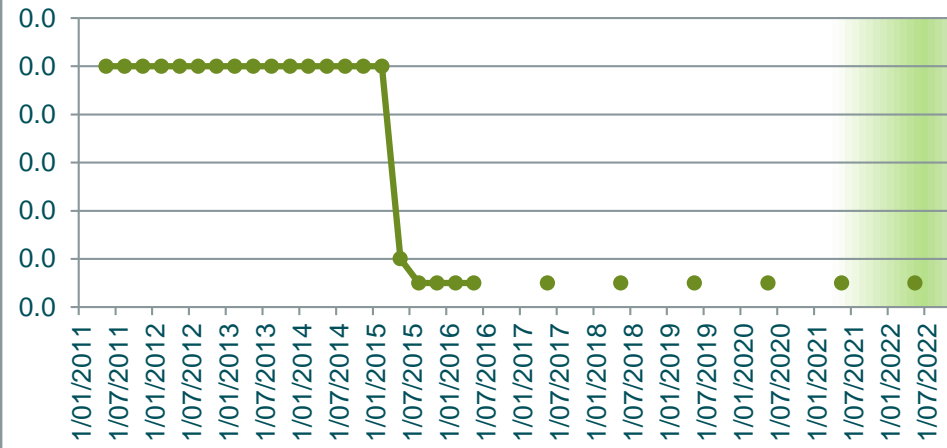
Chromium 6 mg/L



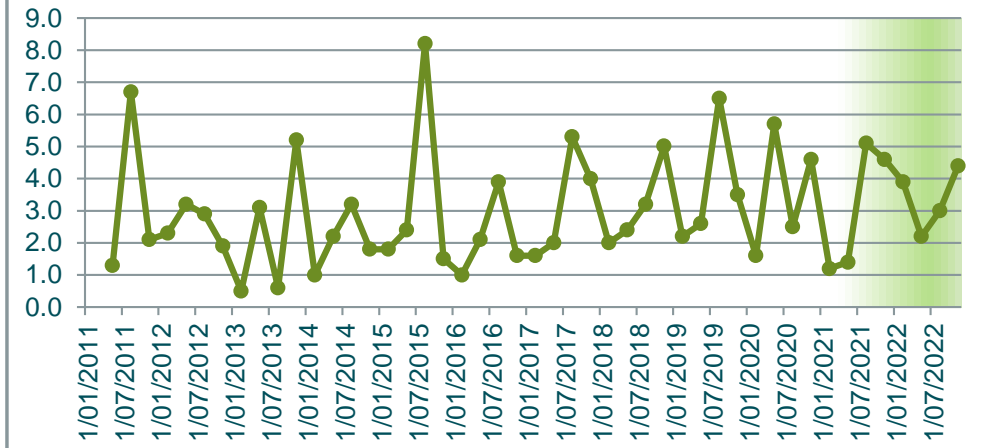
Conductivity µScm-1



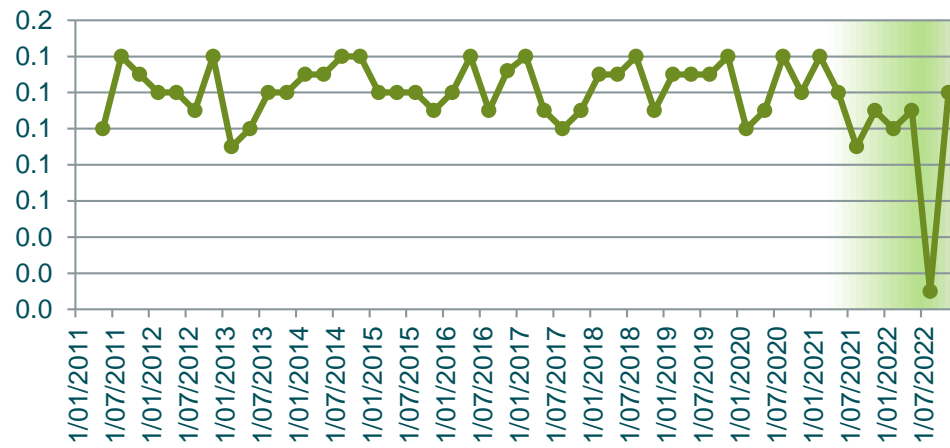
Copper (Total) mg/L



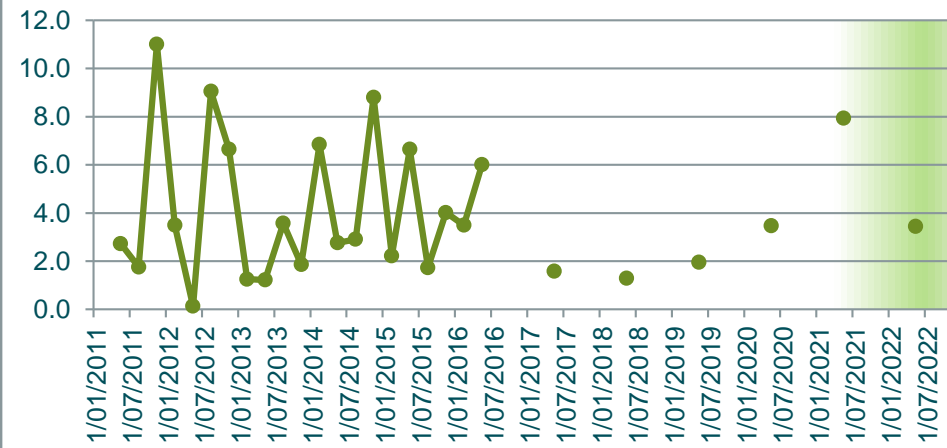
DO (Membrane Electrode) mg/L



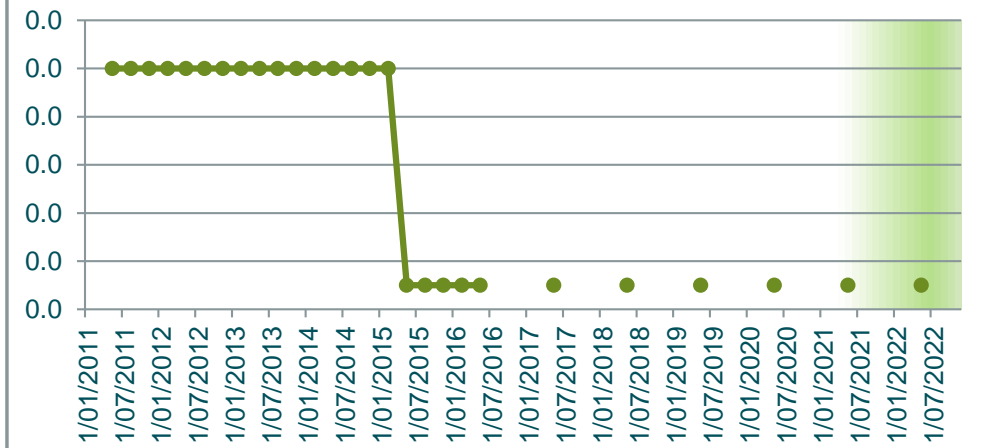
Flouride mg/L



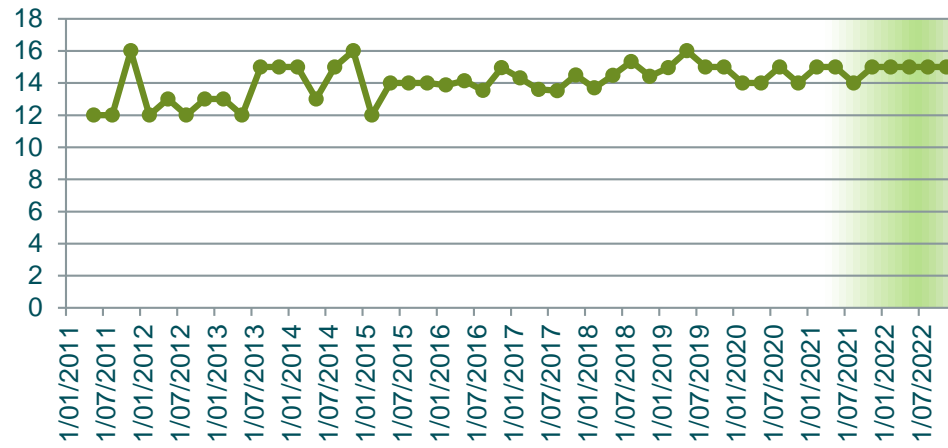
Iron Total mg/L



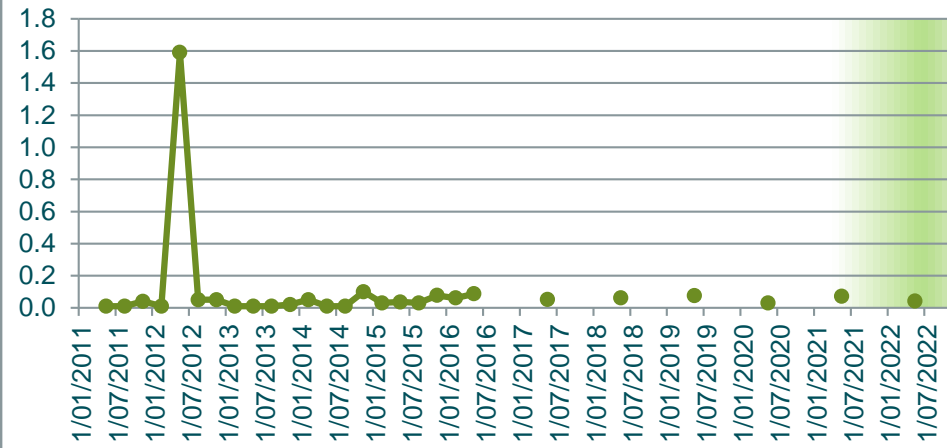
Lead (Total) mg/L



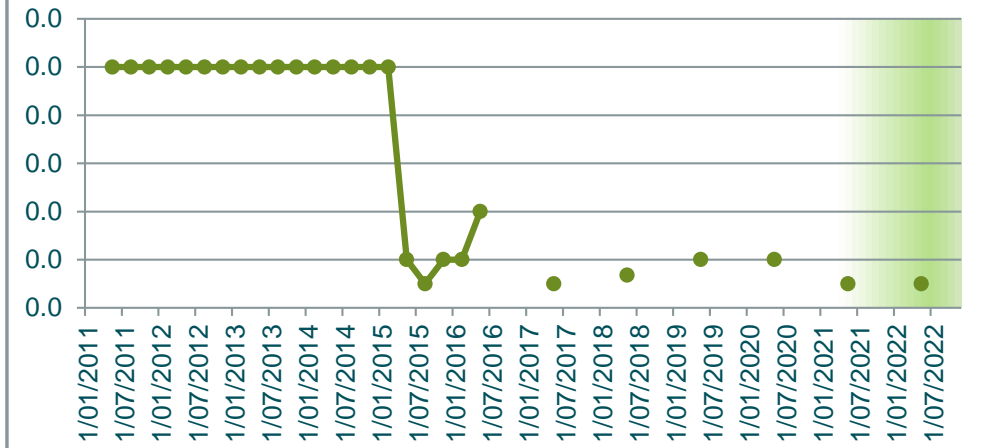
Magnesium (Total) mg/L



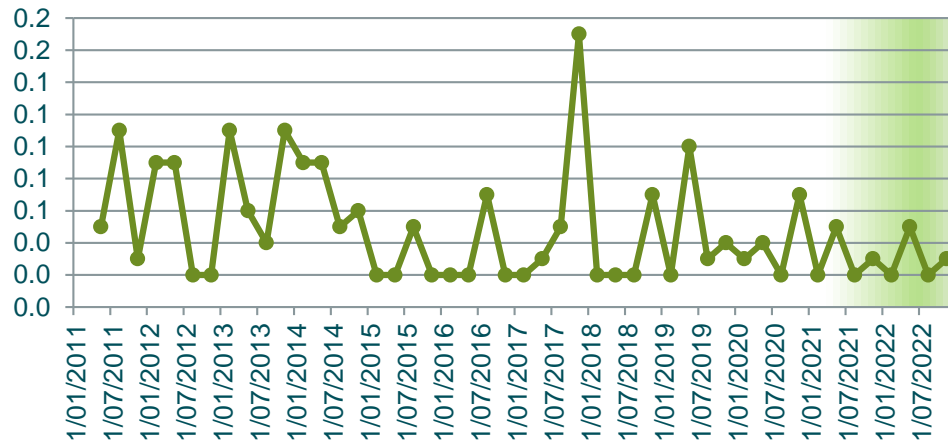
Manganese Total mg/L



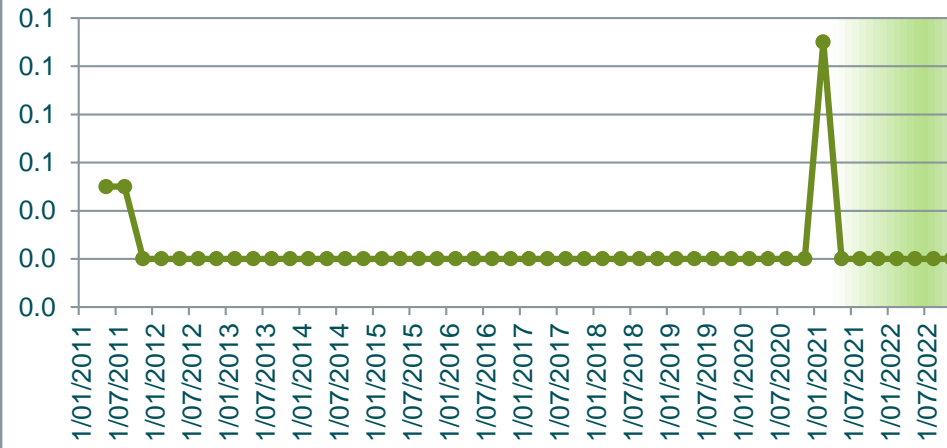
Nickel (Total) mg/L



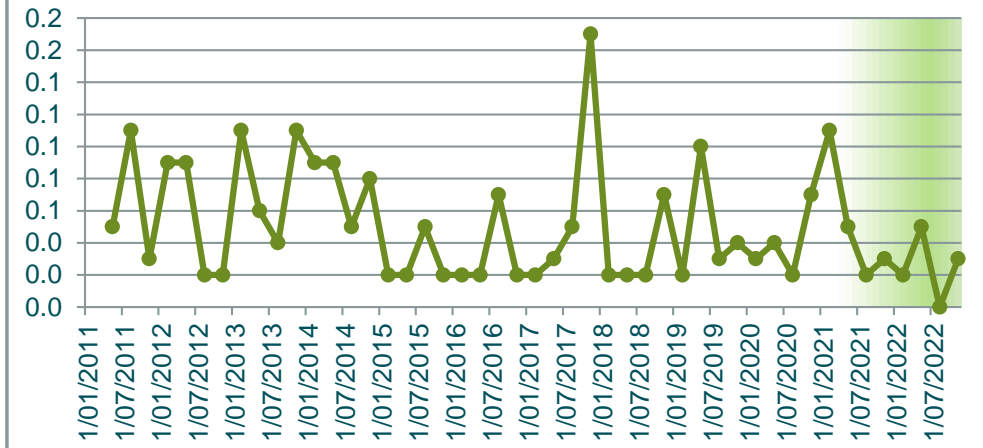
Nitrate N mg/L



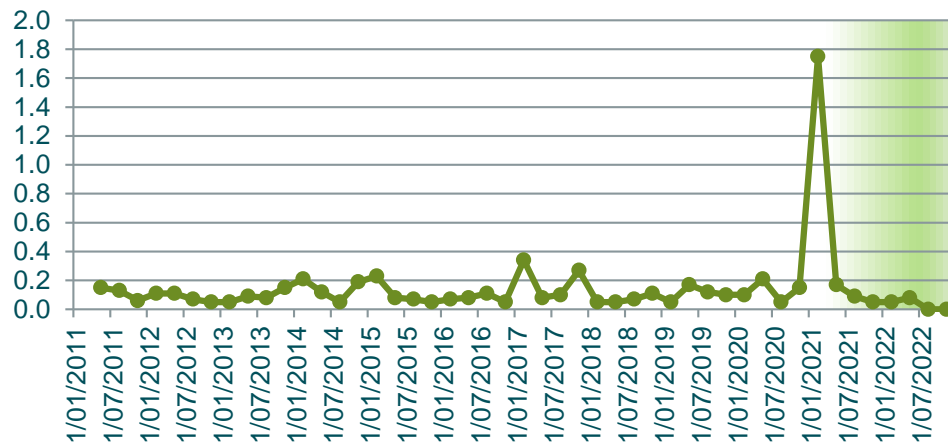
Nitrite N mg/L



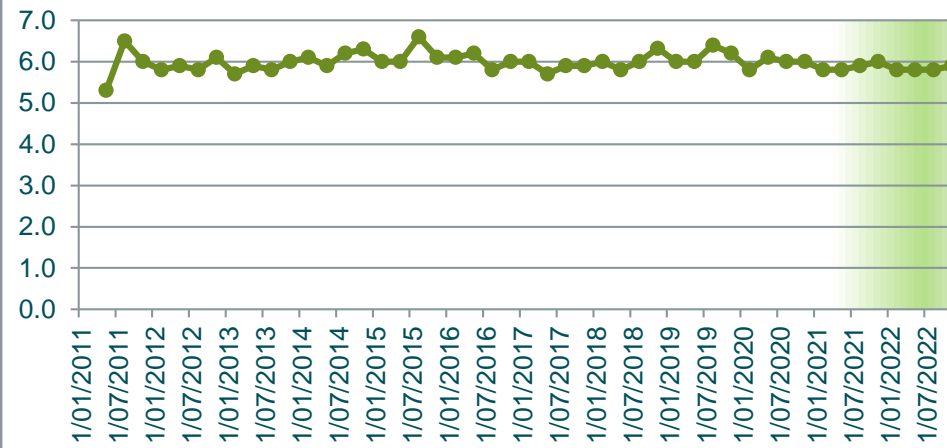
Nitrogen Oxidised mg/L



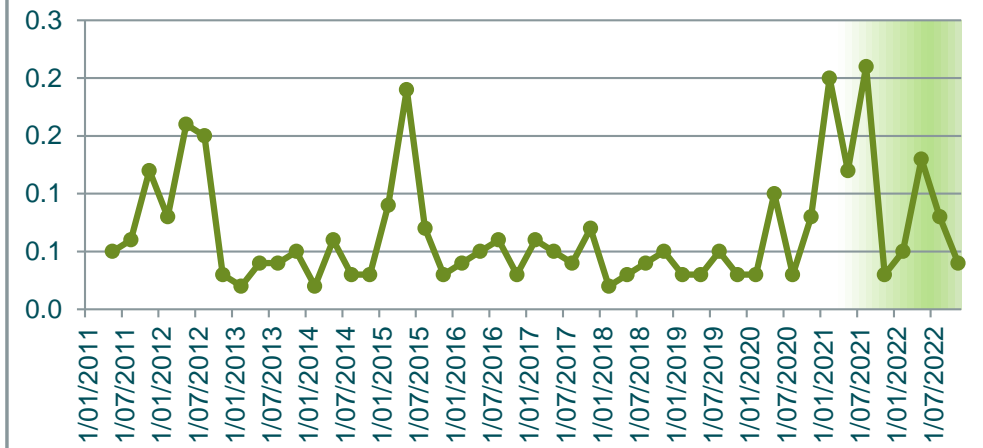
Nitrogen Total mg/L



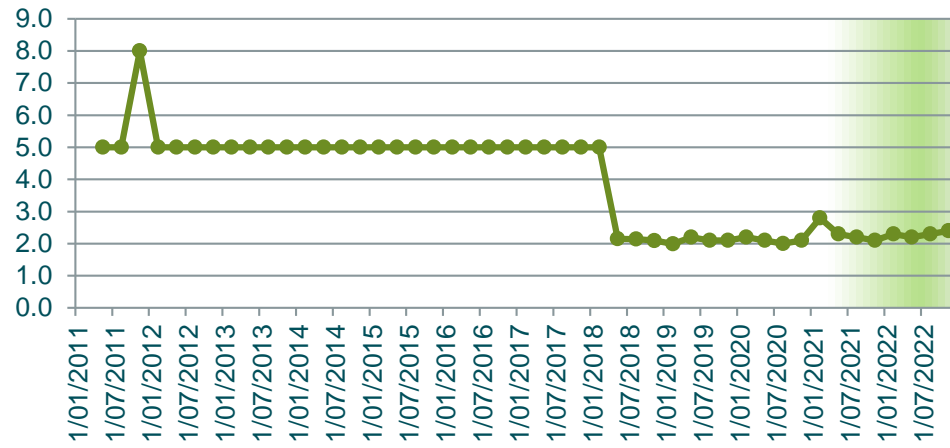
pH pH units



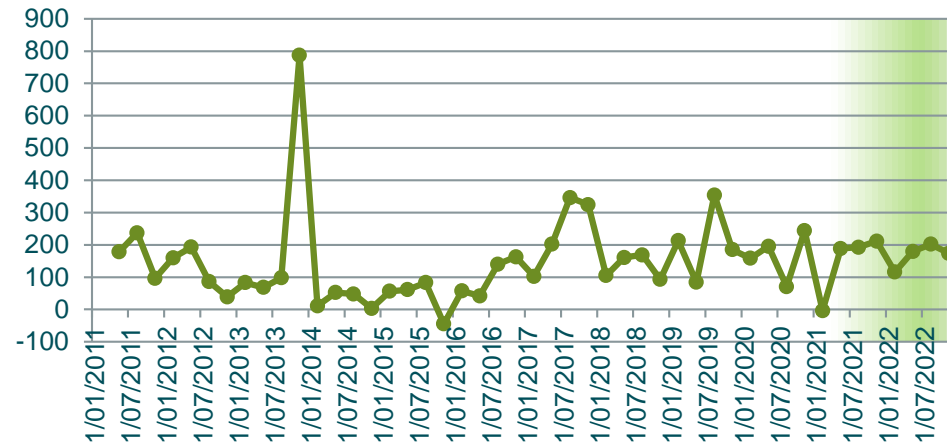
Phosphorus Total mg/L



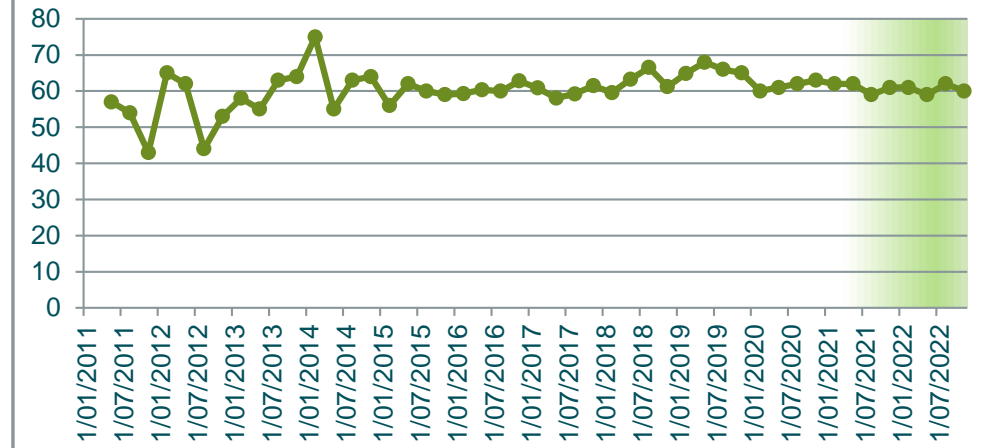
**Potassium Total
mg/L**



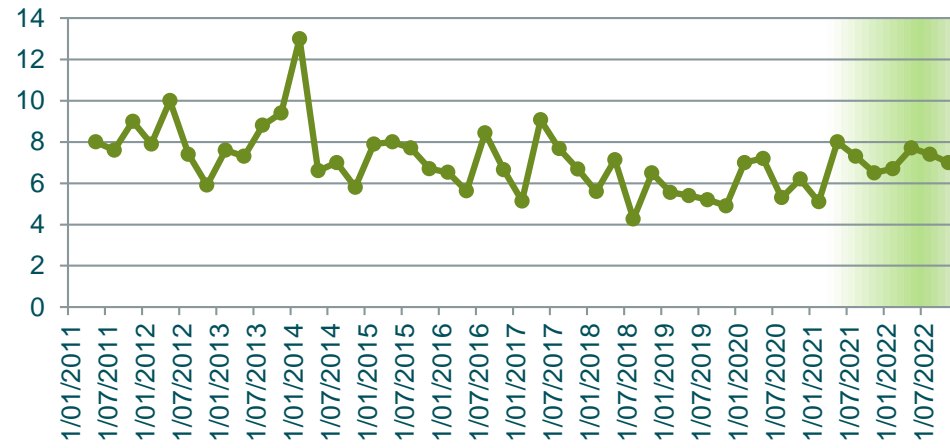
**Redox Potential
mV**



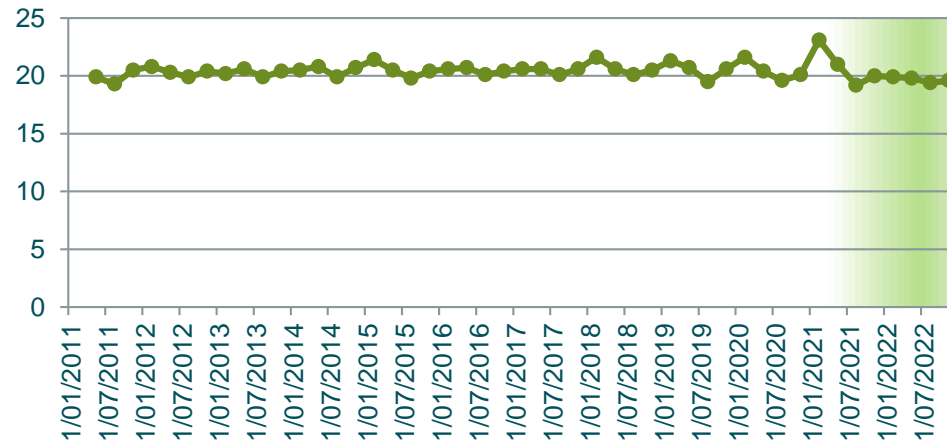
**Sodium (Total)
mg/L**



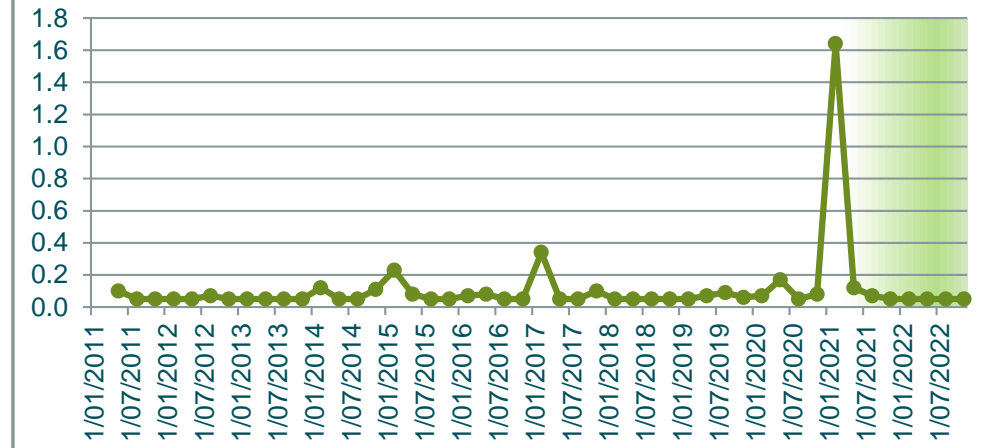
**Sulphate
mg/L**



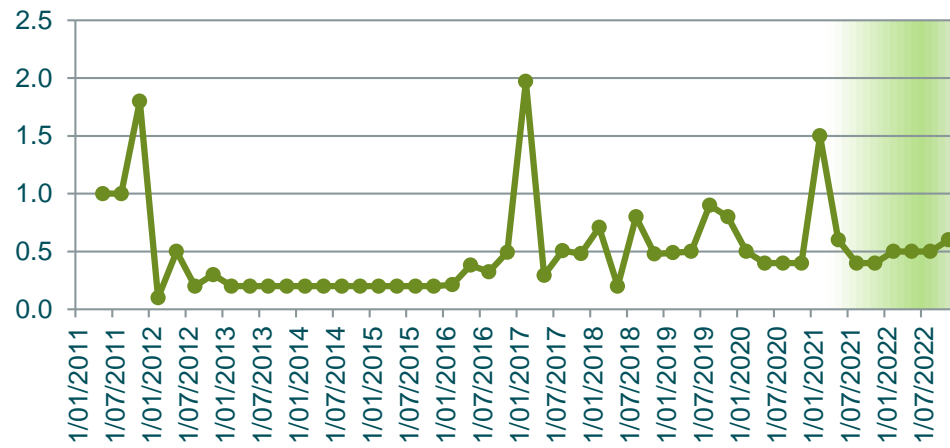
**Temperature
C**



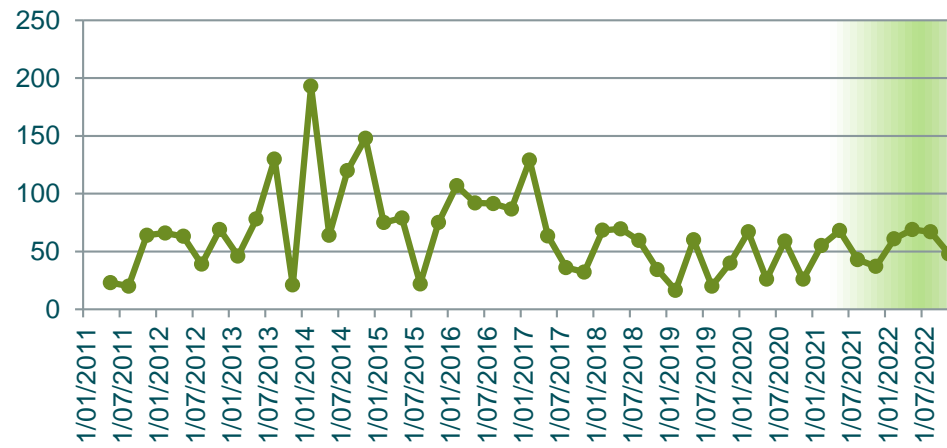
**TKN
mg/L**



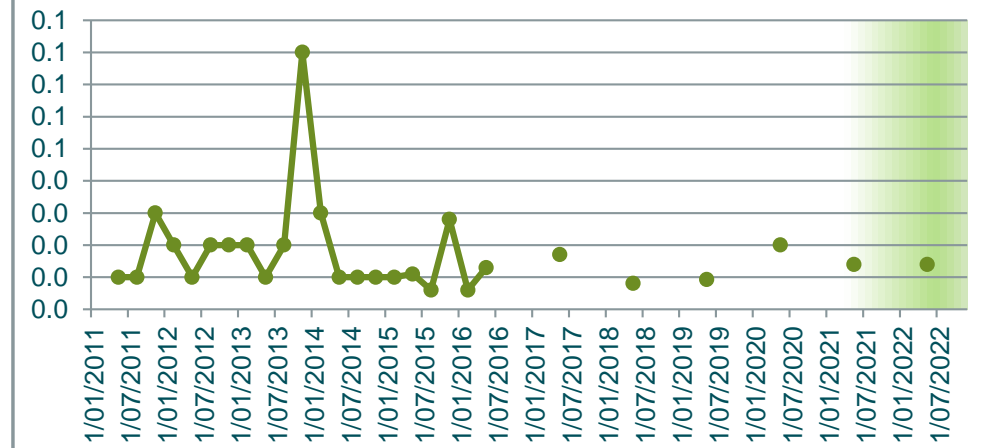
**TOC
mg/L**



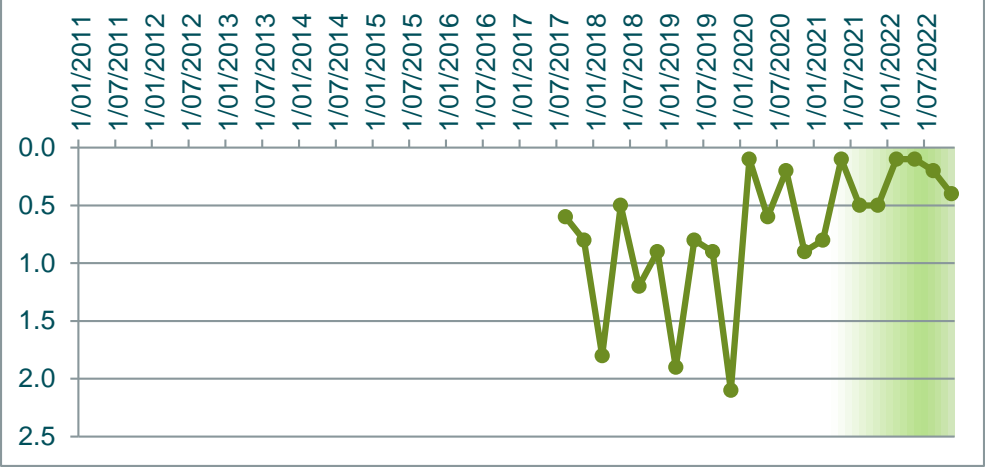
**Total Acidity
mg/L CaCO3**



**Zinc (Total)
mg/L**



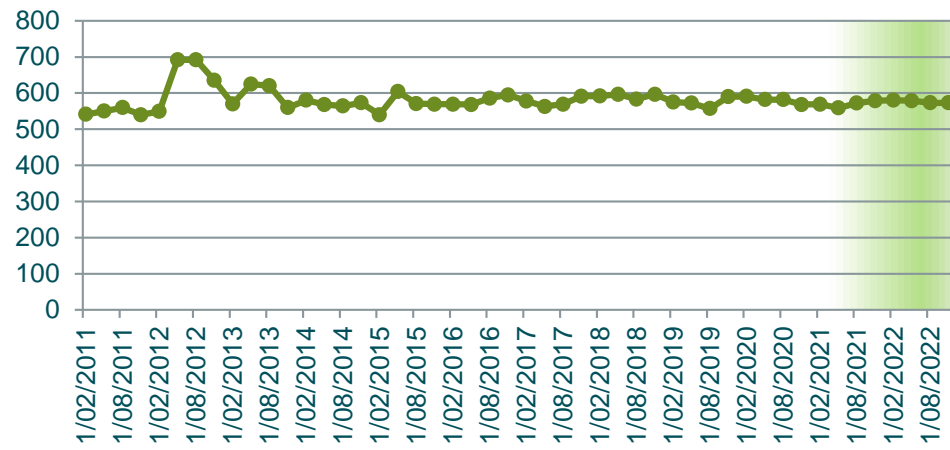
Depth to Groundwater m



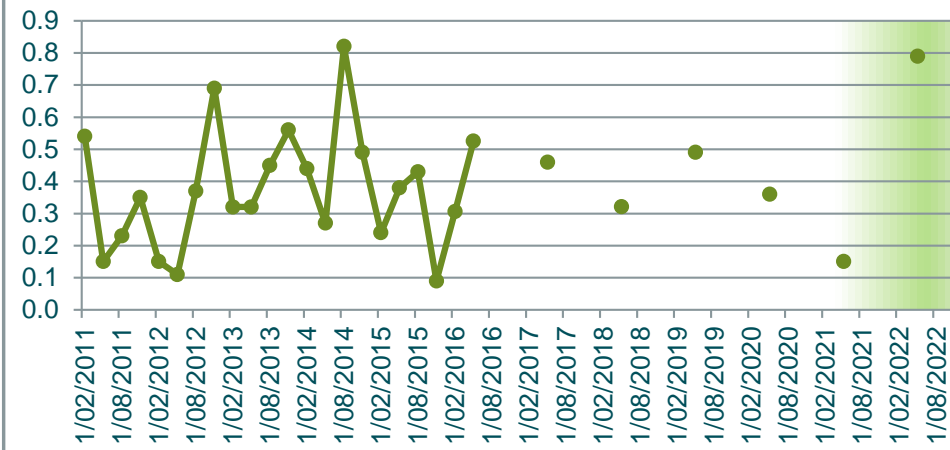
GW22	Alkalinity mg/L as CaCO3	Aluminium (Total) mg/L	Ammonia mg/L	Arsenic (Total) mg/L	Bicarbonate HCO3 mg/L	BOD5 mg/L	Cadmium (Total) mg/L	Calcium (Total) mg/L	Chloride mg/L	Chromium (Total) mg/L	Chromium 3 mg/L	Chromium 6 mg/L	Conductivity µS/cm-1	Copper (Total) mg/L	DO (Membrane Electrode) mg/L	Flouride mg/L	Iron Total mg/L	Lead (Total) mg/L	Magnesium (Total) mg/L	Manganese Total mg/L	Nickel (Total) mg/L	Nitrate N mg/L	Nitrite N mg/L	Nitrogen Oxidised mg/L	Nitrogen Total mg/L	pH pH units	Phenol Alkalinity mg/L as CaCO3	Phosphorus Total mg/L	Potassium Total mg/L	Redox Potential mV	Sodium (Total) mg/L	Sulphate mg/L	Temperature C	TKN mg/L	TOC mg/L	Total Acidity mg/L CaCO3	Zinc (Total) mg/L	Depth to Groundwater m
1/02/2011	541	0.5	0.2	0.0	330	1.0	0.0	118	105	0.0	0.0	0.0	1346	0.0	3.0	0.1	1.0	0.0	11	0.9	0.0	0.1	0.1	0.1	0.2	6.9		0.1	5.0	-12	123	80	22	0.2	1.9	124	0.0	
11/05/2011	550	0.2	0.1	0.0	336	1.0	0.0	136	98	0.0	0.0	0.0	1498	0.0	1.0	0.1	1.1	0.0	14	1.2	0.0	0.1	0.1	0.1	0.2	6.8		0.1	11.0	103	159	91	20	0.2	1.9	74	0.0	
10/08/2011	560	0.2	0.1	0.0	340	1.5	0.0	127	98	0.0	0.0	0.0	1343	0.0	1.1	0.1	1.1	0.0	13	1.0	0.0	0.1	0.1	0.1	0.2	6.8		0.1	6.0	19	170	80	20	0.2	2.2	105	0.0	
9/11/2011	540	0.4	0.2	0.0	329	1.0	0.0	1	110	0.0	0.0	0.0	1416	0.0	1.0	0.2	1.1	0.0	2	1.2	0.0	0.1	0.0	0.1	0.3	6.9		0.0	25.0	20	12	8	22	0.2	1.7	70	0.0	
7/02/2012	549	0.2	0.1	0.0	335	1.2	0.0	138	91	0.0	0.0	0.0	1425	0.0	1.0	0.1	1.0	0.0	13	1.2	0.0	0.0	0.0	0.0	0.2	6.9		0.0	7.0	77	185	89	21	0.2	1.2	92	0.0	
9/05/2012	692	0.1	0.2	0.0	422	1.0	0.0	131	85	0.0	0.0	0.0	1488	0.0	2.7	0.2	1.2	0.0	12	1.1	0.0	0.1	0.0	0.1	0.3	6.7		0.0	6.0	218	146	78	21	0.2	1.5	42	0.0	
7/08/2012	692	0.4	0.2	0.0	422	1.5	0.0	126	68	0.0	0.0	0.0	1447	0.0	3.0	0.2	1.6	0.0	12	1.2	0.0	0.2	0.0	0.2	0.5	6.9		0.1	6.0	-88	141	76	20	0.4	1.6	51	0.1	
14/11/2012	635	0.7	0.3	0.0	387	1.0	0.0	131	96	0.0	0.0	0.0	1418	0.0	2.9	0.2	2.0	0.0	14	1.2	0.0	0.1	0.0	0.1	0.6	6.9		0.1	6.0	-	144	68	21	0.5	1.4	74	0.1	
14/02/2013	570	0.3	0.5	0.0	348	1.2	0.0	142	95	0.0	0.0	0.0	1444	0.0	2.9	0.1	2.4	0.0	14	1.5	0.0	0.1	0.0	0.1	0.8	6.9		0.0	6.0	-81	173	81	21	0.7	1.5	60	0.1	
15/05/2013	625	0.3	0.5	0.0	381	1.2	0.0	137	110	0.0	0.0	0.0	1453	0.0	2.7	0.1	2.8	0.0	13	1.5	0.0	0.1	0.0	0.1	0.9	6.9		0.1	5.0	-80	160	80	20	0.8	1.7	104	0.0	
7/08/2013	620	0.5	0.4	0.0	378	1.0	0.0	141	96	0.0	0.0	0.0	1451	0.0	2.6	0.2	5.0	0.0	14	1.8	0.0	0.1	0.0	0.1	0.8	6.9		0.1	6.0	-94	175	95	20	0.6	2.0	176	0.1	
13/11/2013	560	0.6	0.3	0.0	342	1.2	0.0	145	97	0.0	0.0	0.0	1535	0.0	2.8	0.2	6.3	0.0	16	2.0	0.0	0.1	0.0	0.1	0.6	6.9		0.1	6.0	-76	190	100	21	0.5	2.0	99	0.1	
12/02/2014	580	0.4	0.3	0.0	354	1.2	0.0	127	99	0.0	0.0	0.0	1391	0.0	2.8	0.2	5.7	0.0	14	1.9	0.0	0.1	0.0	0.1	0.8	6.9		0.0	5.0	-85	171	90	21	0.7	2.4	196	0.1	
14/05/2014	568	0.3	0.3	0.0	346	1.0	0.0	122	110	0.0	0.0	0.0	1534	0.0	2.9	0.2	5.4	0.0	14	1.9	0.0	0.1	0.0	0.1	0.6	6.8		0.0	5.0	-69	169	87	20	0.5	2.4	103	0.0	
13/08/2014	564	0.8	0.3	0.0	344	1.8	0.0	146	115	0.0	0.0	0.0	1524	0.0	4.2	0.2	7.1	0.0	16	2.2	0.0	0.1	0.0	0.1	0.7	6.9		0.0	6.0	-70	193	105	20	0.6	144.0	203	0.1	
11/11/2014	573	0.5	0.3	0.0	350	1.8	0.0	138	120	0.0	0.0	0.0	1537	0.0	2.9	0.2	7.4	0.0	16	2.1	0.0	0.0	0.1	0.1	0.7	6.9		0.0	6.0	-48	196	18	21	0.6	1.4	141	0.1	
10/02/2015	540	0.2	0.4	0.0	329	1.0	0.0	115	130	0.0	0.0	0.0	1606	0.0	2.9	0.2	7.1	0.0	14	2.1	0.0	0.1	0.0	0.1	0.8	6.9		0.0	6.0	-48	183	115	21	0.7	2.8	122	0.1	
12/05/2015	604	0.4	0.3	0.0	368	1.5	0.0	144	121	0.0	0.0	0.0	1588	0.0	2.8	0.2	10.0	0.0	16	2.6	0.0	0.0	0.1	0.1	0.7	6.8		0.1	6.0	-63	210	127	20	0.7	2.8	128	0.1	
12/08/2015	571	0.4	0.5	0.0	571	1.8	0.0	139	132	0.0	0.0	0.0	1643	0.0	3.0	0.2	8.3	0.0	16	2.3	0.0	0.0	0.0	0.1	1.1	7.0		0.1	6.4	-63	207	115	20	1.0	2.5	102	0.1	
11/11/2015	569	0.1	0.5	0.0	569	1.0	0.0	133	142	0.0	0.0	0.0	1653	0.0	2.1	0.2	4.5	0.0	17	2.1	0.0	0.0	0.0	0.1	0.9	6.9		0.0	6.3	-45	201	120	21	0.8	3.0	103	0.0	
9/02/2016	569	0.3	0.3	0.0	569	1.2	0.0	135	120	0.0	0.0	0.0	1606	0.0	2.7	0.2	10.8	0.0	14	2.6	0.0	0.0	0.0	0.1	0.8	6.9		0.1	5.4	-75	195	127	21	0.7	2.0	134	0.0	
10/05/2016	568	0.5	0.3	0.0	568	2.4	0.0	141	115	0.0	0.0	0.0	1607	0.0	1.5	0.2	10.9	0.0	14	2.6	0.0	0.1	0.0	0.1	0.8	6.8		0.1	5.3	-45	198	115	21	0.7	2.9	159	0.1	
10/08/2016	586		0.3		586	2.4		137	105				1638		2.7	0.2			13			0.0	0.1	0.1	0.7	6.7		0.0	5.2	-45	200	147	20	0.6	10.7	143		
8/11/2016	595		0.3		595	1.2		140	105				1583		1.7	0.2			13			0.0	0.1	0.1	0.6	6.7		0.0	5.0	-15	203	135	22	0.5	2.9	193		
8/02/2017	578		0.2		578	1.0		136	110				1591		2.3	0.1			12			0.0	0.1	0.1	0.5	6.5		0.0	5.0	40	196	129	21	0.4	2.6	234		
9/05/2017	563	0.5	0.2	0.0	563	1.2	0.0	136	115	0.0	0.0	0.0	1555	0.0	3.0	0.2	8.1	0.0	12	2.2	0.0	0.0	0.1	0.1	0.5	6.6		0.0	5.0	-39	194	146	20	0.4	2.3	152	0.0	
9/08/2017	569		0.1		569	2.4		138	325				1565		3.0	0.2			12			0.1	0.1	0.2	0.4	6.5		0.0	5.0	4	201	118	20	0.2	3.5	161		12.1
8/11/2017	591		0.1		591	1.2		138	96				1561		2.8	0.2			12			0.0	0.1	0.1	0.5	6.6		0.1	5.0	-28	194	118	20	0.4	2.1	175		12.9
14/02/2018	592		0.1		592	3.0		135	95				1537		2.7	0.2			11			0.1	0.1	0.2	0.5	6.7		0.0	<5	-5	192	120	21	0.3	3.4	119		13.0
9/05/2018	597	0.3	0.1	0.0	597	1.5	0.0	135	88	0.0	0.0	0.0	1510	0.0	2.2	0.2	8.1	0.0	11	1.8	0.0	0.0	0.1	0.0	0.3	6.6		0.0	3.9	-44	194	114	21	0.3	2.2	165	0.0	13.0

15/08/2018	583		0.1		583	3.3		143	88				149		2.5	0.2			12			0.0	0.1	0.0	0.4	6.7		0.0	4.2	-7	206	118	20	0.4	3.8	127		12.2
14/11/2018	597		0.2		597	1.2		139	90				147		3.4	0.2			11			0.0	0.1	0.1	0.5	6.8		0.1	4.2	-52	197	116	21	0.5	2.3	136		13.4
13/02/2019	575		0.2		575	1.0		146	110				150		2.6	0.2			11			0.0	0.1	0.0	0.5	6.7		0.0	4.2	-49	199	111	21	0.4	2.3	142		13.5
15/05/2019	572	0.5	0.3	0.0	572	1.5	0.0	142	92	0.0	0.0	0.0	147	0.0	3.0	0.2	8.4	0.0	12	1.9	0.0	0.0	0.1	0.1	0.6	6.7		0.0	4.7	-47	205	116	21	0.5	2.2	140	0.0	14.0
14/08/2019	557		0.2		557	1.0		141	84				146		3.2	0.2			12			0.1	0.0	0.2	0.5	6.8		0.0	4.7	78	196	110	20	0.3	2.5	120		14.0
13/11/2019	590		0.1		590	1.0		138	89				151		2.8	0.2			12			0.0	0.1	0.1	0.4	6.7		0.0	4.4	-20	191	106	21	0.3	2.1	140		14.0
26/02/2020	591		0.1		591	1.0		129	95				148		3.1	0.2			11			0.0	0.1	0.1	0.5	6.7	0.0	0.0	3.9	-32	176	88	21	0.4	2.1	120		13.0
13/05/2020	582	0.4	0.1	0.0	582	1.2	0.0	131	90	0.0	0.0	0.0	150	0.0	2.7	0.3	7.1	0.0	11	1.8	0.0	0.1	0.1	0.1	0.5	6.6	0.0	0.0	3.7	-56	180	97	20	0.3	1.9	130	0.0	12.8
12/08/2020	582		0.1		582	1.8		132	80				143		3.2	0.3			11			0.0	0.1	0.1	0.5	6.7	0.0	0.1	3.8	-40	179	92	20	0.4	2.0	130		11.0
11/11/2020	568		0.2		568	2.4		126	90				144		3.1	0.3			11			0.2	0.0	0.2	0.6	6.6	0.0	0.0	4.0	-38	181	90	21	0.4	2.2	85		13.6
10/02/2021	569		0.1		569	1.0		130	82				144		3.2	0.3			11			0.0	0.1	0.1	0.3	6.4	0.0	0.0	3.7	-23	179	89	21	0.3	2.0	99		13.0
12/05/2021	559	0.2	0.1	0.0	559	2.1	0.0	129	120	0.0	0.0	0.0	140	0.0	2.4	0.3	2.6	0.0	12	1.8	0.0	0.3	0.1	0.3	0.6	6.7	0.0	0.0	4.5	2	181	95	21	0.3	2.7	100	0.0	11.5
11/08/2021	572		0.1		572	4.2		134	90				143		2.9	0.3			12			0.0	0.0	0.0	0.4	6.7	0.0	0.0	4.6	-34	179	86	20	0.4	4.0	120		12.4
9/11/2021	579		0.1		579	1.0		134	94				144		2.5	0.3			12			0.1	0.1	0.2	0.5	6.6	0.0	0.1	4.2	-27	179	83	21	0.3	2.3	110		12.5
9/02/2022	580		0.1		580	1.8		128	120				143		3.0	0.2			11			0.3	0.1	0.3	0.7	6.6	0.0	0.0	4.1	-23	170	79	21	0.4	2.4	160		12.1
11/05/2022	579	0.8	0.1	0.0	579	1.8	0.0	129	110	0.0	0.0	0.0	142	0.0	3.5	0.3	4.5	0.0	12	1.3	0.0	0.6	0.0	0.6	1.1	6.7	0.0	0.0	4.1	-34	173	81	20	0.5	2.9	120	0.1	11.0
10/08/2022	573		0.1		573	1.0		134	92				141		2.8	0.3			12			0.0	0.0	0.1	0.3	6.7	0.0	0.0	4.3	-27	177	80	20	0.3	1.9	150		11.0
9/11/2022	573		0.1		573	1.8		129	100				145		2.6	0.3			11			0.0	0.1	0.1	0.3	6.6	0.0	0.1	4.4	-33	169	77	21	0.2	2.3	140		14.4
2022 Min	573	1	0	0	573	1	0	128	92	0	0	0	141	0	3	0	5	0	11	1	0	0	0	0	0	7	0	0	4	-34	169	77	20	0	2	120	0	11
2022 Max	580	1	0	0	580	2	0	134	120	0	0	0	145	0	4	0	5	0	12	1	0	1	0	1	1	7	0	0	4	-23	177	81	21	1	3	160	0	14
2022 Mean	576	1	0	0	576	2	0	130	106	0	0	0	143	0	3	0	5	0	12	1	0	0	0	0	1	7	0	0	4	-29	172	79	20	0	2	143	0	12
Long-term Average	581	0	0	0	495	2	0	132	106	0	0	0	149	0	3	0	5	0	13	2	0	0	0	0	1	7	0	0	6	-27	179	98	21	0	5	127	0	13

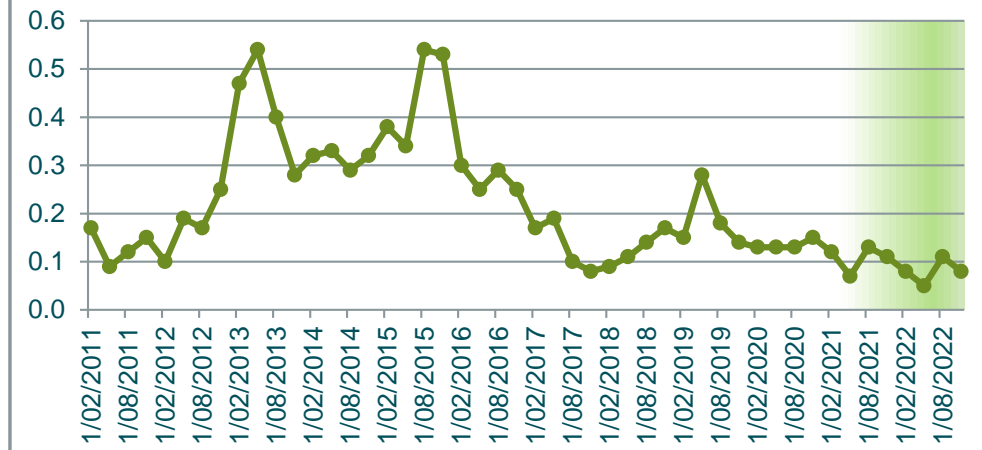
**Alkalinity
mg/L as CaCO3**



**Aluminium (Total)
mg/L**



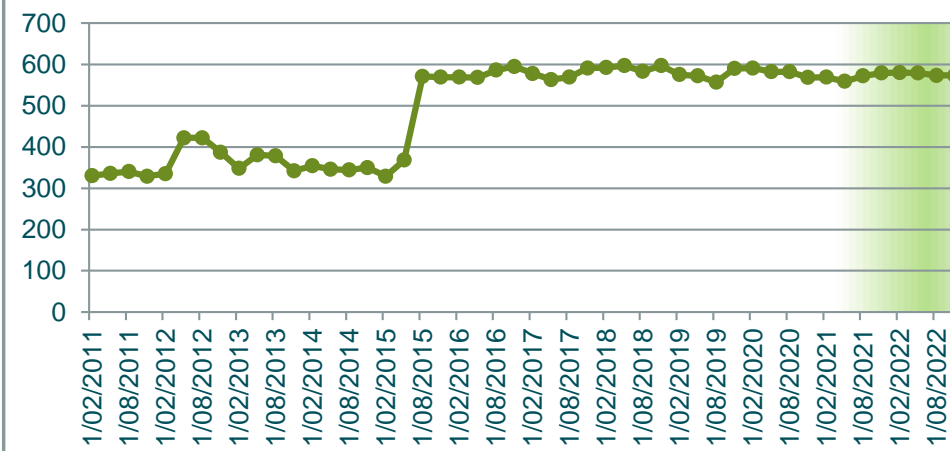
**Ammonia
mg/L**



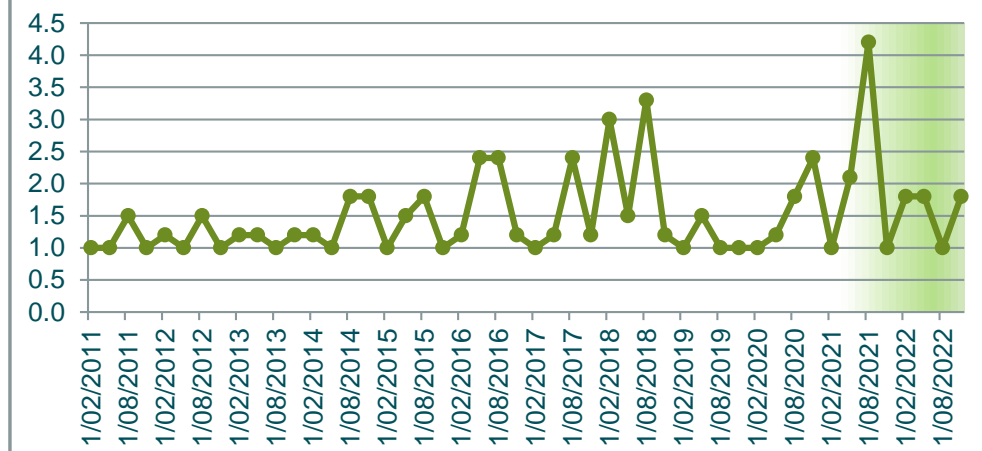
**Arsenic (Total)
mg/L**



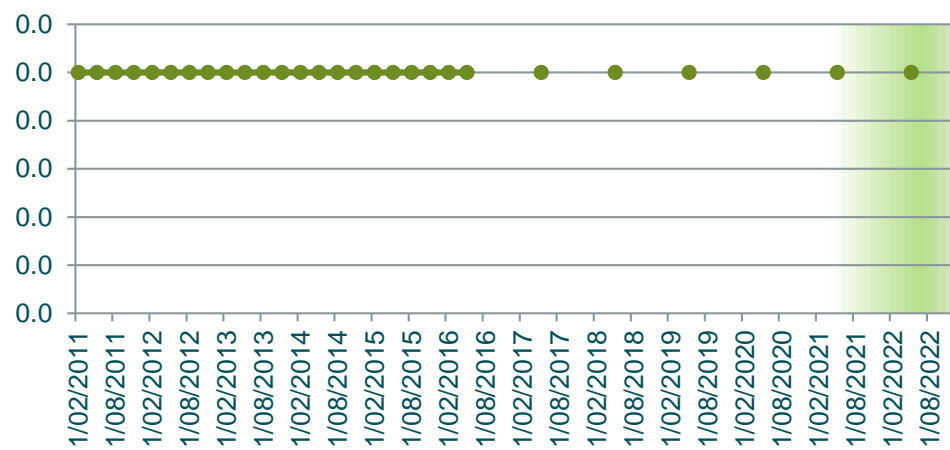
**Bicarbonate HCO3
mg/L**



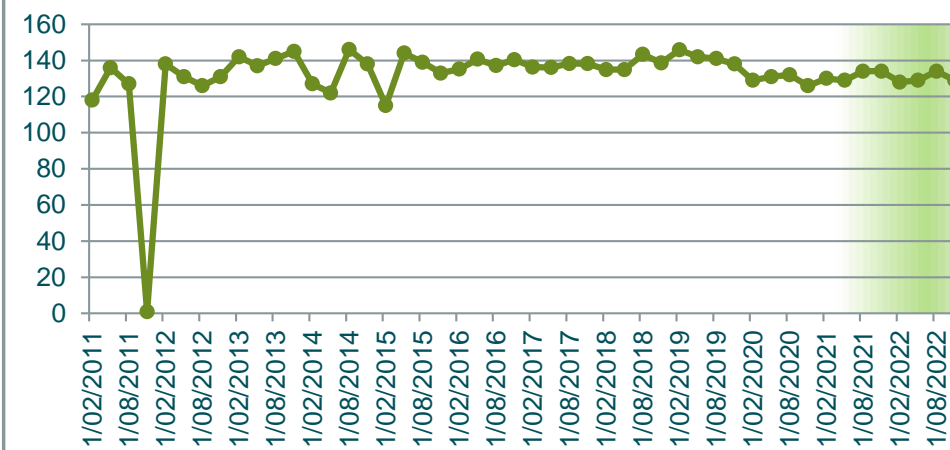
**BOD5
mg/L**



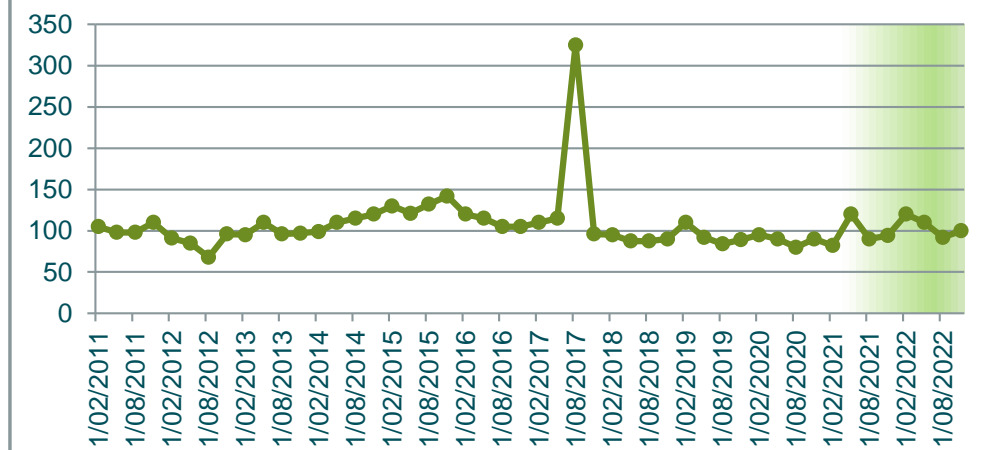
**Cadmium (Total)
mg/L**



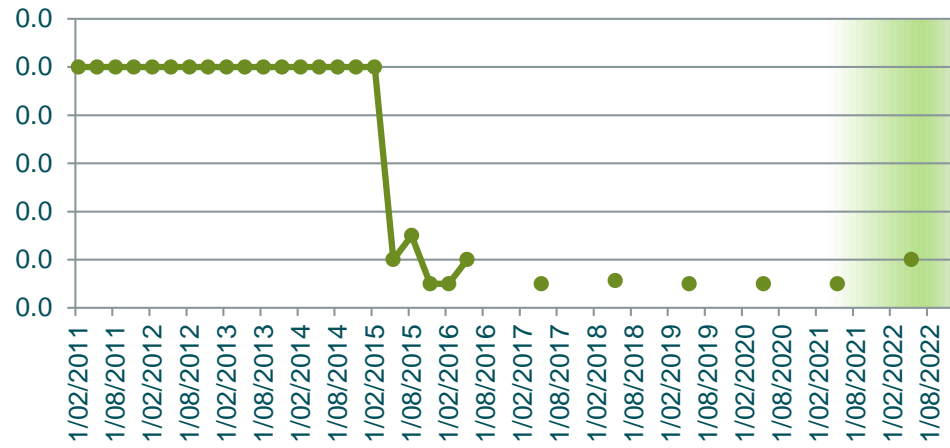
**Calcium (Total)
mg/L**



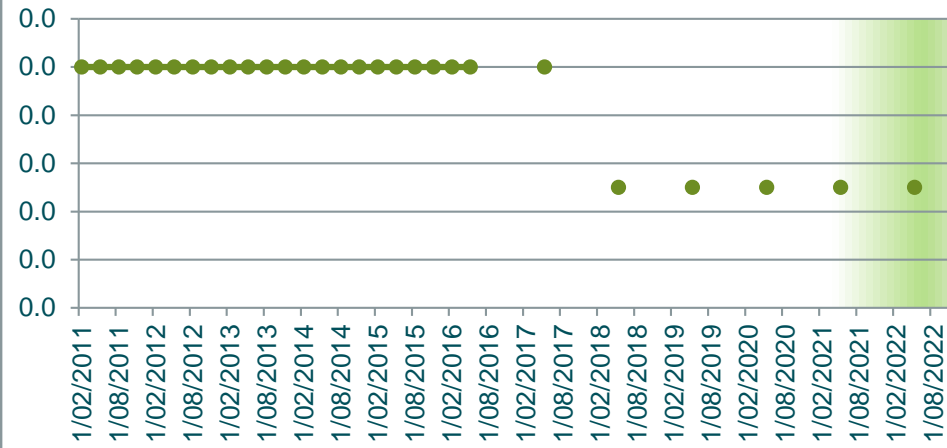
**Chloride
mg/L**



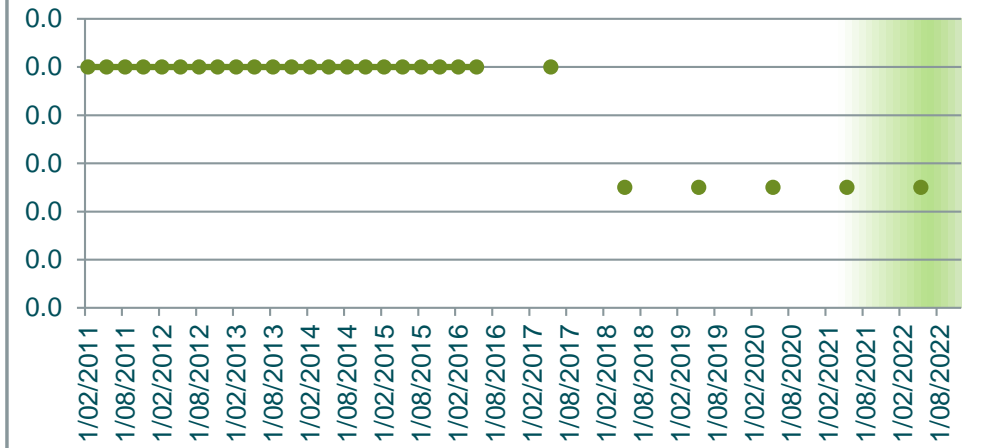
Chromium (Total) mg/L



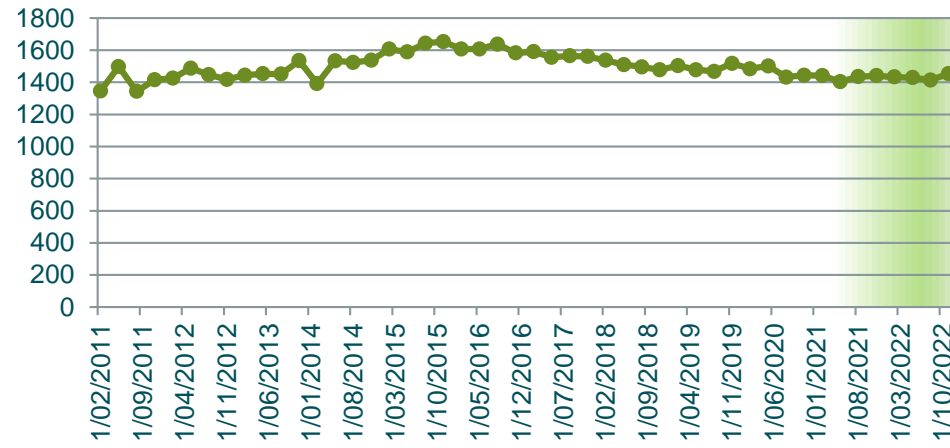
Chromium 3 mg/L



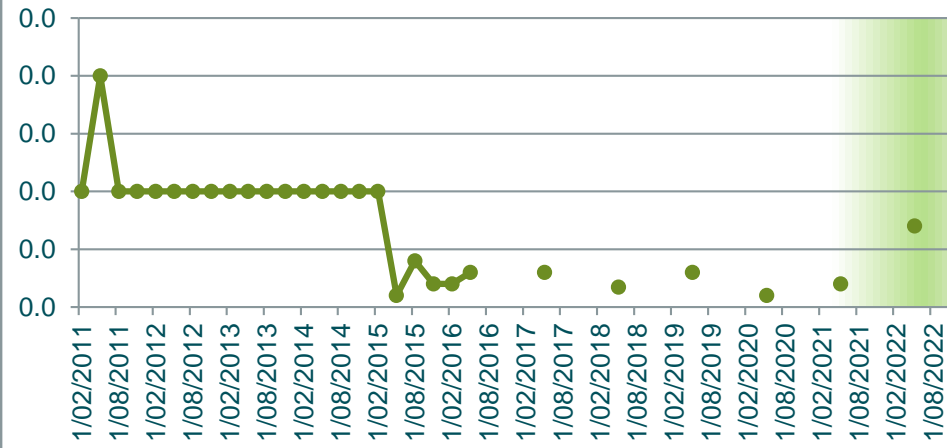
Chromium 6 mg/L



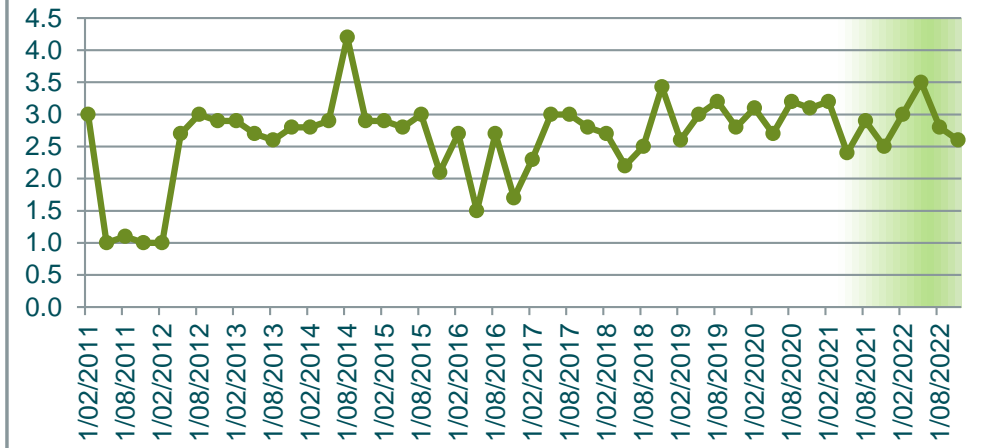
Conductivity µScm-1



Copper (Total) mg/L



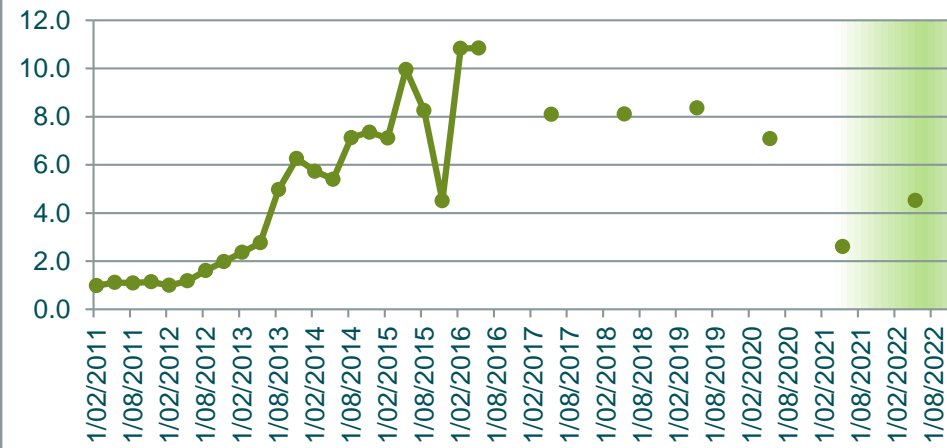
DO (Membrane Electrode) mg/L



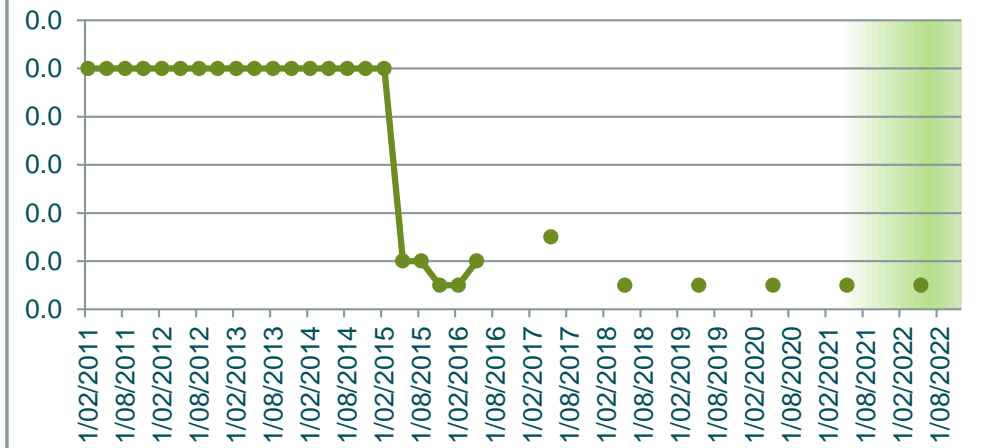
Flouride mg/L



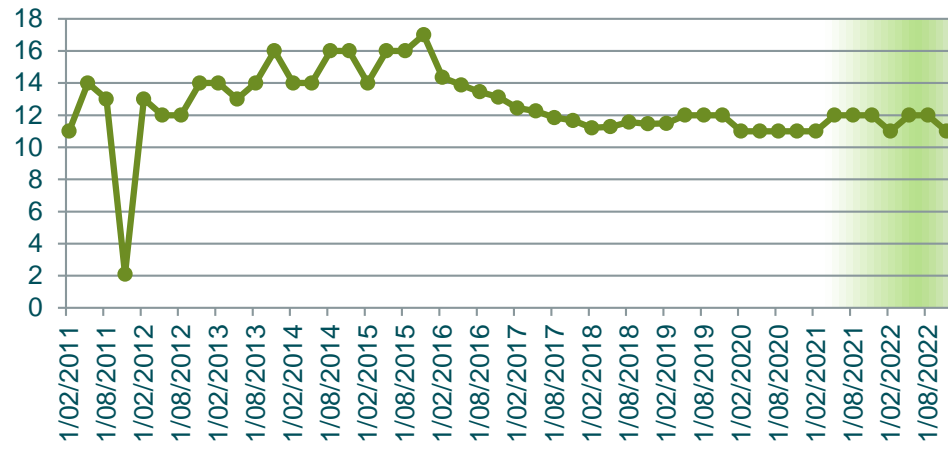
Iron Total mg/L



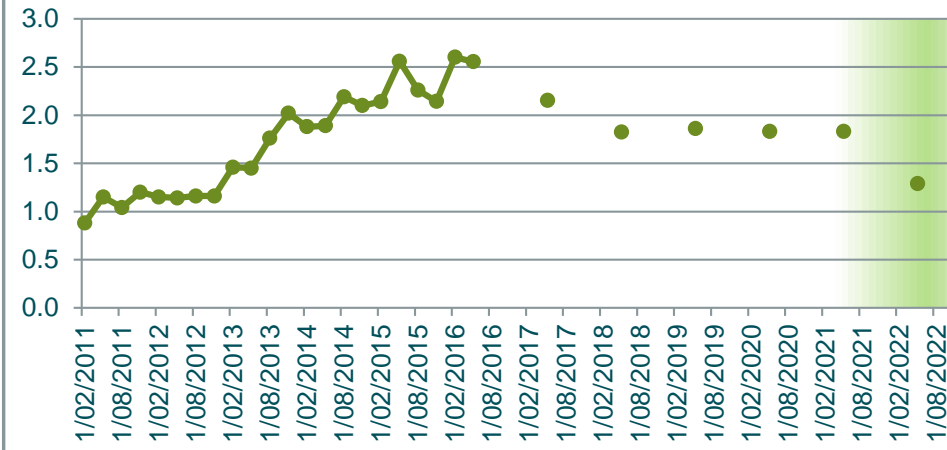
Lead (Total) mg/L



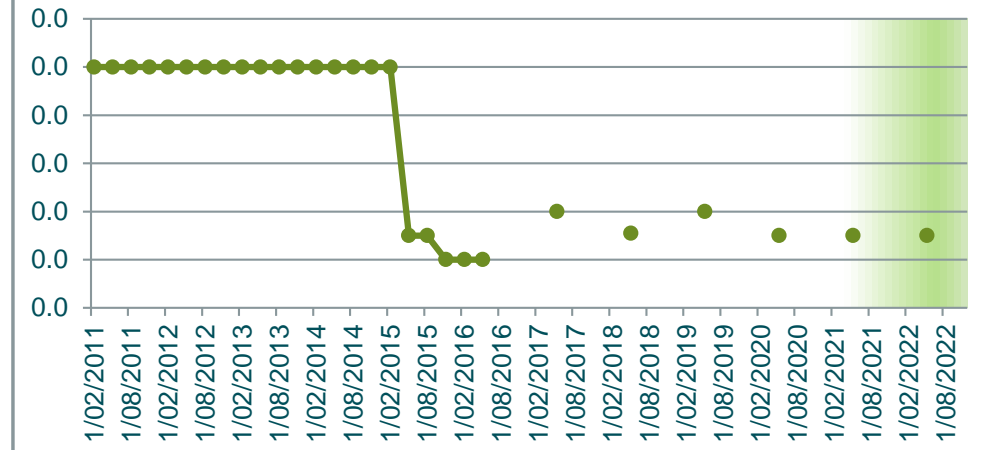
Magnesium (Total) mg/L



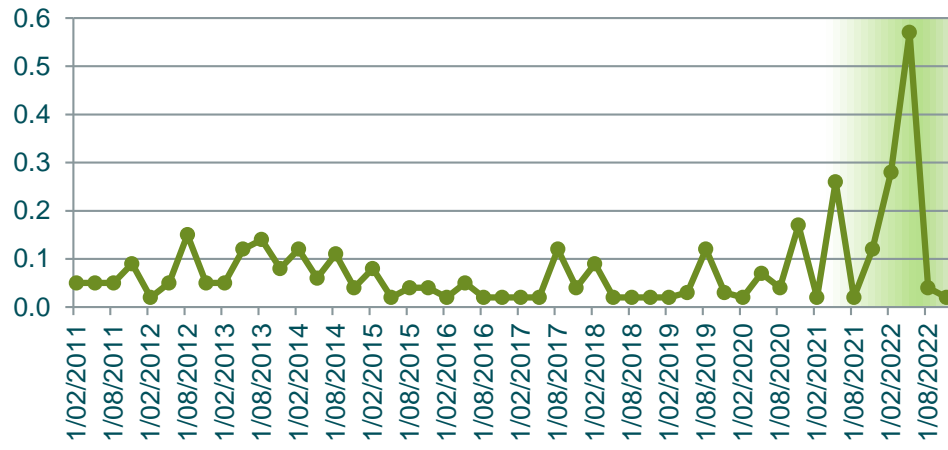
Manganese Total mg/L



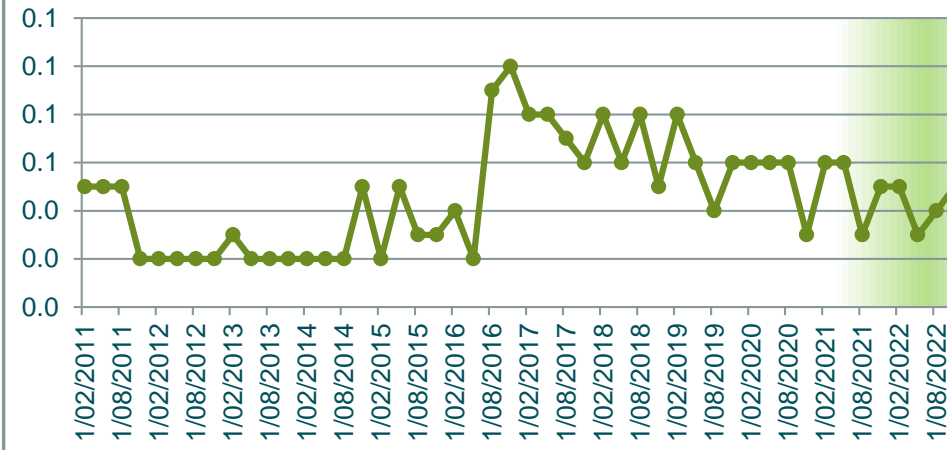
Nickel (Total) mg/L



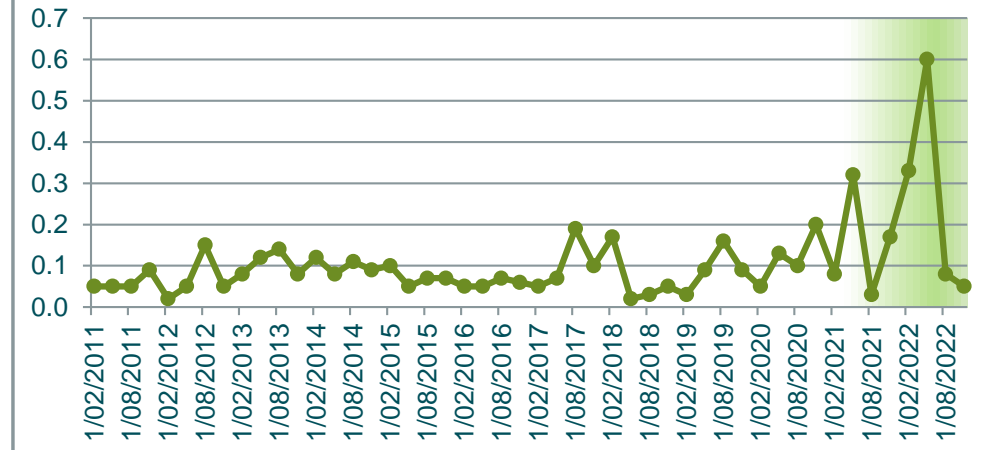
Nitrate N mg/L



Nitrite N mg/L



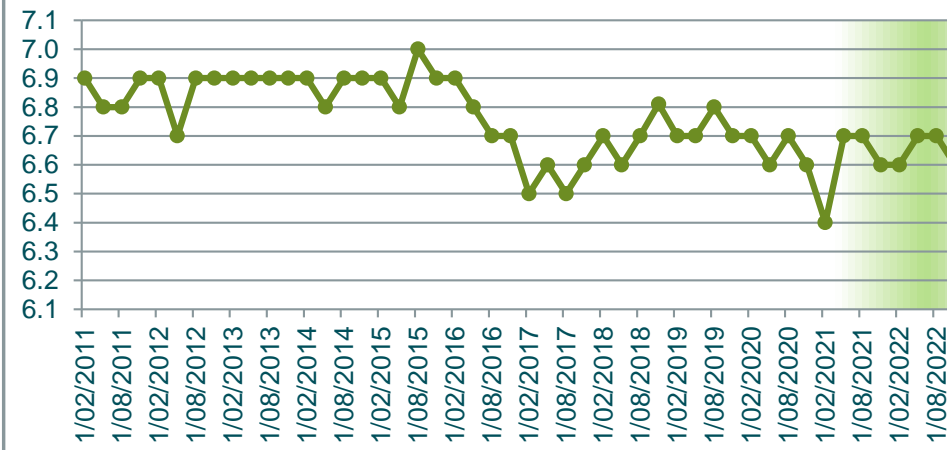
Nitrogen Oxidised mg/L



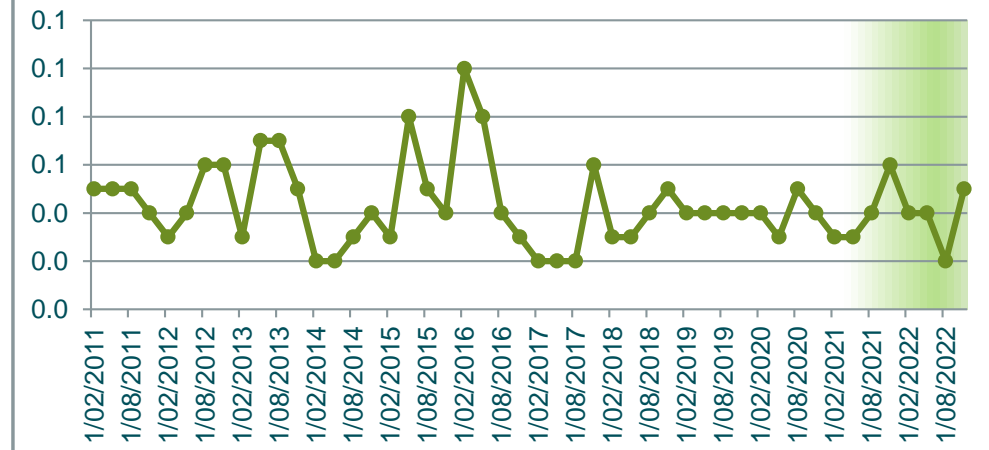
Nitrogen Total mg/L



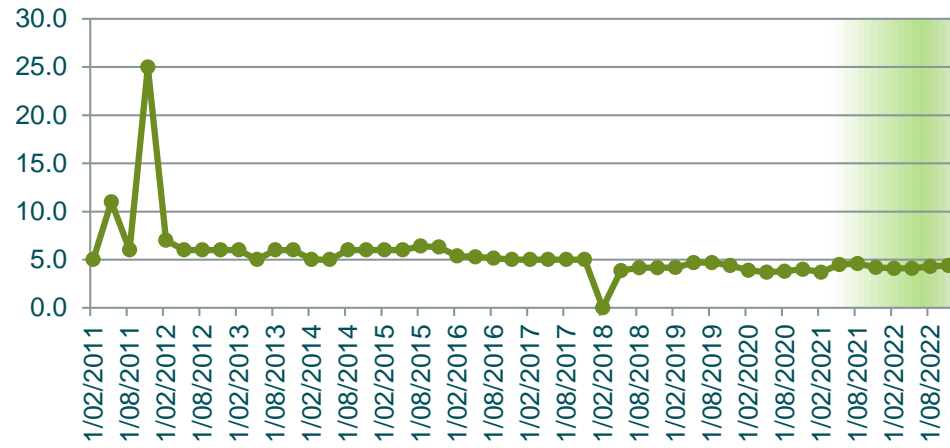
pH pH units



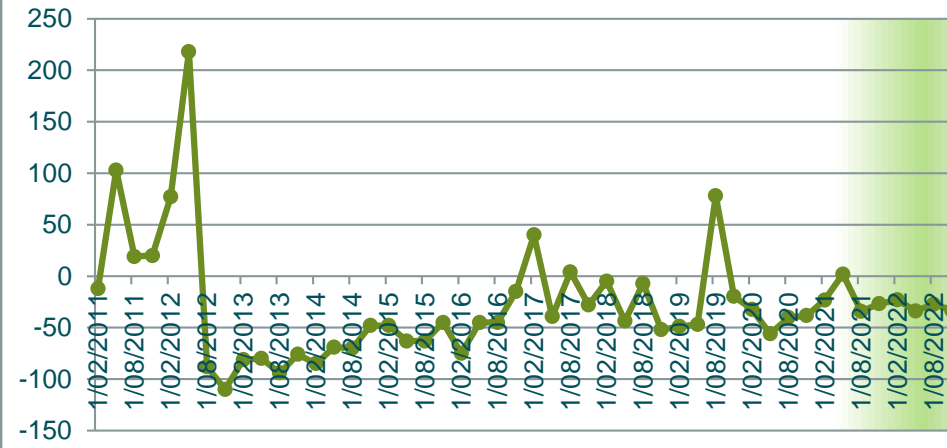
Phosphorus Total mg/L



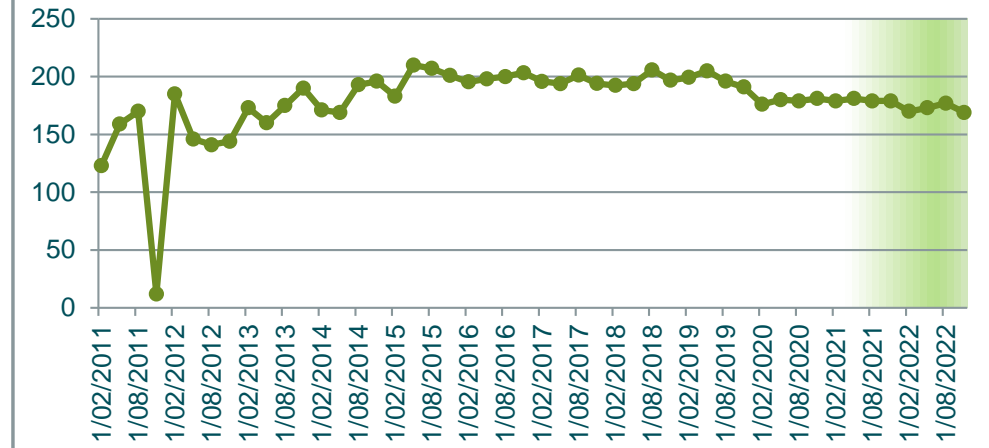
**Potassium Total
mg/L**



**Redox Potential
mV**



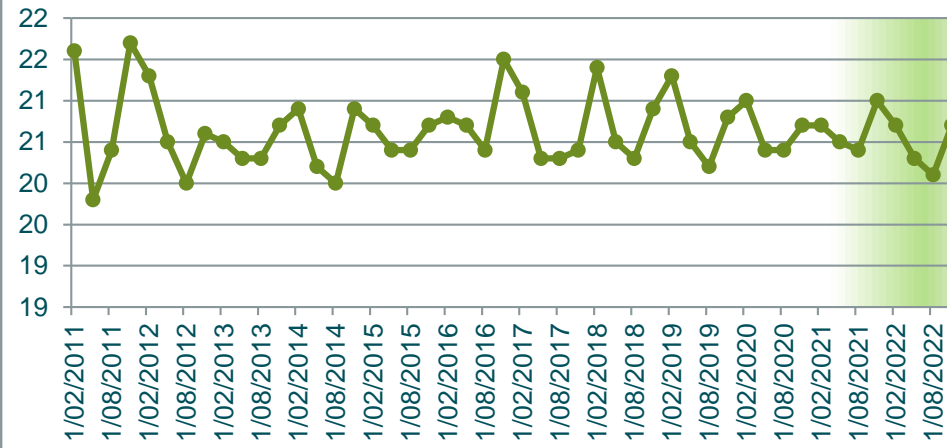
**Sodium (Total)
mg/L**



**Sulphate
mg/L**



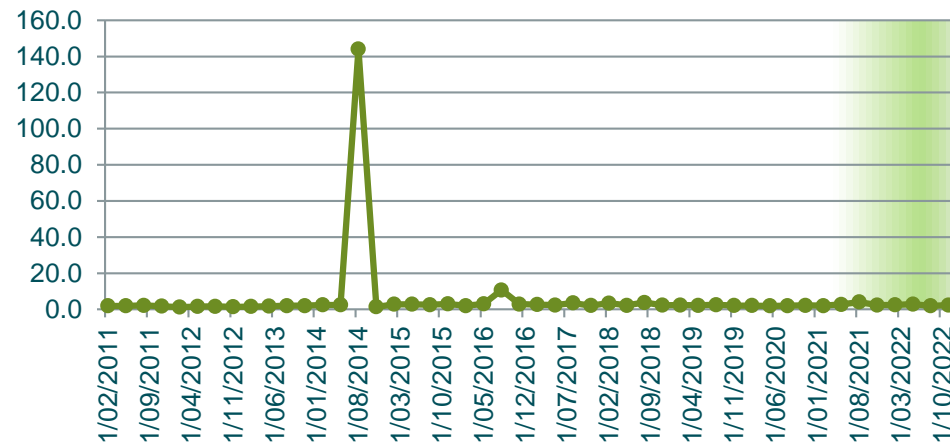
**Temperature
C**



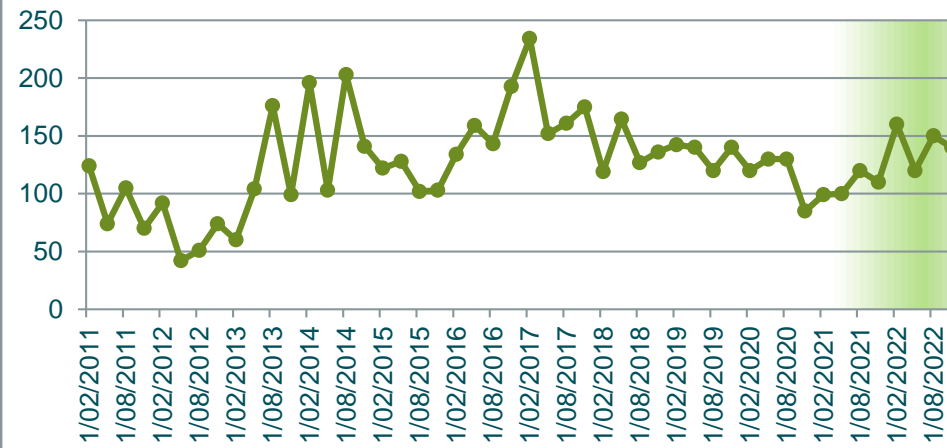
**TKN
mg/L**



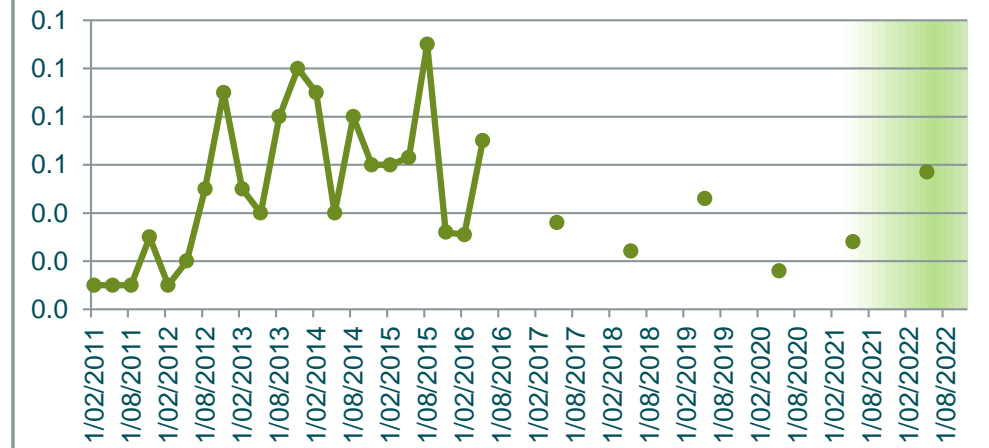
**TOC
mg/L**



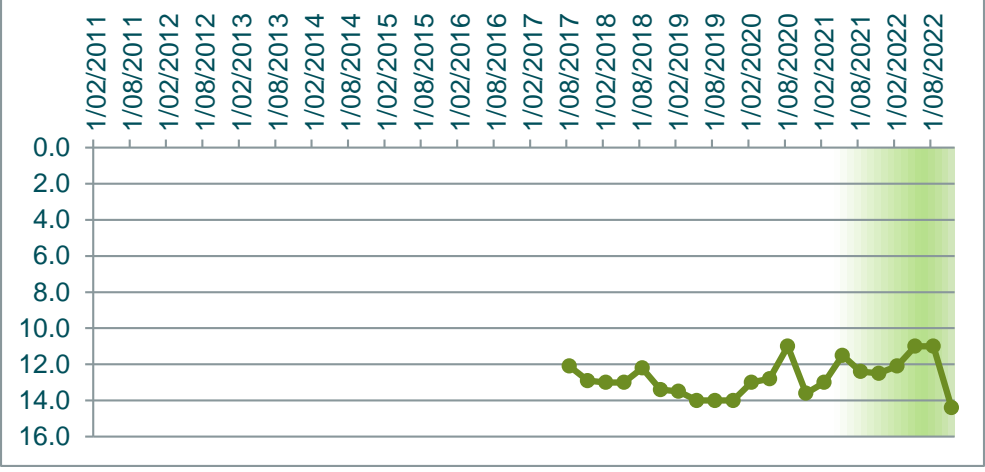
**Total Acidity
mg/L CaCO3**



**Zinc (Total)
mg/L**



Depth to Groundwater m

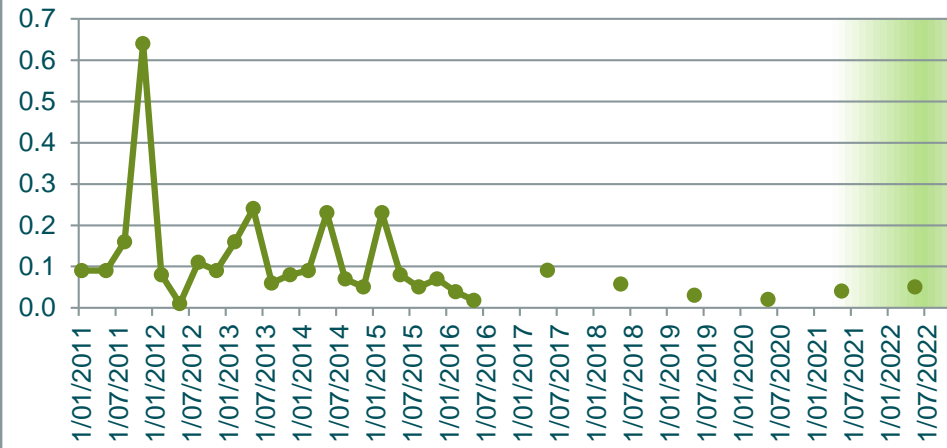


14/08/2018	107		0.0		107	1		24	103				567		1.6	0.1			13			0.0	0.0	0.0	0.2	6.5		0.1	2.9	325	73	20	20	0.2	1.5	39		3.6
13/11/2018	90		0.0		90	24		22	82				488		2.4	0.1			11			0.0	0.0	0.0	0.2	6.5		0.1	2.5	49	61	18	21	0.2	14.2	38		2.3
12/02/2019	90		0.0		90	6		19	82				479		1.5	0.1			11			0.0	0.0	0.0	0.1	6.4	0.0	0.1	2.3	26	61	19	23	0.1	3.5	49		4.1
14/05/2019	107	0.0	0.0	0.0	107	4	0.0	24	95	0.0	0.0	0.0	557	0.0	2.5	0.1	2.8	0.0	13	1.1	0.0	0.0	0.0	0.0	0.1	6.4	0.0	0.0	3.0	-3	72	22	21	0.1	1.4	51	0.0	3.2
13/08/2019	105		0.0		105	2		23	94				562		3.0	0.1			13			0.0	0.0	0.0	0.1	6.5	0.0	0.0	2.9	186	69	22	20	0.1	1.3	41		3.3
12/11/2019	97		0.0		97	1		24	120				659		2.7	0.1			14			0.0	0.0	0.0	0.2	6.4	0.0	0.1	3.0	267	81	28	21	0.2	1.6	42		4.6
25/02/2020	86		0.0		86	2		21	100				568		2.4	0.1			11			0.0	0.0	0.0	0.1	6.3	0.0	0.1	2.7	23	67	23	22	0.1	2.0	51		2.7
12/05/2020	100	0.0	0.0	0.0	100	3	0.0	21	100	0.0	0.0	0.0	605	0.0	1.4	0.1	3.5	0.0	12	1.4	0.0	0.0	0.0	0.0	0.1	6.2	0.0	0.1	2.8	22	69	24	20	0.1	0.9	60	0.0	3.3
11/08/2020	92		0.0		92	1		22	120				618		4.3	0.1			13			0.0	0.0	0.0	0.1	6.3	0.0	0.0	2.9	121	77	26	19	0.1	1.3	39		2.7
10/11/2020	101		0.0		101	1		21	110				605		4.1	0.1			13			0.0	0.0	0.0	0.2	6.4	0.0	0.1	2.9	90	71	23	20	0.2	3.2	32		3.2
9/02/2021	102		0.0		102	3		21	120				626		2.6	0.1			13			0.0	0.0	0.0	0.1	6.1	0.0	0.0	2.8	34	73	24	21	0.1	1.7	51		2.9
11/05/2021	90	0.0	0.0	0.0	90	8	0.0	20	110	0.0	0.0	0.0	600	0.0	4.6	0.1	4.1	0.0	13	0.4	0.0	0.0	0.0	0.0	0.2	6.6	0.0	0.1	3.0	39	76	26	21	0.2	6.0	28	0.1	2.5
10/08/2021	97		0.0		97	1		21	100				595		2.8	0.1			13			0.0	0.0	0.0	0.1	6.2	0.0	0.0	3.1	128	72	23	20	0.1	1.1	44		2.8
8/11/2021	104		0.0		104	1		21	130				626		6.3	0.1			13			0.0	0.0	0.0	0.1	6.4	0.0	0.1	3.1	58	75	23	20	0.1	1.3	35		2.9
8/02/2022	81		0.0		81	5		21	150				676		2.3	0.1			14			0.0	0.0	0.0	0.1	6.2	0.0	0.1	2.8	34	79	28	21	0.1	1.6	59		2.6
10/05/2022	92	0.1	0.0	0.0	92	2	0.0	23	160	0.0	0.0	0.0	750	0.0	4.4	0.1	3.6	0.0	16	1.3	0.0	0.0	0.0	0.0	0.1	6.4	0.0	0.1	3.2	-7	89	32	21	0.1	1.0	42	0.0	2.4
9/08/2022	89		0.0		89	1		23	150				720		4.3	0.1			15			0.0	0.0	0.0	0.1	6.5	0.0	0.0	3.3	62	88	31	20	0.1	1.2	33		2.7
8/11/2022	92		0.0		92	3		24	160				759		2.1	0.1			15			0.0	0.0	0.0	0.2	6.4	0.0	0.1	3.5	72	88	31	19	0.2	2.1	46		2.8
2022 Min	81	0.1	0.0	0.0	81	1	0.0	21	150	0.0	0.0	0.0	676	0.0	2.1	0.1	3.6	0.0	14	1.3	0.0	0.0	0.0	0.0	0.1	6.2	0.0	0.0	2.8	-7	79	28	19	0.1	1.0	33	0.0	2.4
2022 Max	92	0.1	0.0	0.0	92	5	0.0	24	160	0.0	0.0	0.0	759	0.0	4.4	0.1	3.6	0.0	16	1.3	0.0	0.0	0.0	0.0	0.2	6.5	0.0	0.1	3.5	72	89	32	21	0.2	2.1	59	0.0	2.8
2022 Mean	89	0.1	0.0	0.0	89	3	0.0	23	155	0.0	0.0	0.0	726	0.0	3.3	0.1	3.6	0.0	15	1.3	0.0	0.0	0.0	0.0	0.1	6.4	0.0	0.1	3.2	40	86	31	20	0.1	1.5	45	0.0	2.6
Long-term Average	111	0.1	0.0	0.0	93	4	0.0	23	128	0.0	0.0	0.0	694	0.0	2.4	0.1	3.7	0.0	14	1.3	0.0	0.0	0.0	0.0	0.1	6.4	0.0	0.1	4.4	61	89	28	21	0.1	2.6	58	0.0	3.1

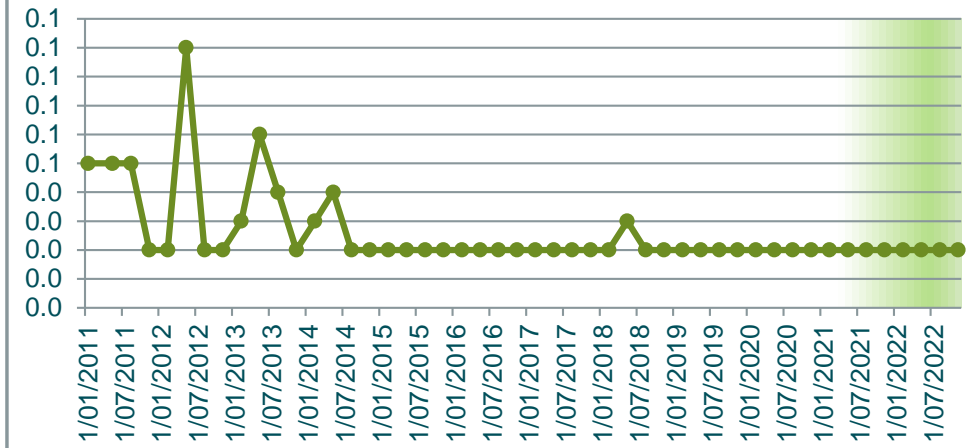
Alkalinity
mg/L as CaCO₃



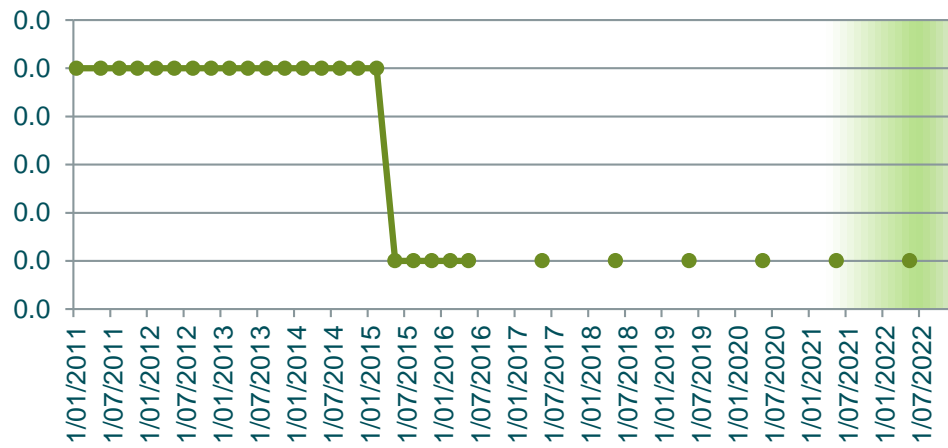
Aluminium (Total)
mg/L



Ammonia
mg/L



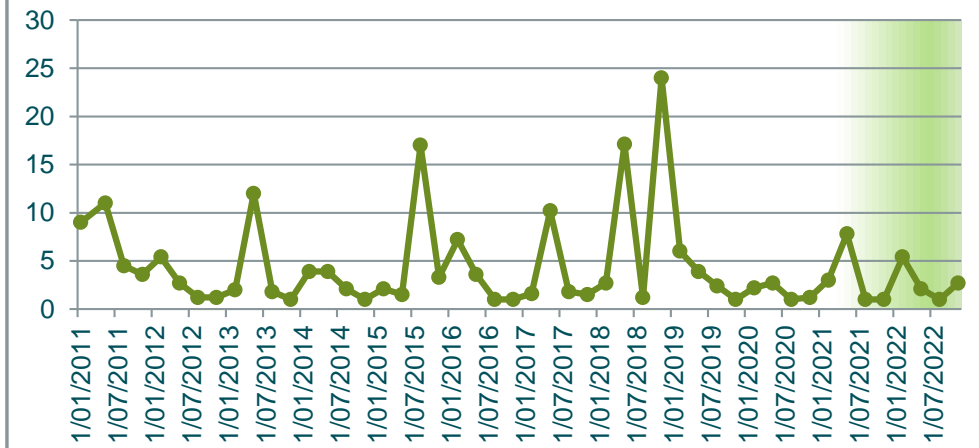
Arsenic (Total)
mg/L



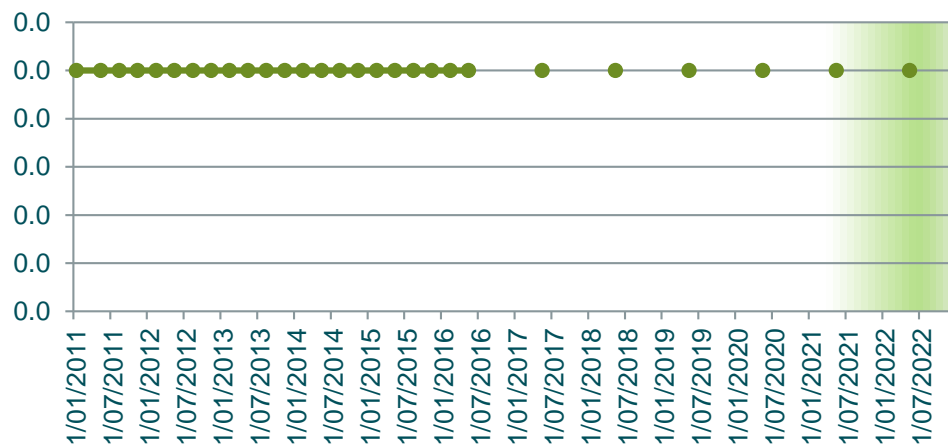
Bicarbonate HCO₃
mg/L



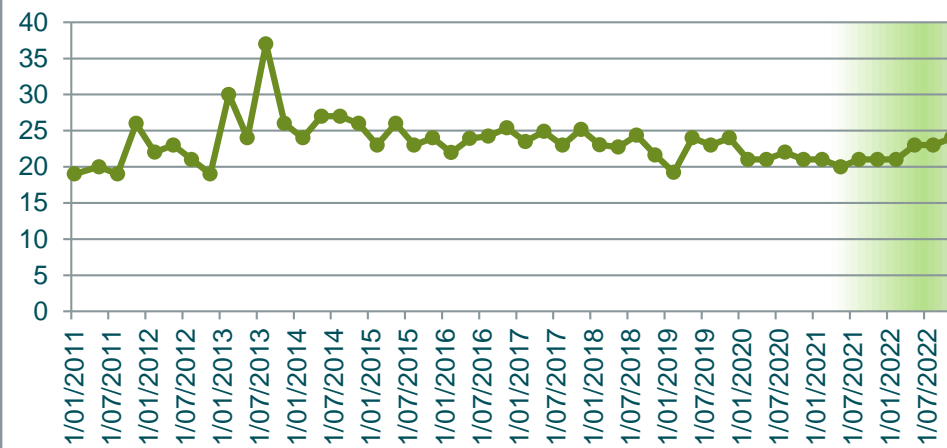
BOD₅
mg/L



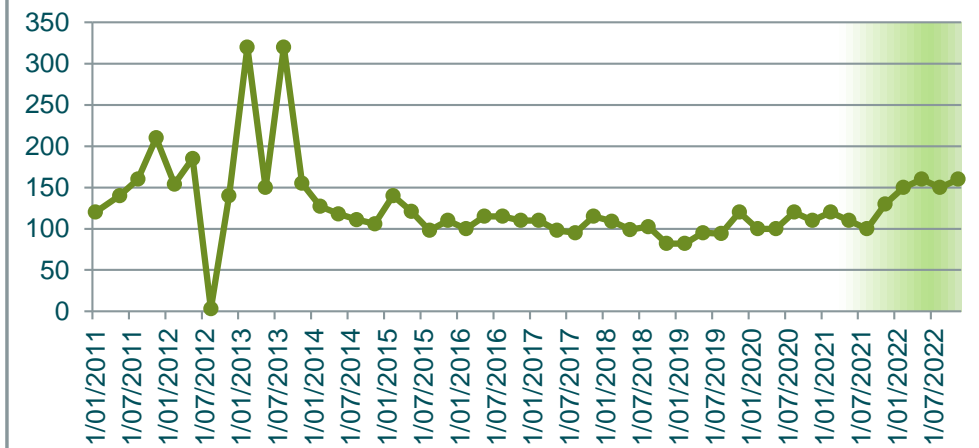
Cadmium (Total)
mg/L



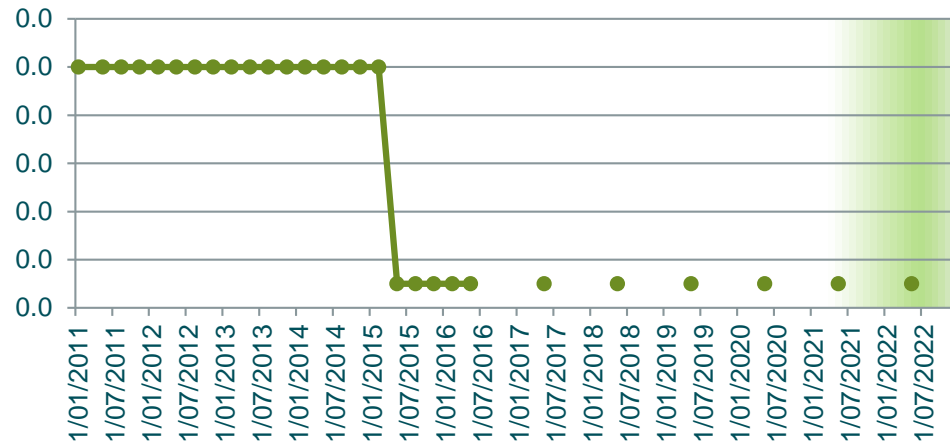
Calcium (Total)
mg/L



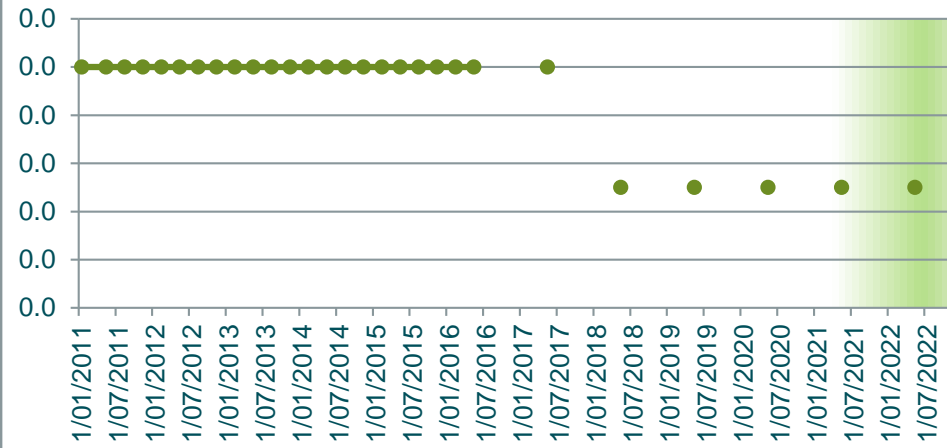
Chloride
mg/L



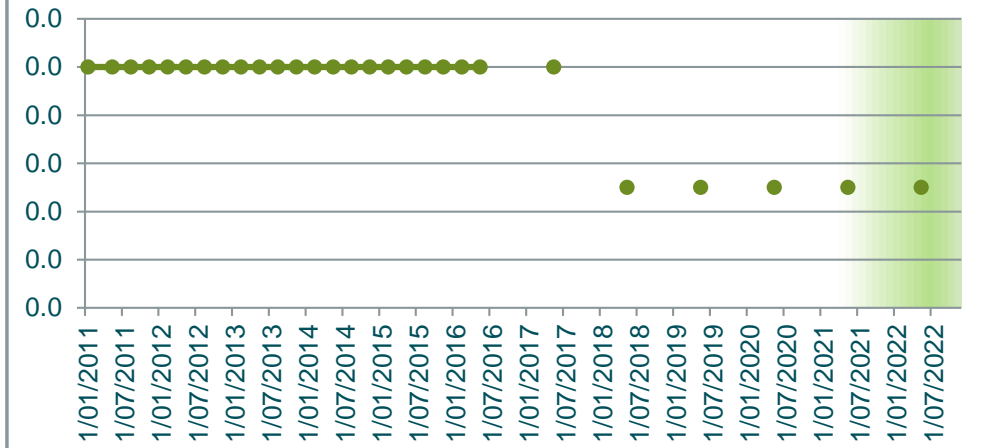
Chromium (Total) mg/L



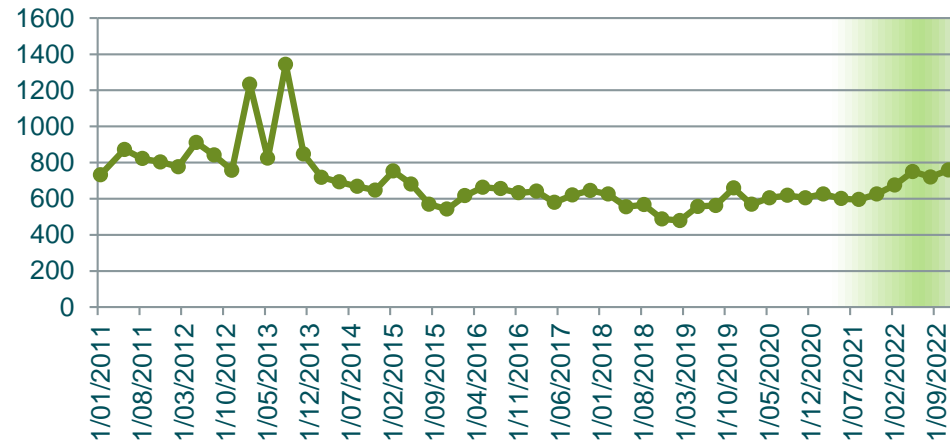
Chromium 3 mg/L



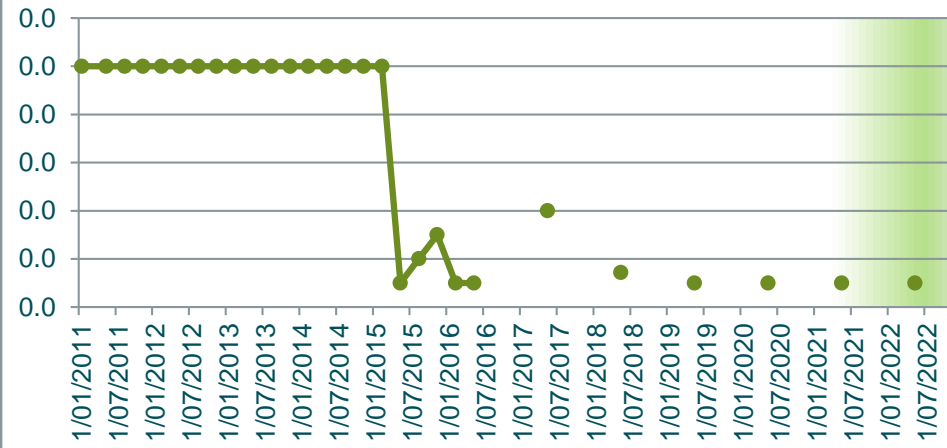
Chromium 6 mg/L



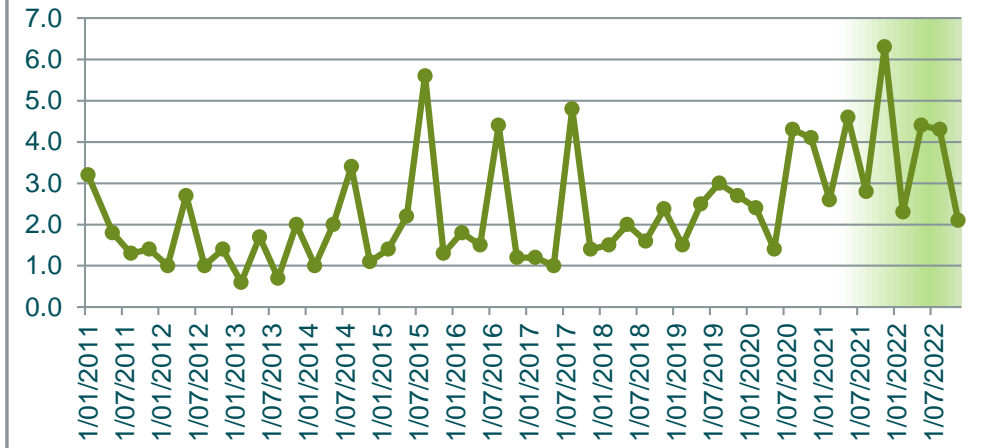
Conductivity µScm-1



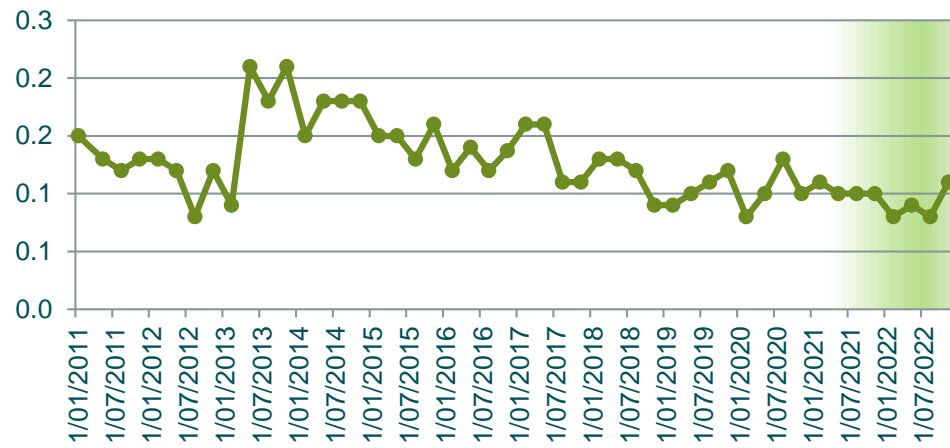
Copper (Total) mg/L



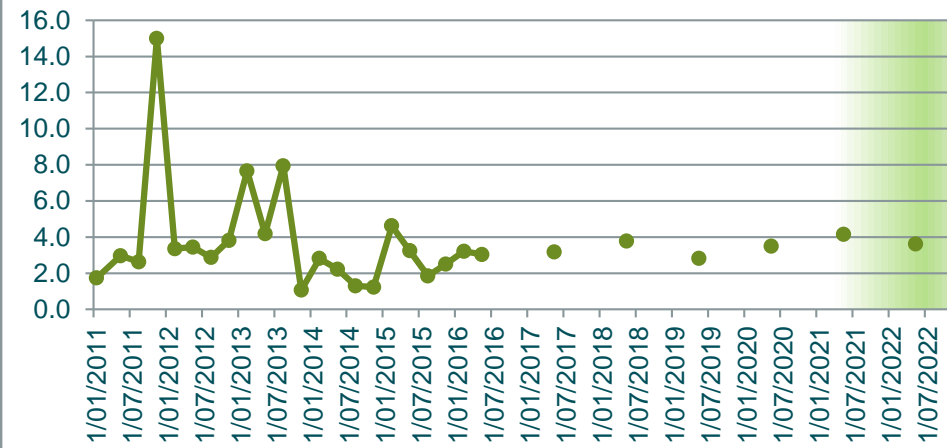
DO (Membrane Electrode) mg/L



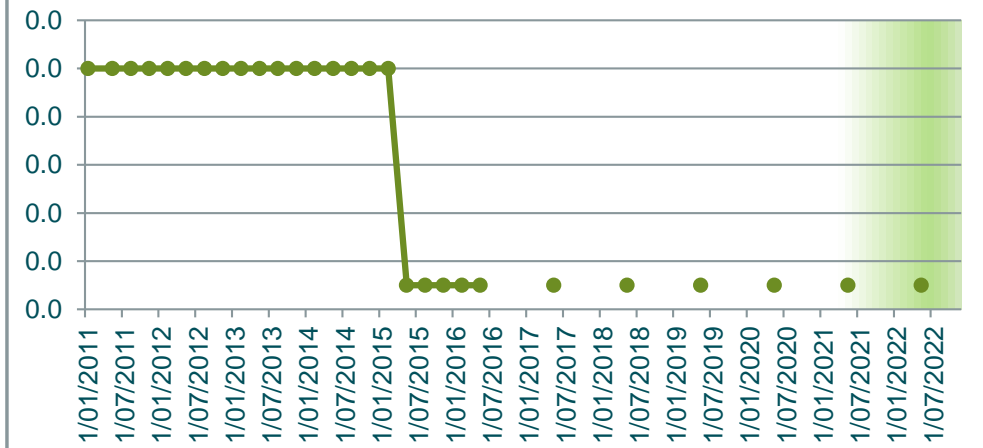
Flouride mg/L



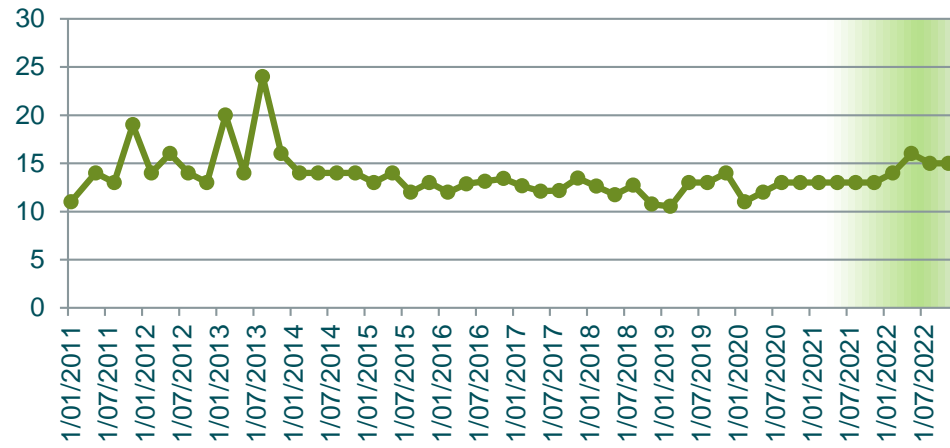
Iron Total mg/L



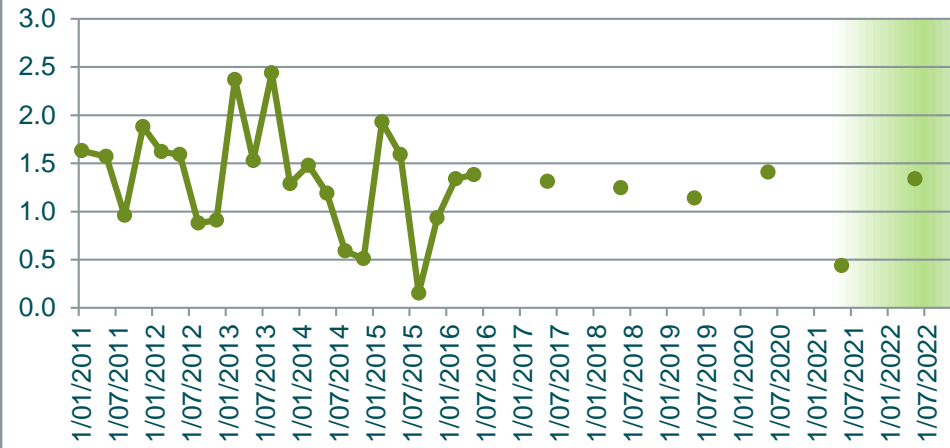
Lead (Total) mg/L



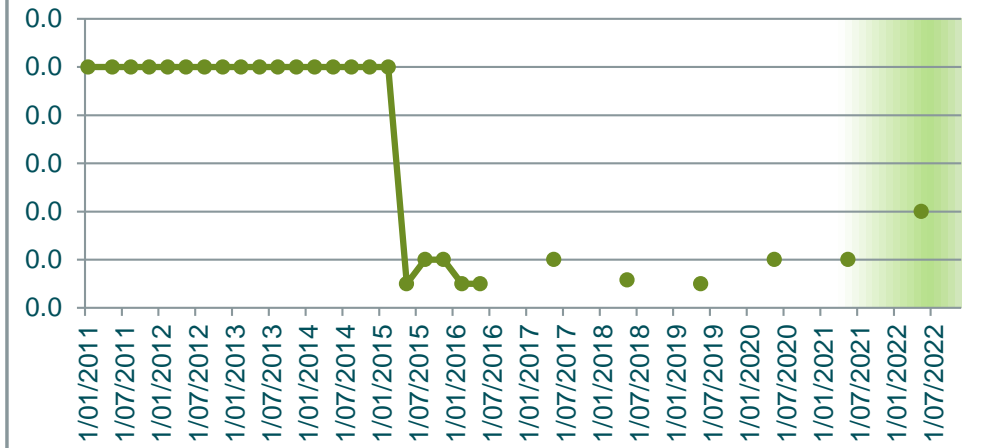
Magnesium (Total) mg/L



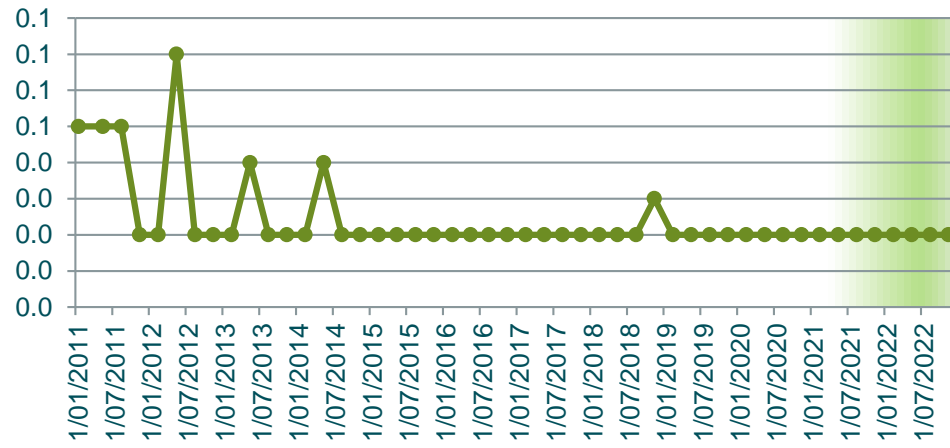
Manganese Total mg/L



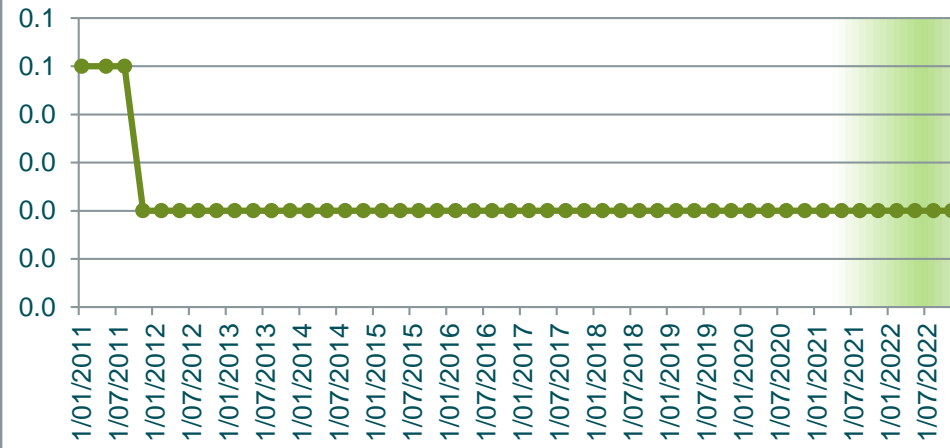
Nickel (Total) mg/L



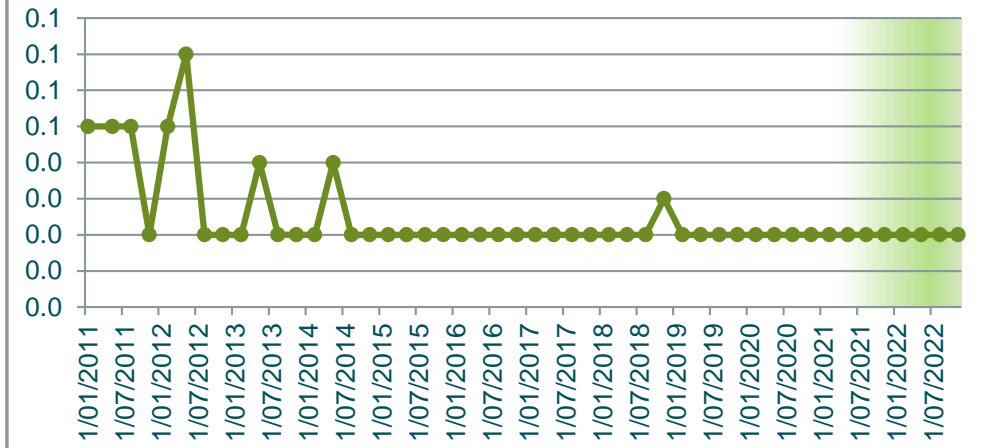
Nitrate N mg/L



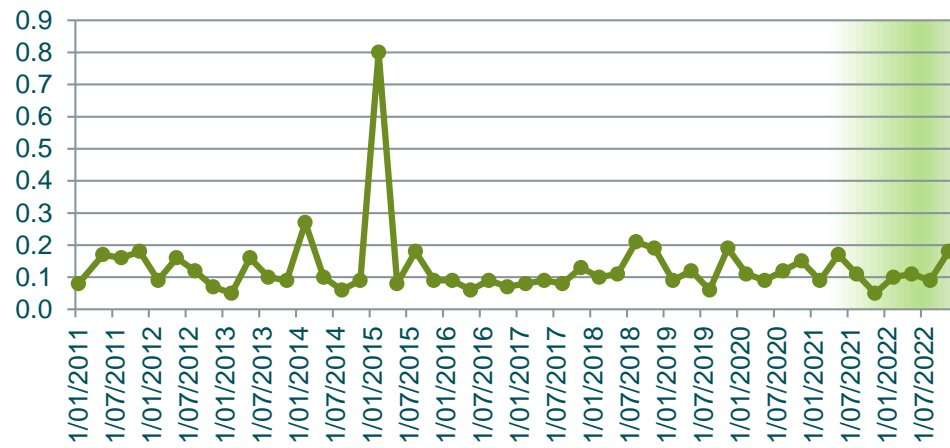
Nitrite N mg/L



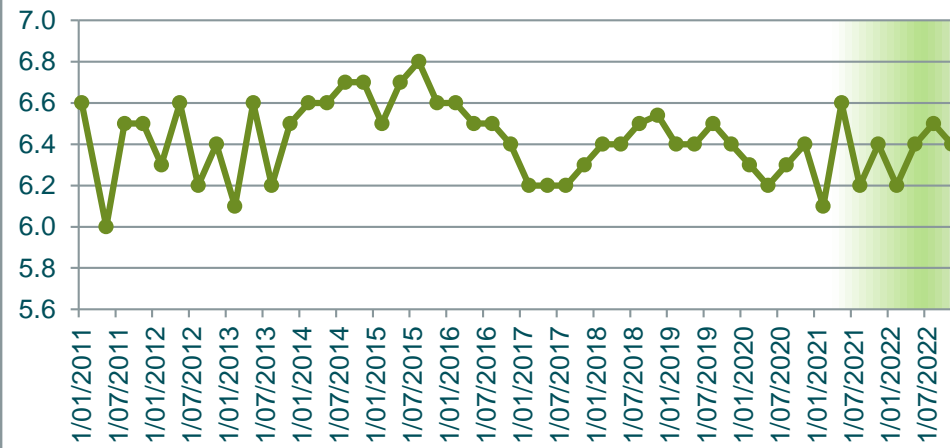
Nitrogen Oxidised mg/L



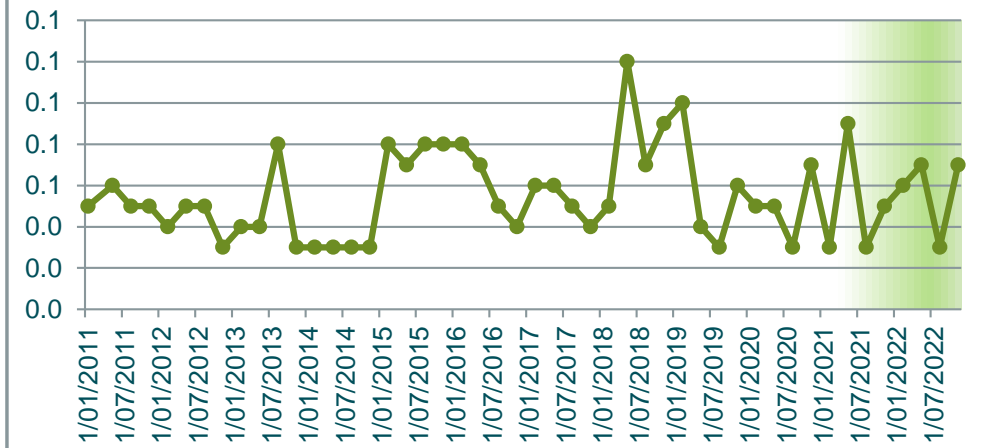
Nitrogen Total mg/L



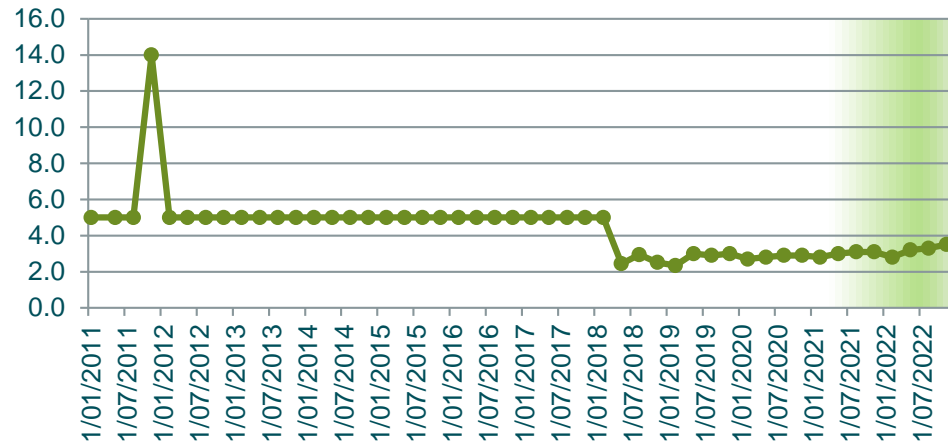
pH pH units



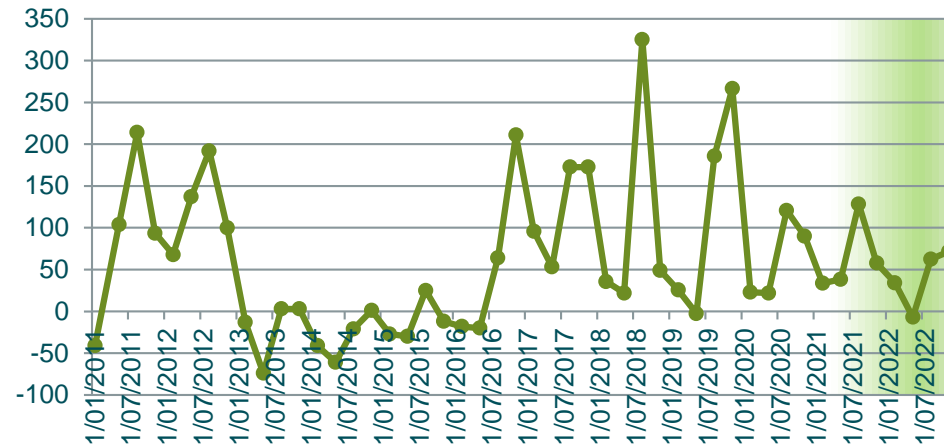
Phosphorus Total mg/L



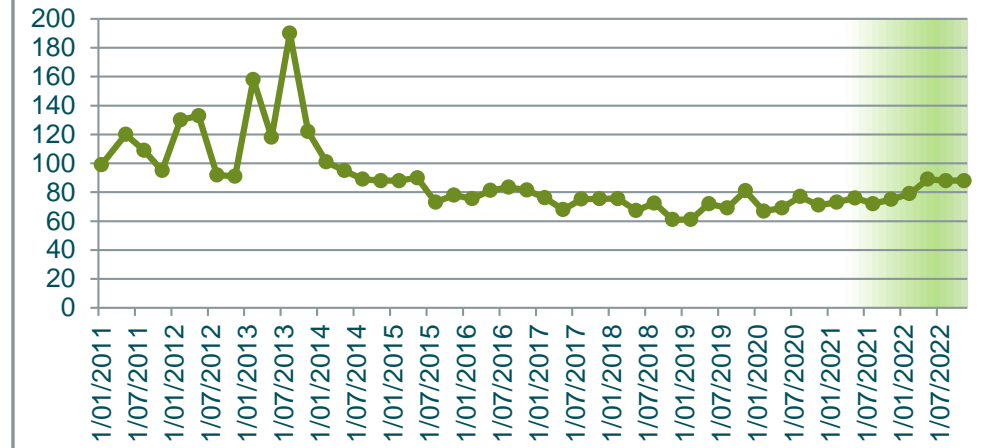
**Potassium Total
mg/L**



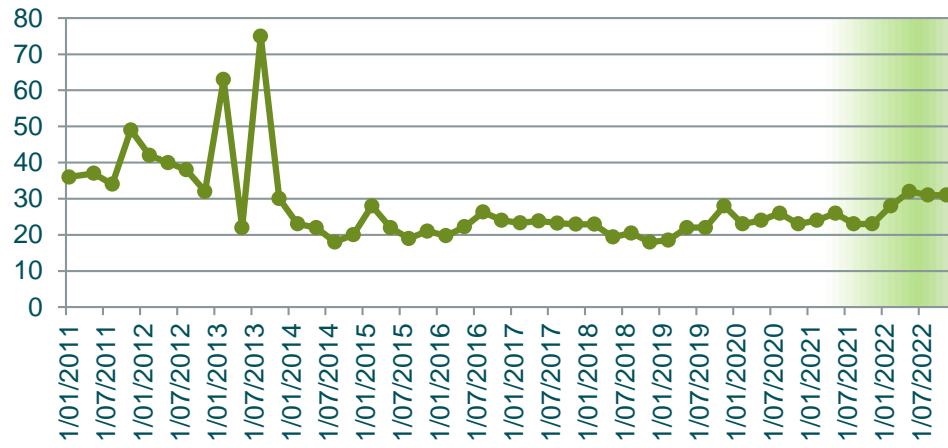
**Redox Potential
mV**



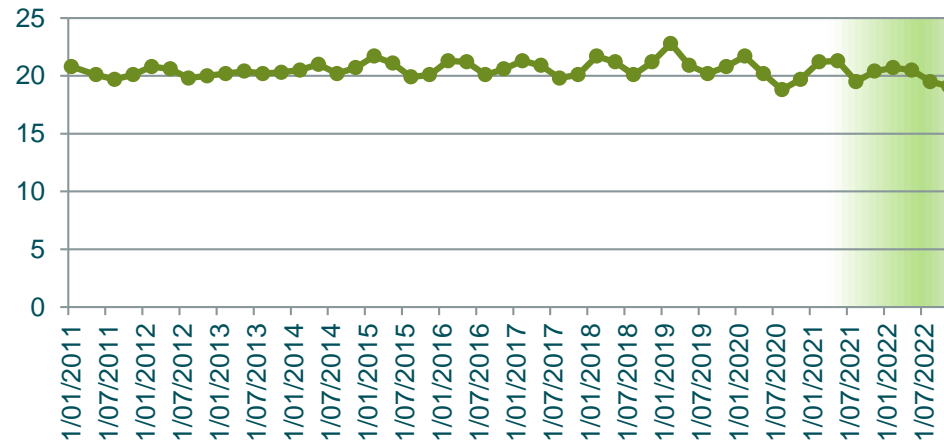
**Sodium (Total)
mg/L**



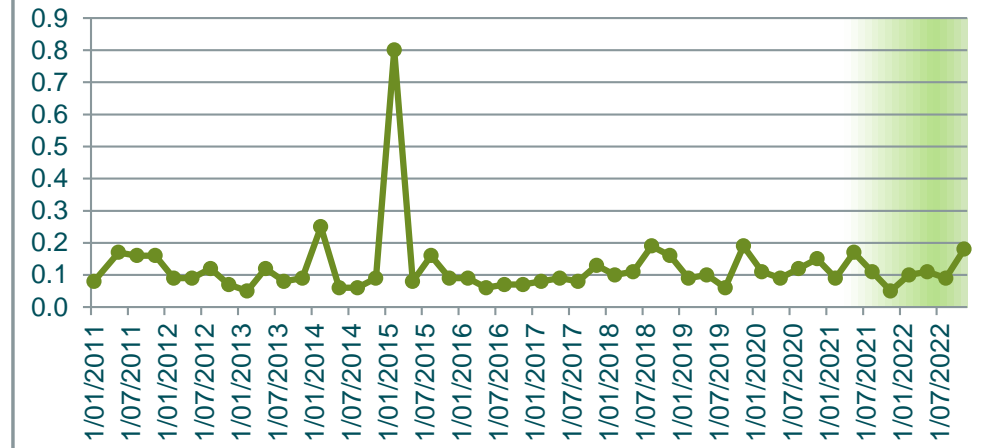
**Sulphate
mg/L**



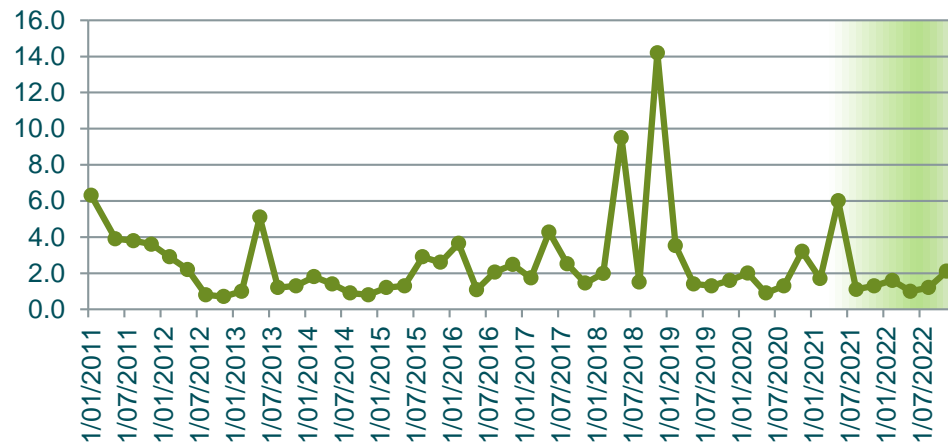
**Temperature
C**



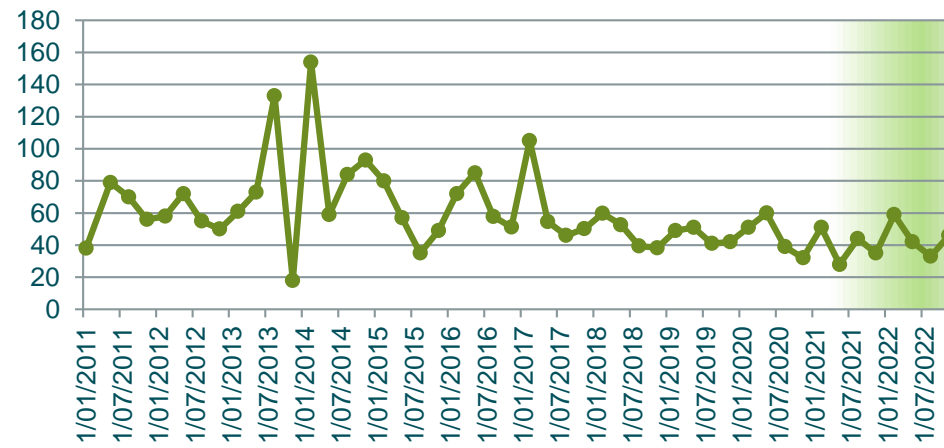
**TKN
mg/L**



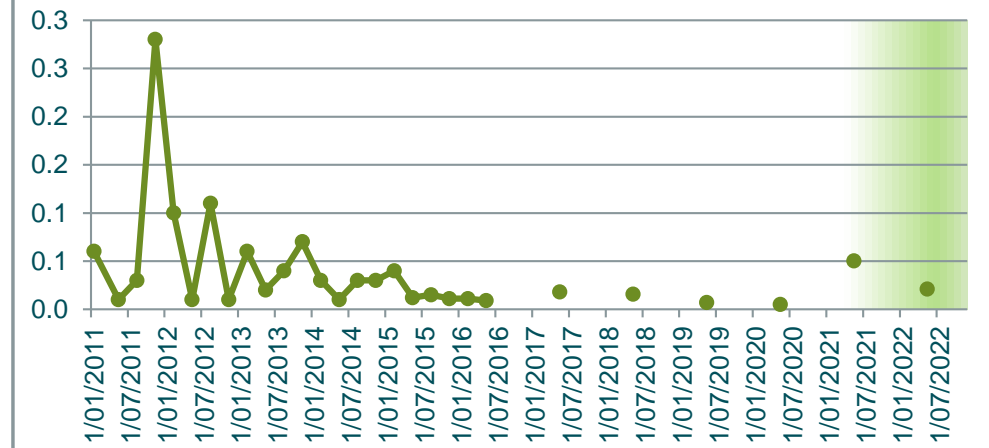
**TOC
mg/L**



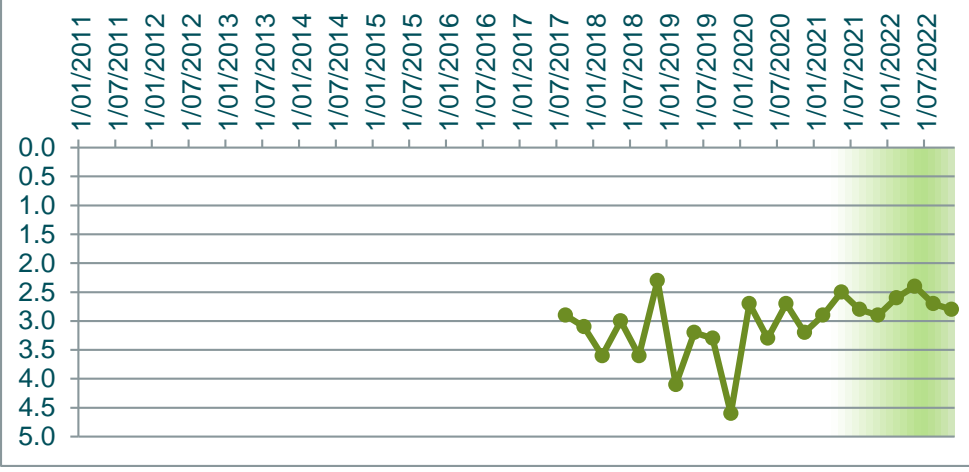
**Total Acidity
mg/L CaCO3**



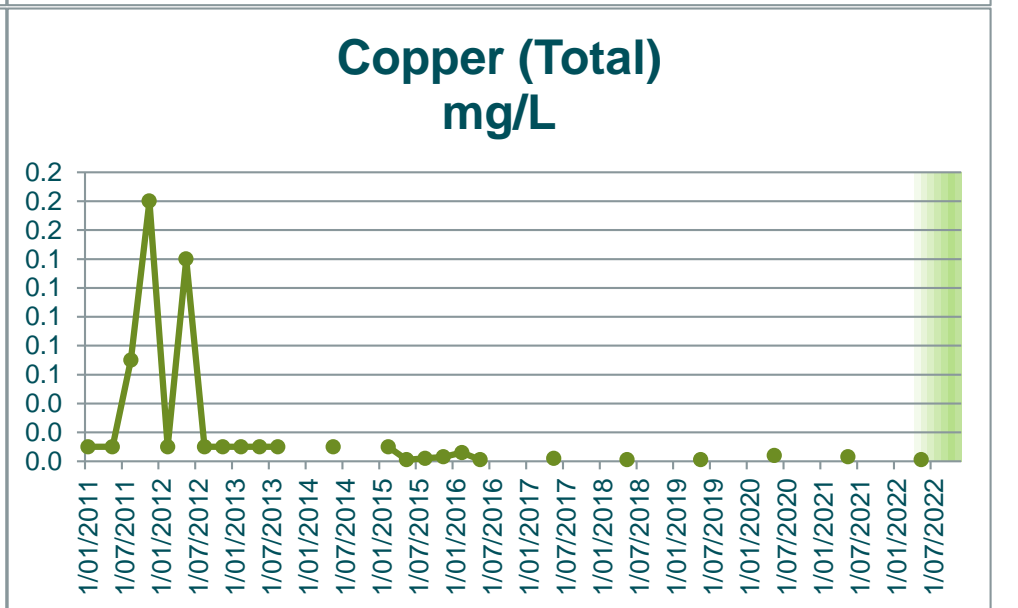
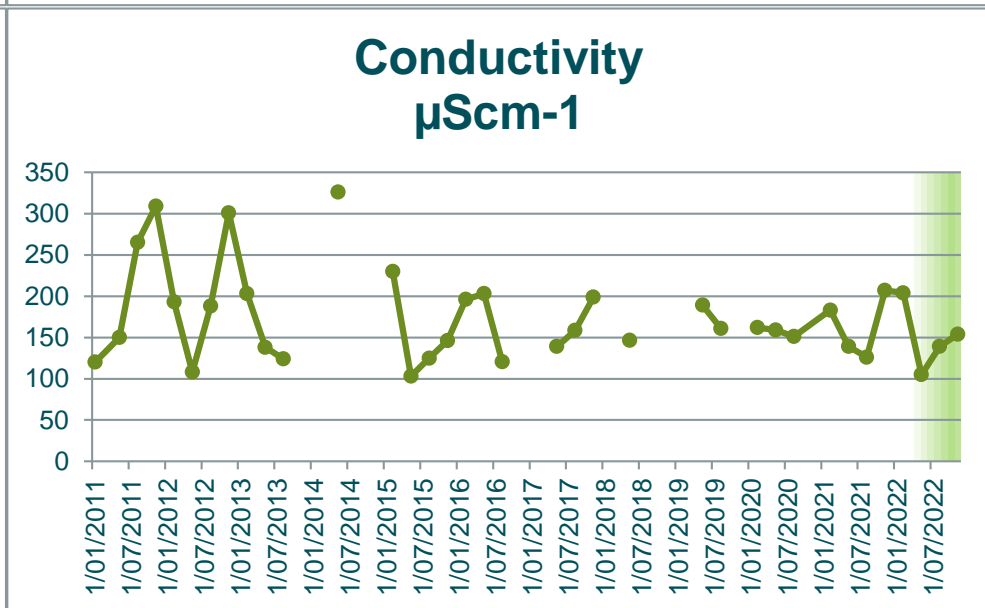
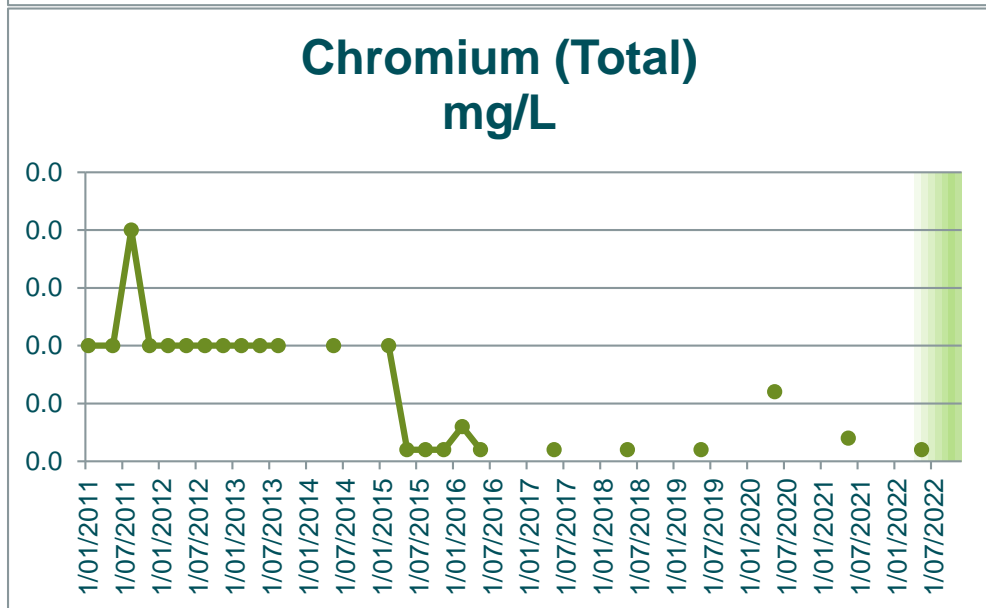
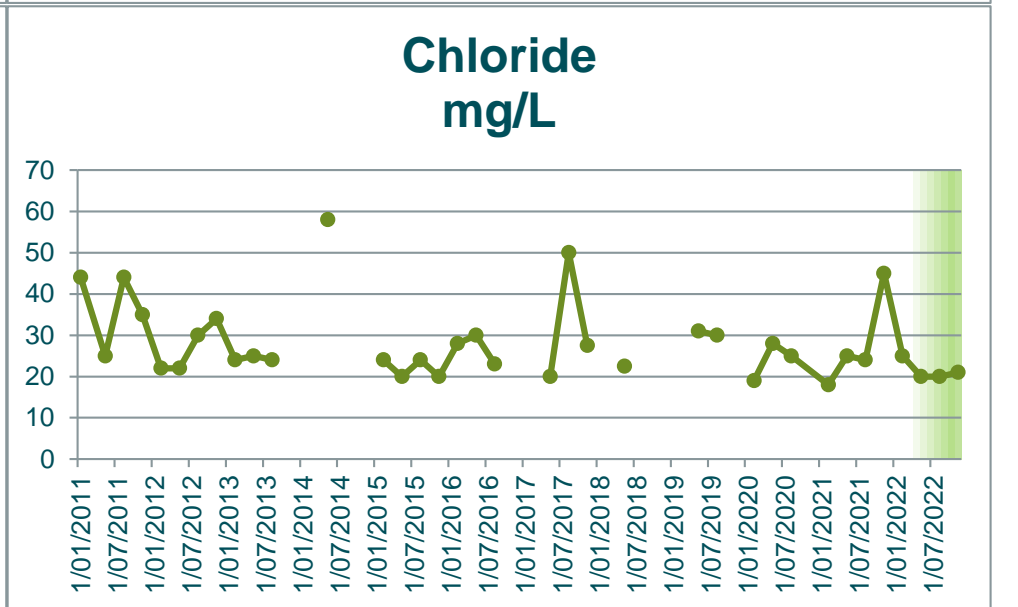
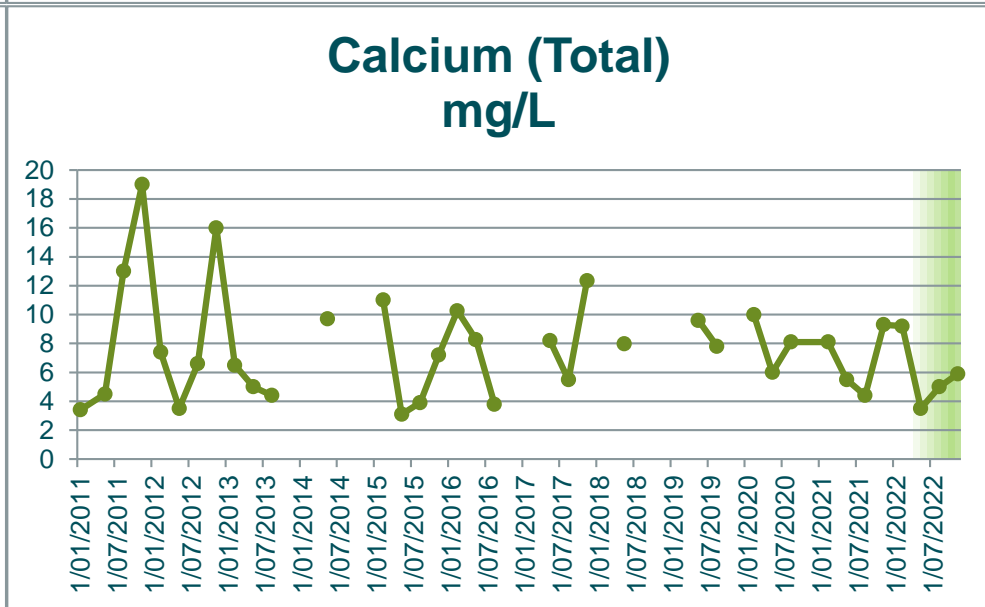
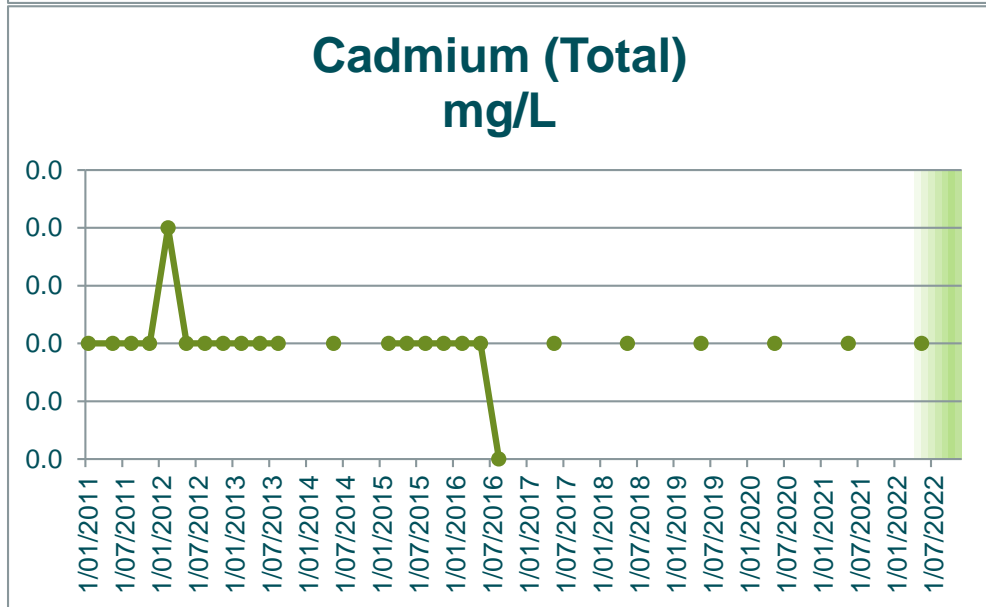
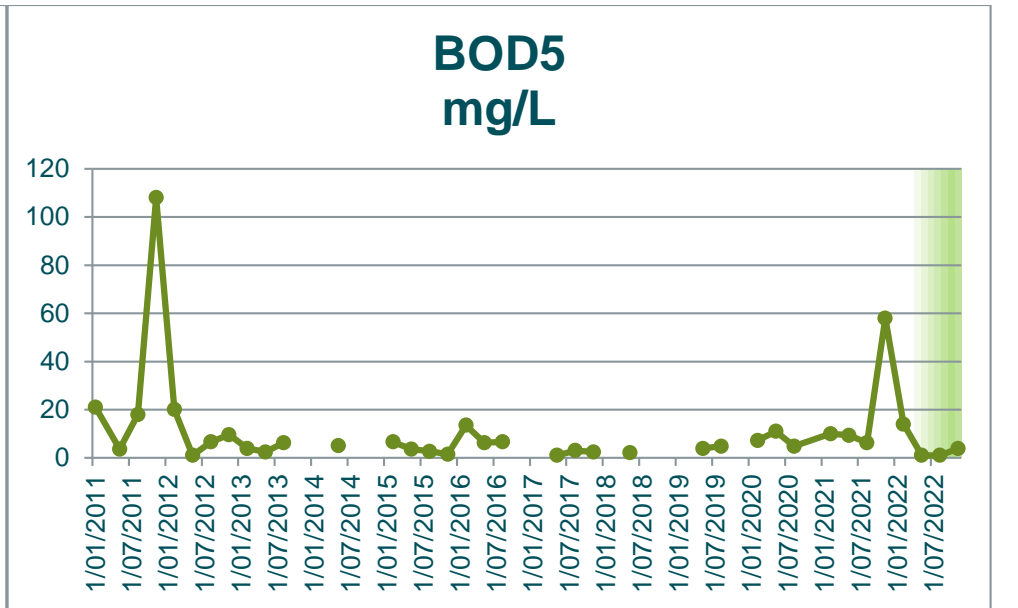
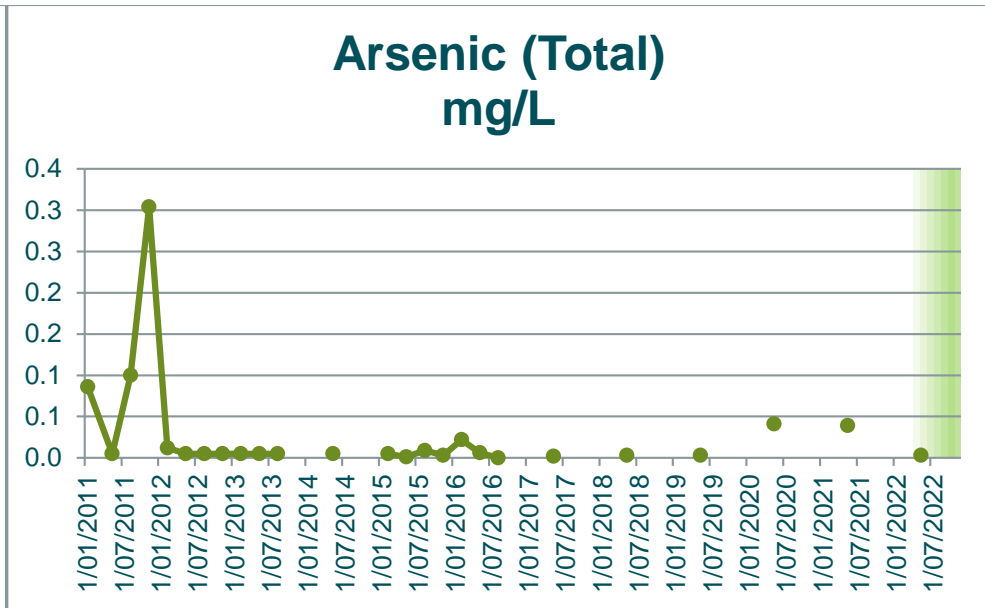
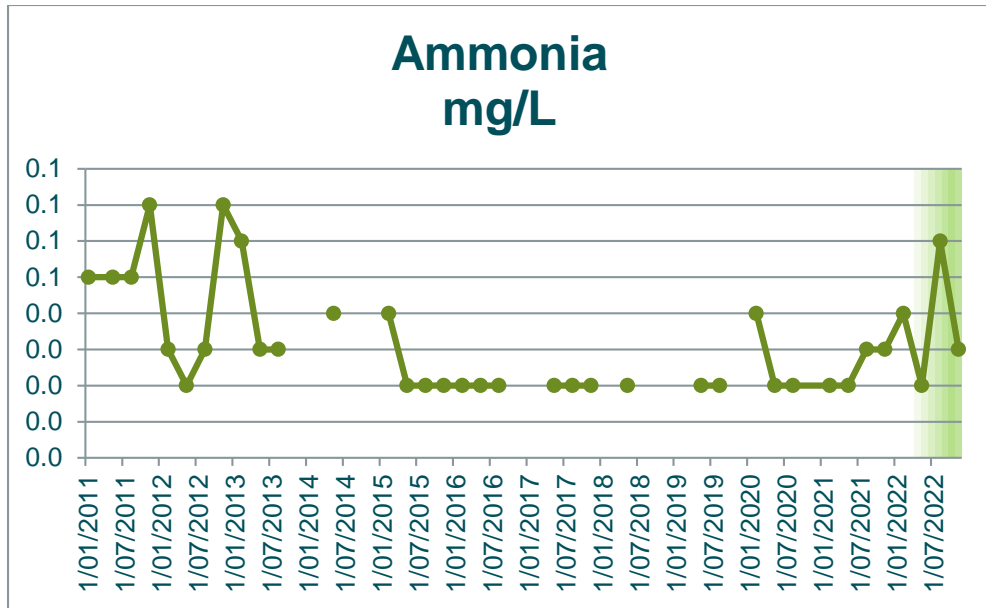
**Zinc (Total)
mg/L**



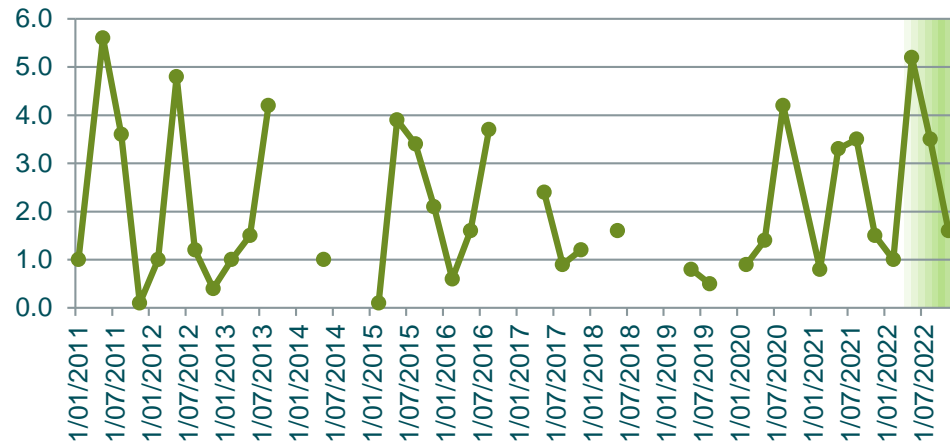
Depth to Groundwater m



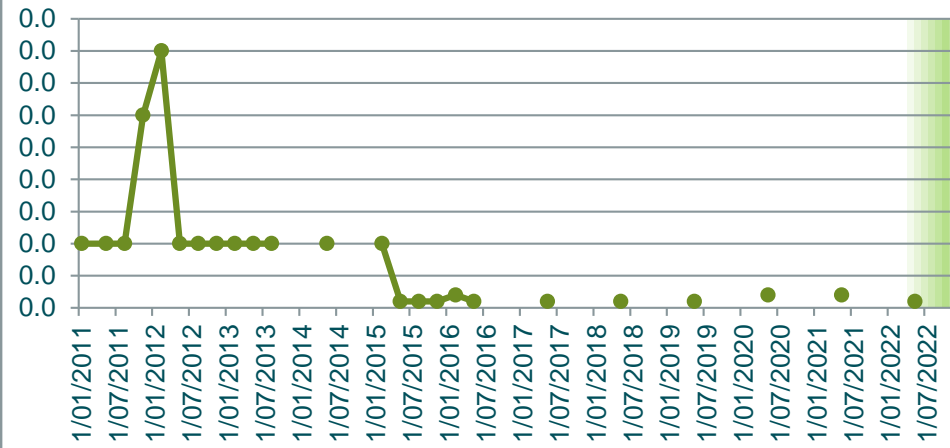
9/11/2021	94	0.0		58		9	45		207		1.5		3.1			0.0	0.0	0.0	19.2		6.4	3.8	1.3	-21	19	1740	2.3	19.1	6.8	
9/02/2022	43	0.0		14		9	25		204		1.0		3.8			0.0	0.1	0.0	3.7		6.4	0.6	1.2	-52	15	384	2.1	3.7	25.0	
11/05/2022	14	0.0	0.0	1	0.0	4	20	0.0	105	0.0	5.2	0.0	1.4	0.1	0.0	0.0	0.0	0.0	0.6		6.2	0.1	1.1	75	13	58	3.3	0.6	5.3	0.0
10/08/2022	23	0.1		1		5	20		139		3.5		2.1			0.0	0.0	0.0	0.4		6.2	0.1	0.9	71	16	34	1.6	0.4	4.8	
9/11/2022	32	0.0		4		6	21		154		1.6		2.9			0.0	0.0	0.0	2.2		6.2	0.4	0.6	40	15	160	1.2	2.2	6.6	
2022 Min	14	0.0	0.0	1	0.0	4	20	0.0	105	0.0	1.0	0.0	1.4	0.1	0.0	0.0	0.0	0.0	0.4	0.0	6.2	0.1	0.6	-52	13	34	1.2	0.4	4.8	0.0
2022 Max	43	0.1	0.0	14	0.0	9	25	0.0	204	0.0	5.2	0.0	3.8	0.1	0.0	0.0	0.1	0.0	3.7	0.0	6.4	0.6	1.2	75	16	384	3.3	3.7	25.0	0.0
2022 Mean	28	0.0	0.0	5	0.0	6	22	0.0	151	0.0	2.8	0.0	2.6	0.1	0.0	0.0	0.0	0.0	1.7	####	6.3	0.3	1.0	34	15	159	2.1	1.7	10.4	0.0
Long-term Average	36	0.0	0.0	11	0.0	8	28	0.0	174	0.0	2.1	0.0	2.8	7.0	0.0	0.0	0.0	0.0	3.1	0.0	6.2	0.4	3.5	73	17	511	5.1	3.1	8.2	0.0



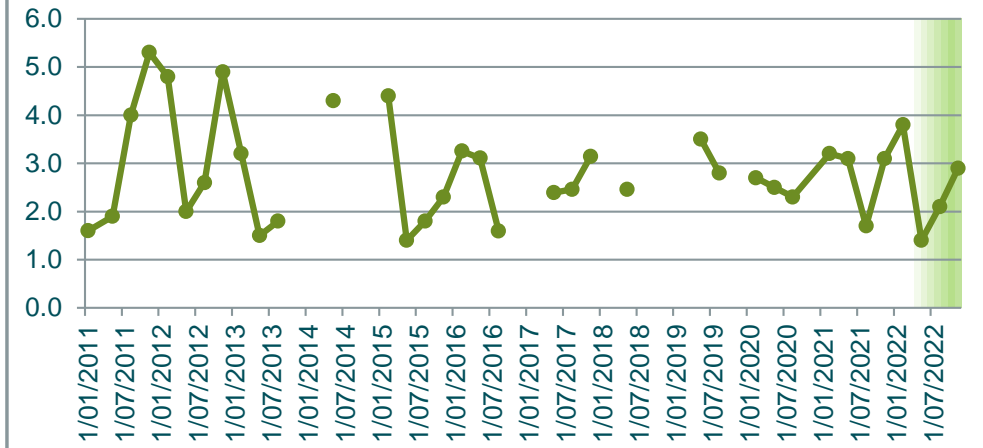
DO (Membrane Electrode)
mg/L



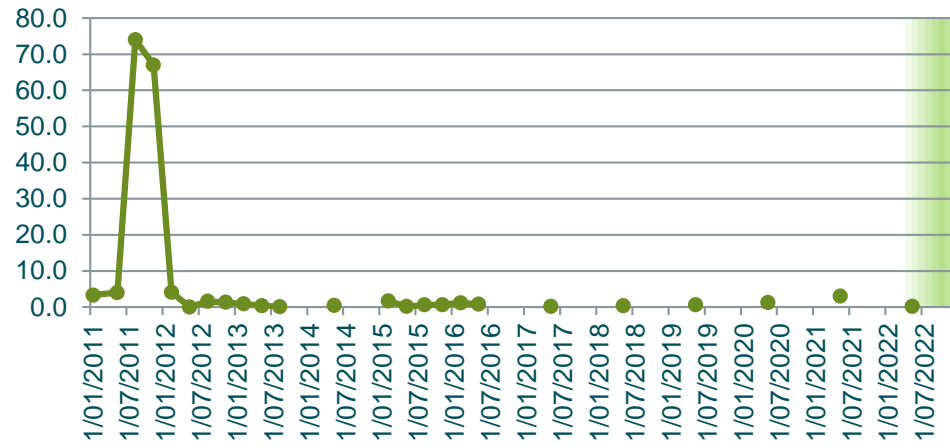
Lead (Total)
mg/L



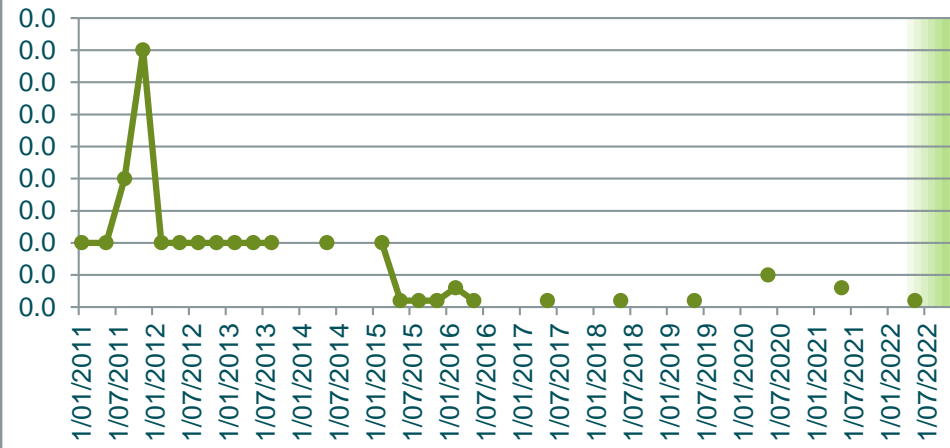
Magnesium (Total)
mg/L



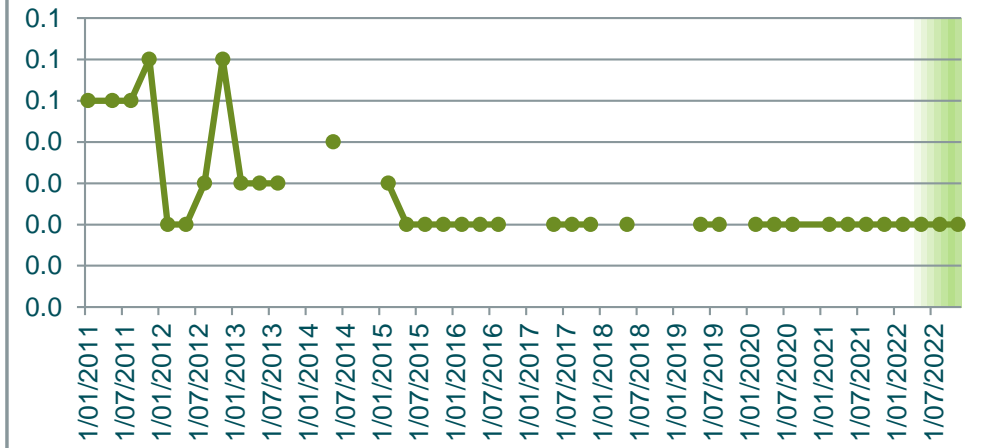
Manganese Total
mg/L



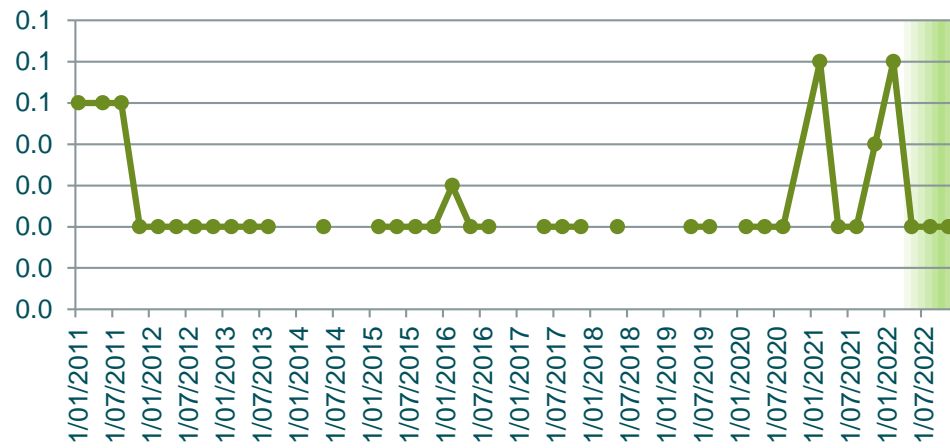
Nickel (Total)
mg/L



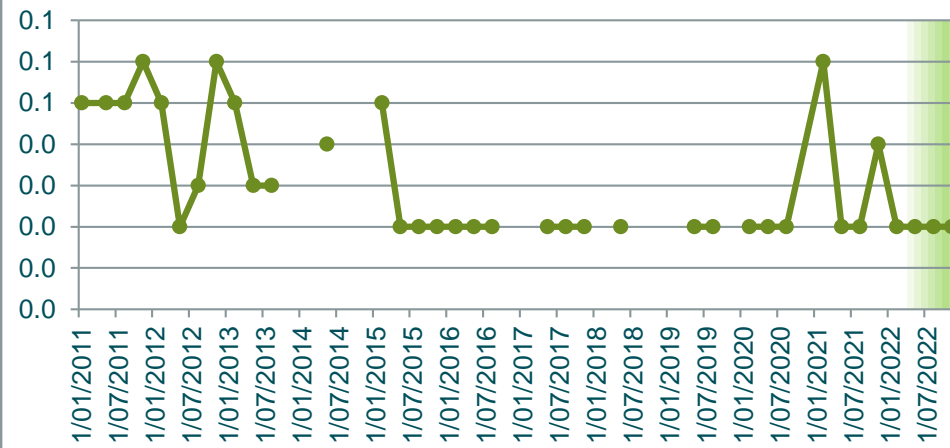
Nitrate N
mg/L



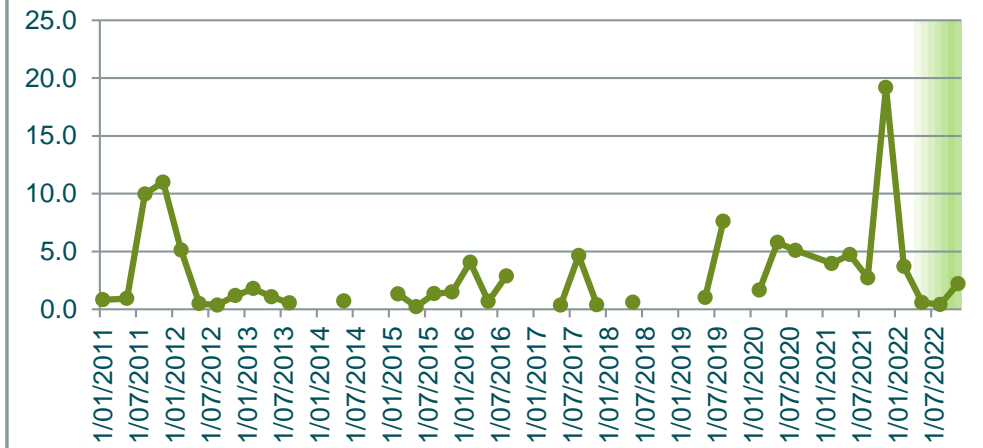
Nitrite N
mg/L



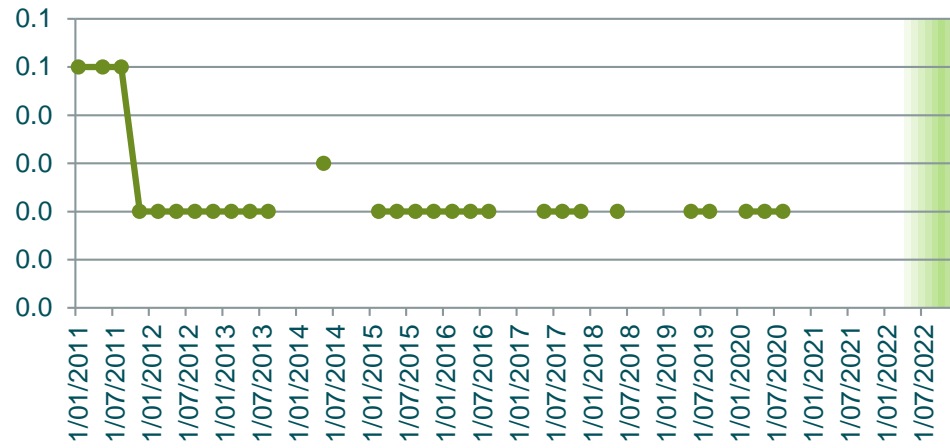
Nitrogen Oxidised
mg/L



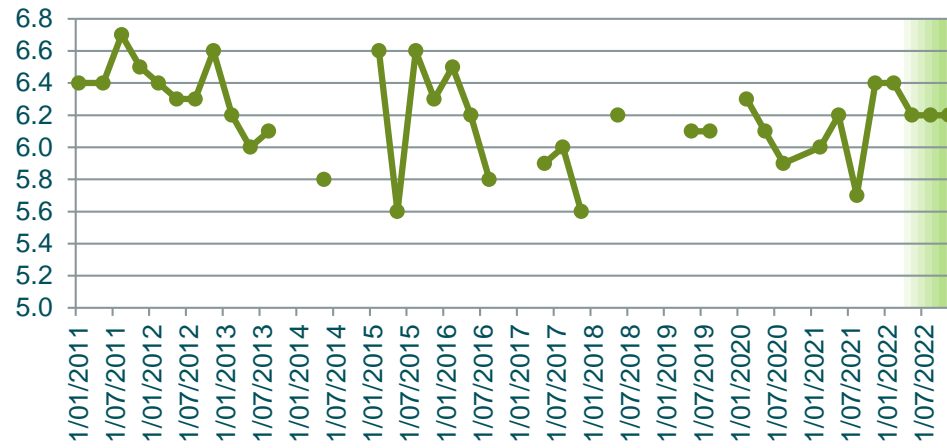
Nitrogen Total
mg/L



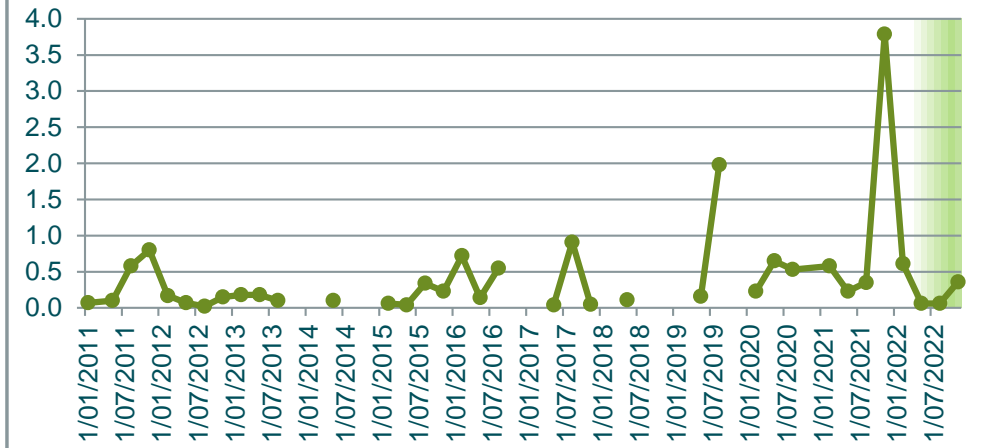
**Orthophosphate
mg/L**



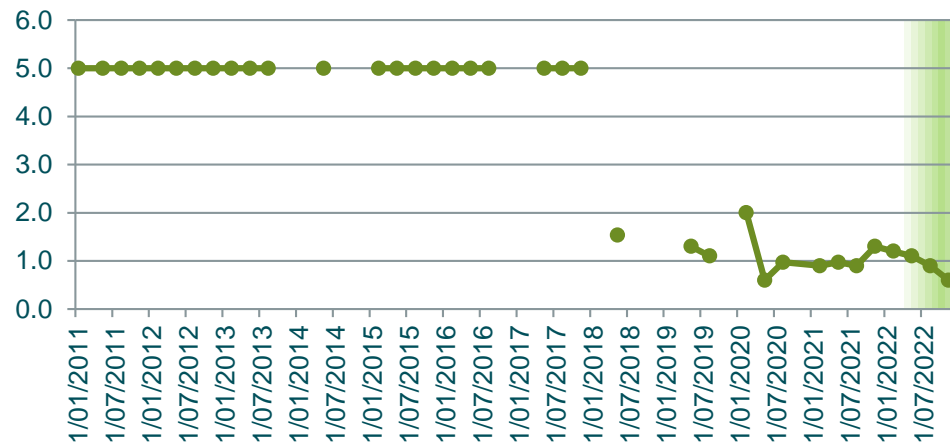
**pH
pH units**



**Phosphorus Total
mg/L**



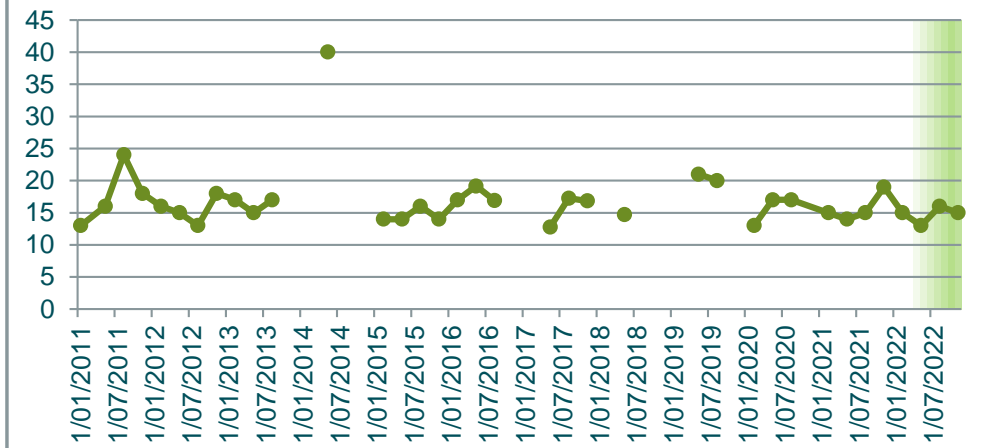
**Potassium Total
mg/L**



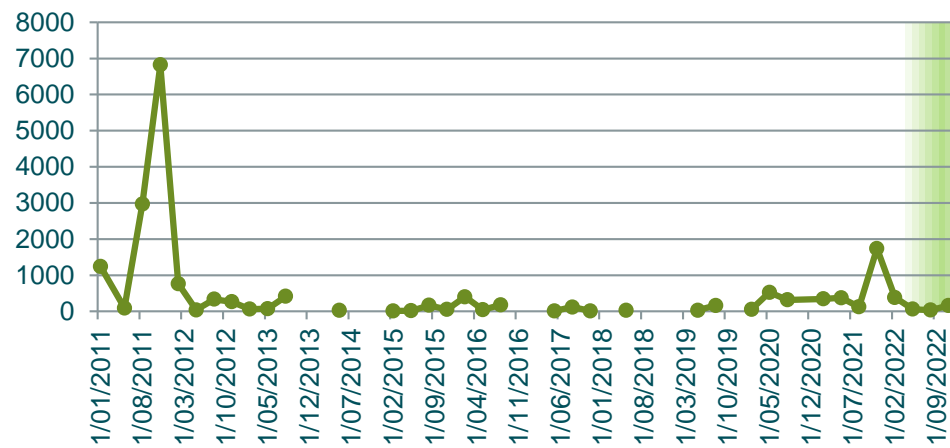
**Redox Potential
mV**



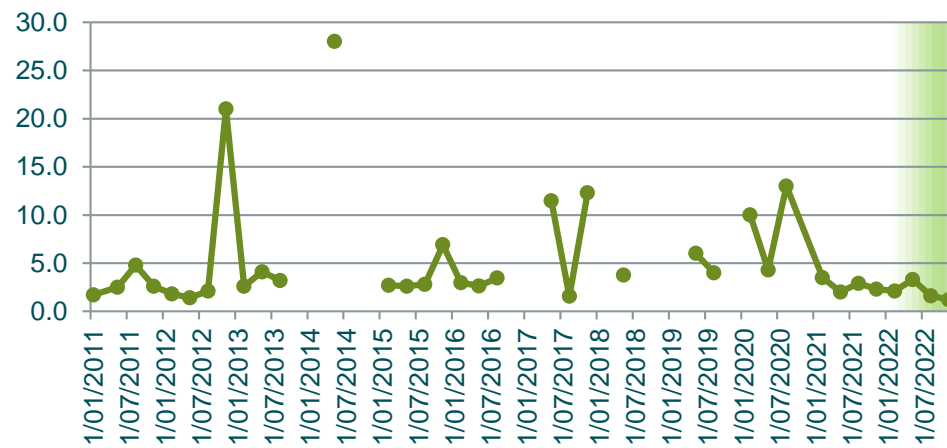
**Sodium (Total)
mg/L**



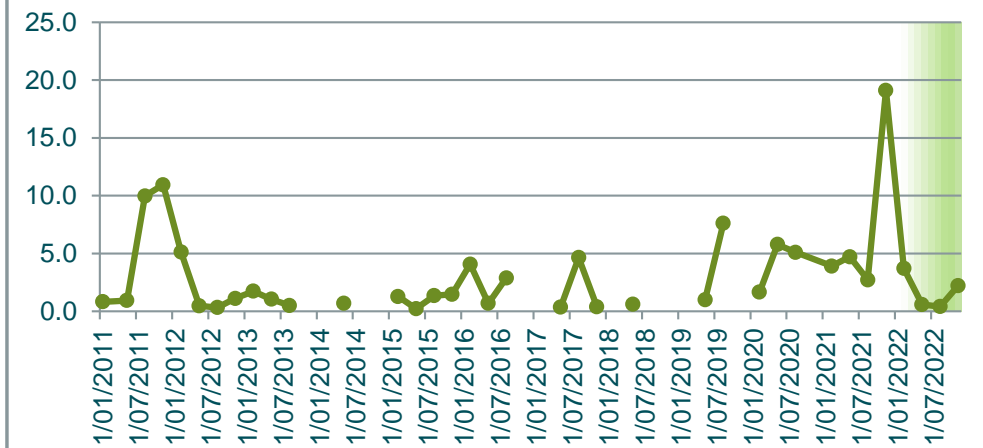
**Solids Suspended
mg/L**



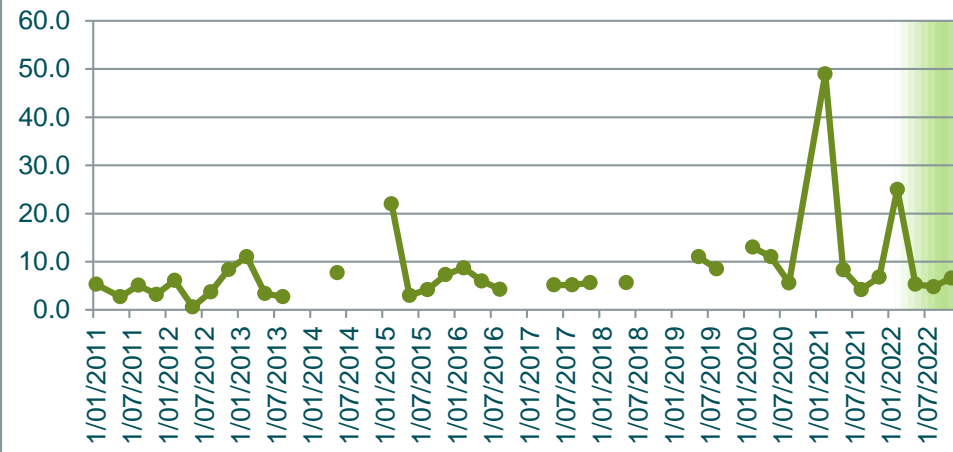
**Sulphate
mg/L**



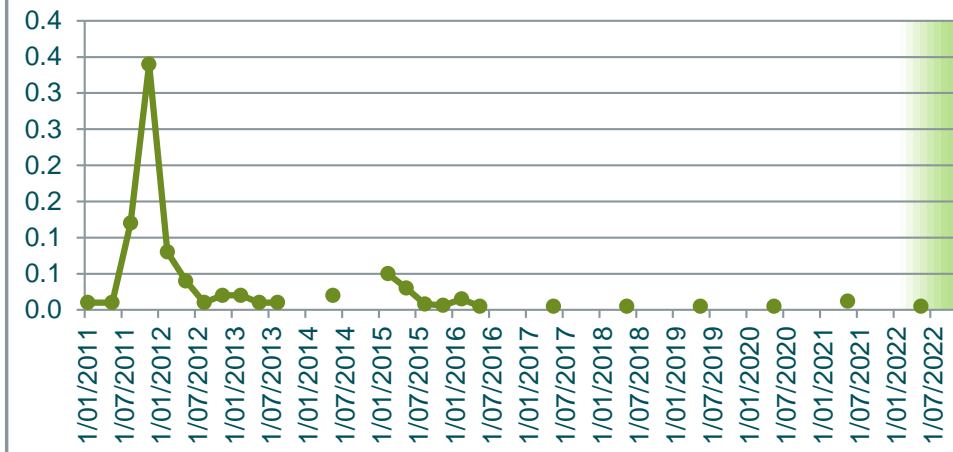
**TKN
mg/L**



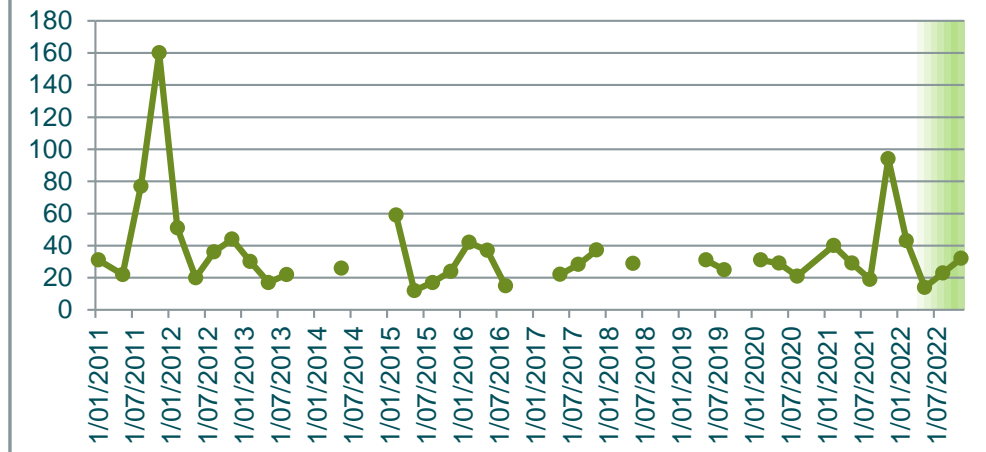
TOC mg/L



Zinc (Total) mg/L

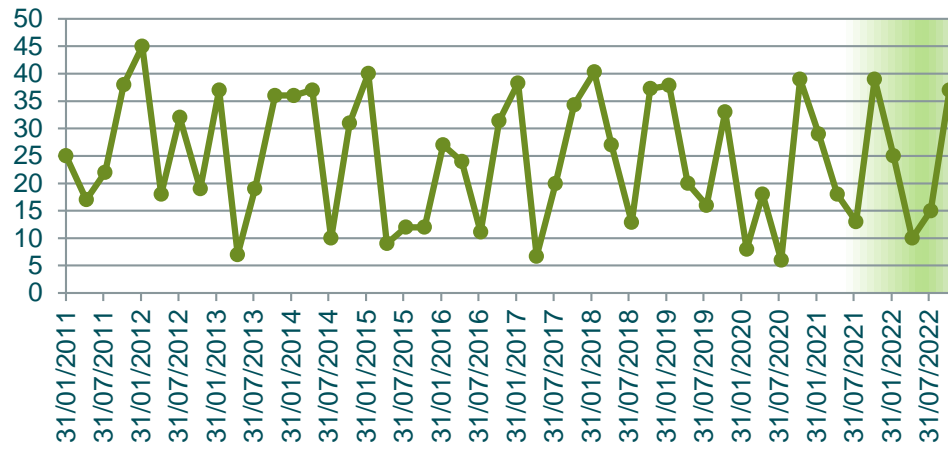


Alkalinity mg/L as CaCO3

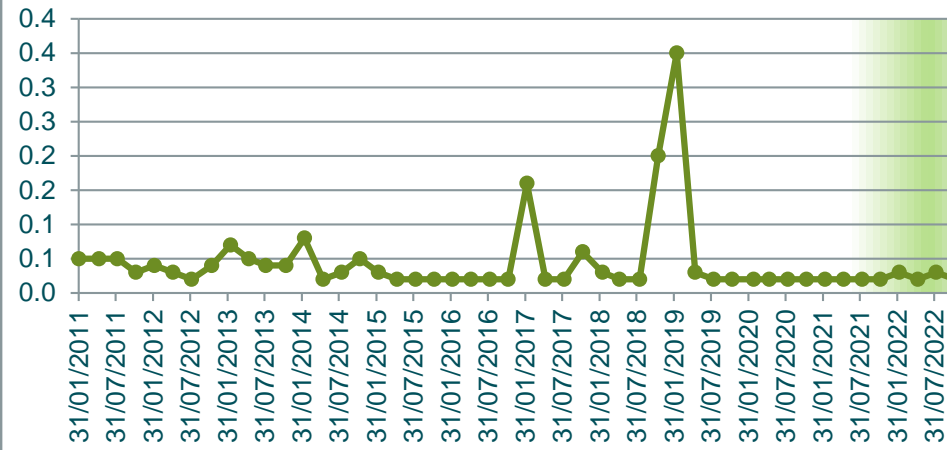


2022 Min	13	0.0	0.0	1.0	0.0	3.1	26	0.0	134	0.0	0.8	0.0	2.1	0.6	0.0	0.0	0.0	0.0	0.4	0.0	5.6	0.0	0.9	9	18	5	2.3	0.4	1	0.0
2022 Max	39	0.0	0.0	5.5	0.0	8.3	42	0.0	221	0.0	5.0	0.0	4.3	0.6	0.0	0.0	0.0	0.0	1.2	0.0	6.3	0.1	1.4	229	21	38	5.2	1.2	19	0.0
2022 Mean	25	0.0	0.0	3.7	0.0	5.8	32	0.0	172	0.0	2.4	0.0	3.3	0.6	0.0	0.0	0.0	0.0	0.8	0.0	6.0	0.1	1.1	103	19	21	3.5	0.7	7	0.0
Long-term Average	25	0.0	0.0	5.6	0.0	6.1	37	0.0	193	0.0	2.5	0.0	3.4	0.7	0.0	0.0	0.0	0.0	0.9	0.0	6.1	0.1	3.8	147	22	30	4.5	0.8	8.0	0.0

**Alkalinity
mg/L as CaCO3**



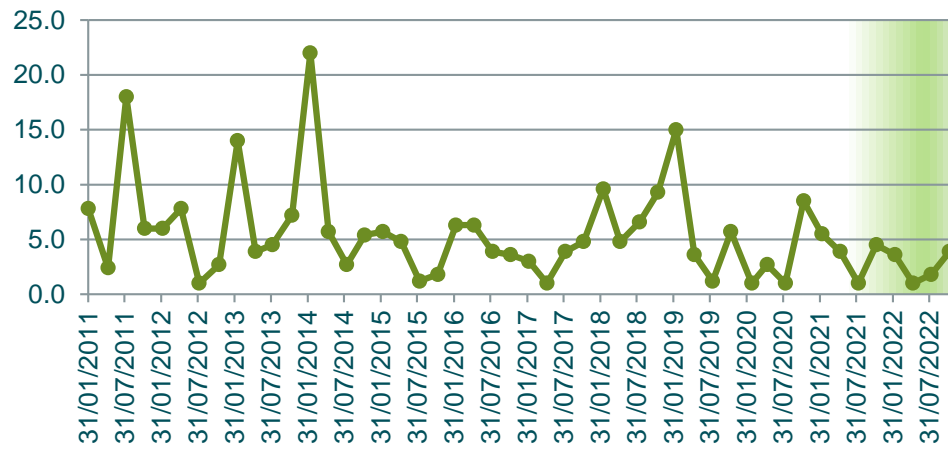
**Ammonia
mg/L**



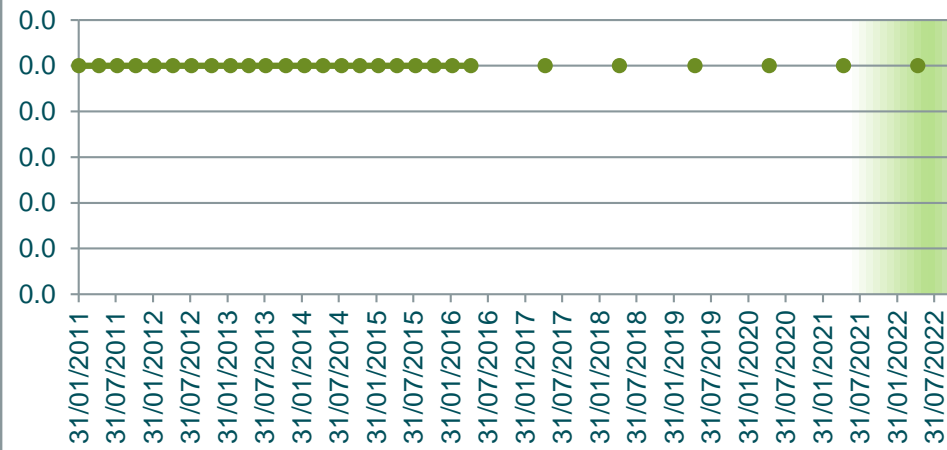
**Arsenic (Total)
mg/L**



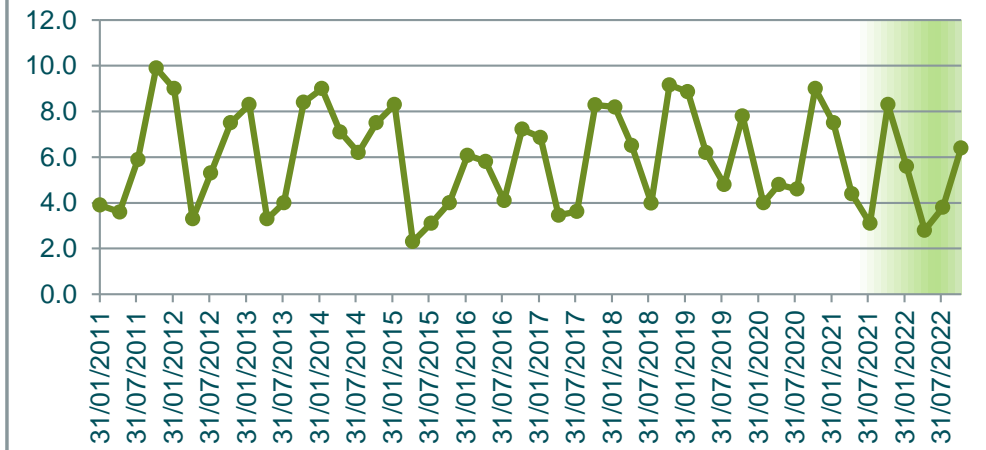
**BOD5
mg/L**



**Cadmium (Total)
mg/L**



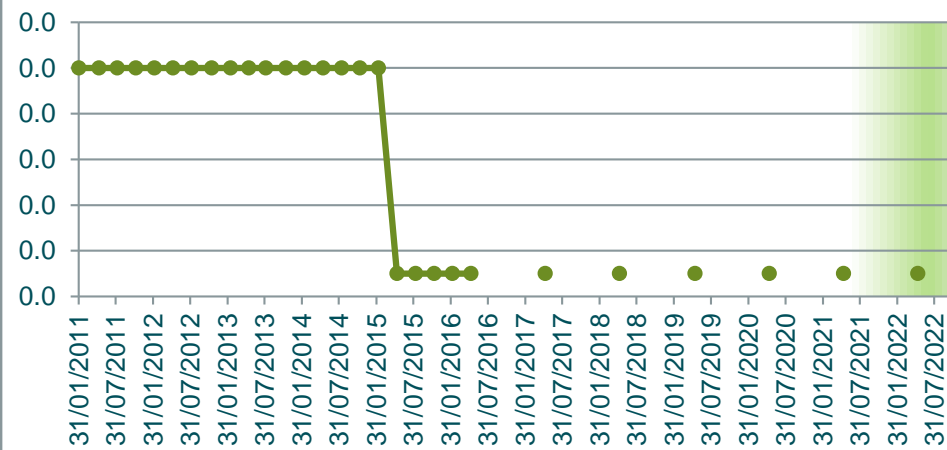
**Calcium (Total)
mg/L**



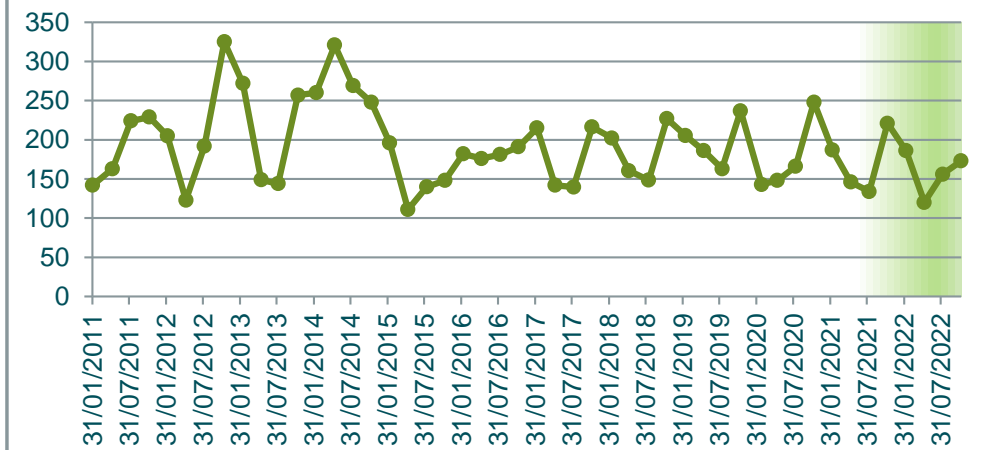
**Chloride
mg/L**



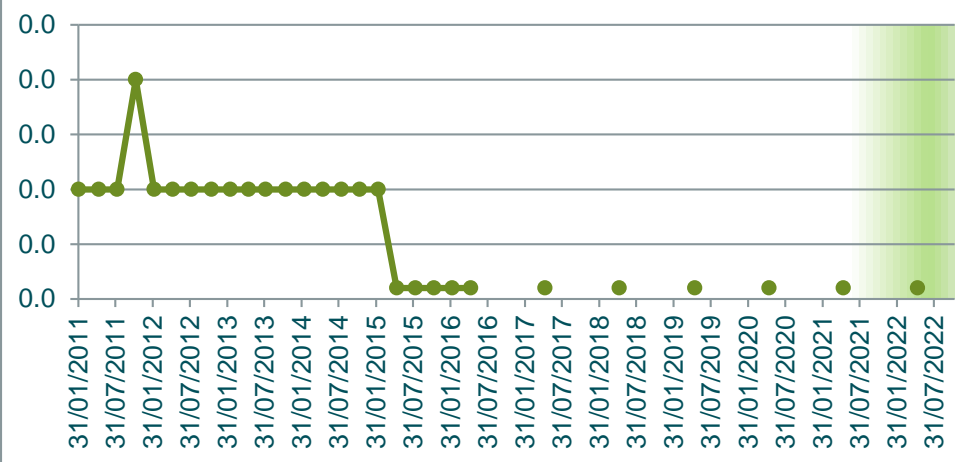
**Chromium (Total)
mg/L**



**Conductivity
µScm-1**



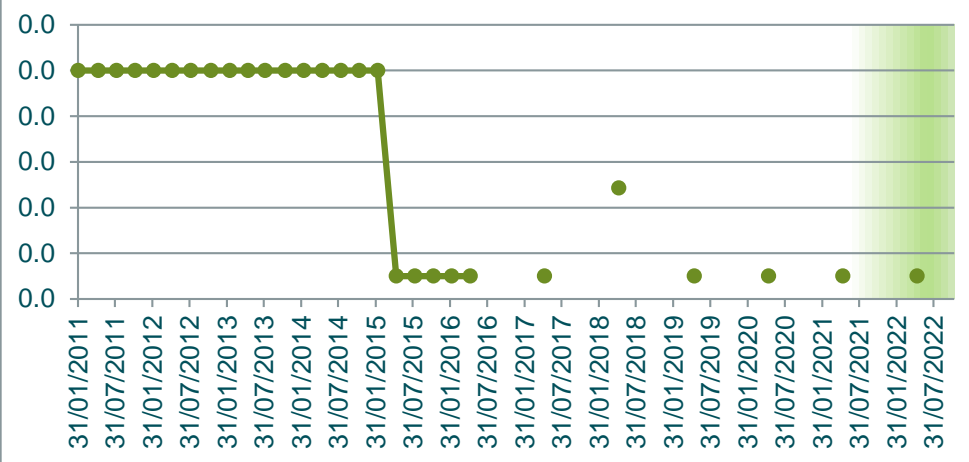
Copper (Total)
mg/L



DO (Membrane Electrode)
mg/L



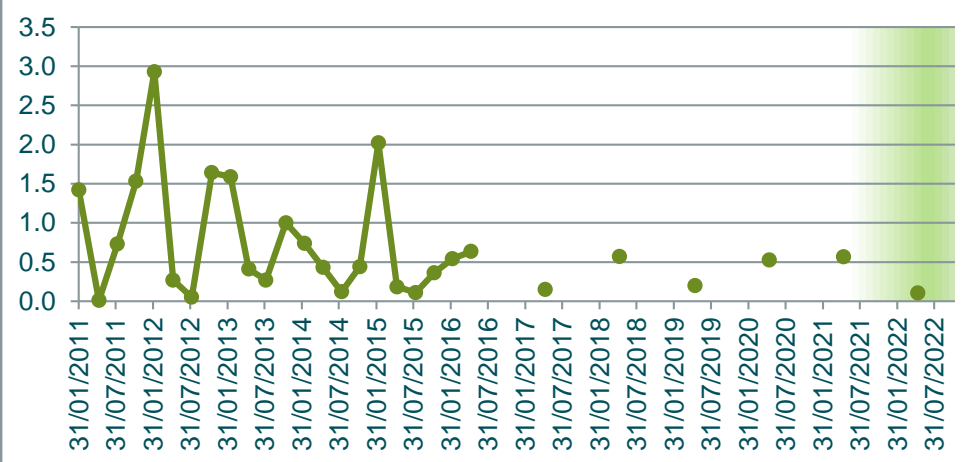
Lead (Total)
mg/L



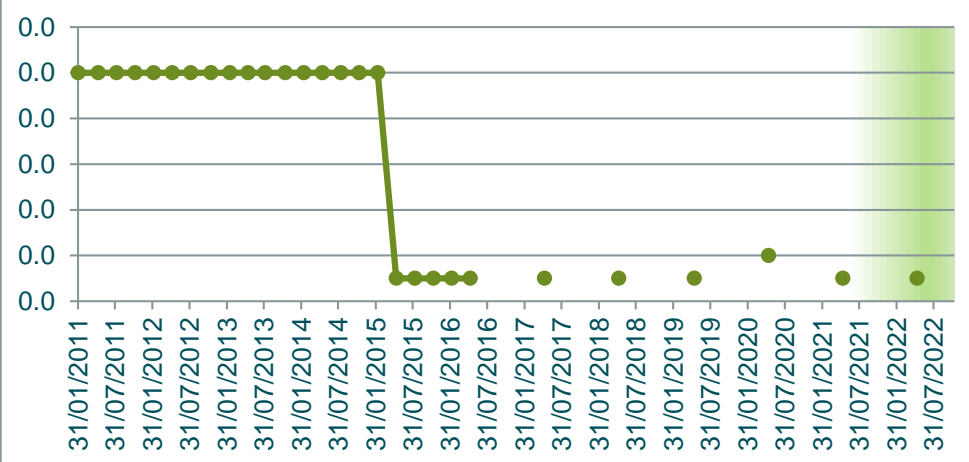
Magnesium (Total)
mg/L



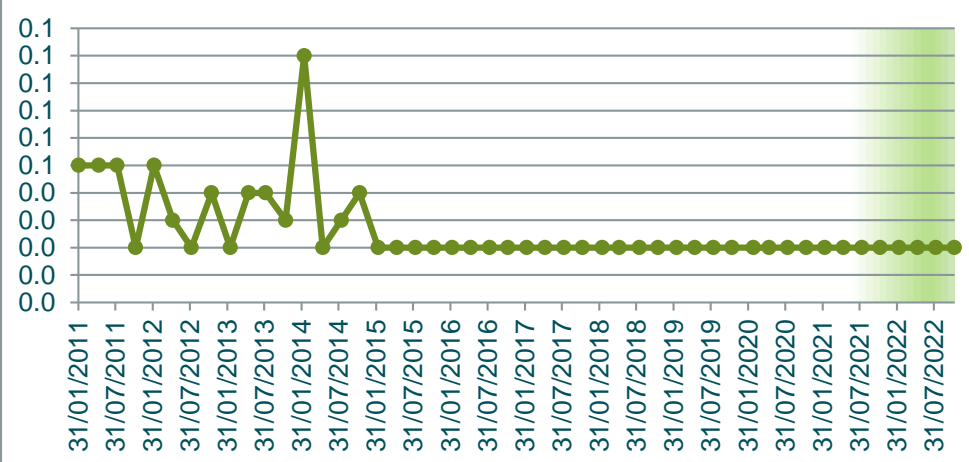
Manganese Total
mg/L



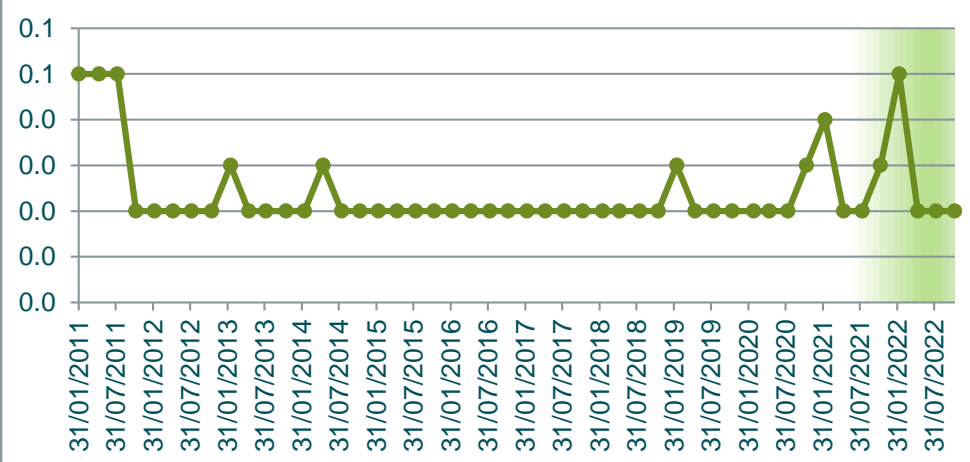
Nickel (Total)
mg/L



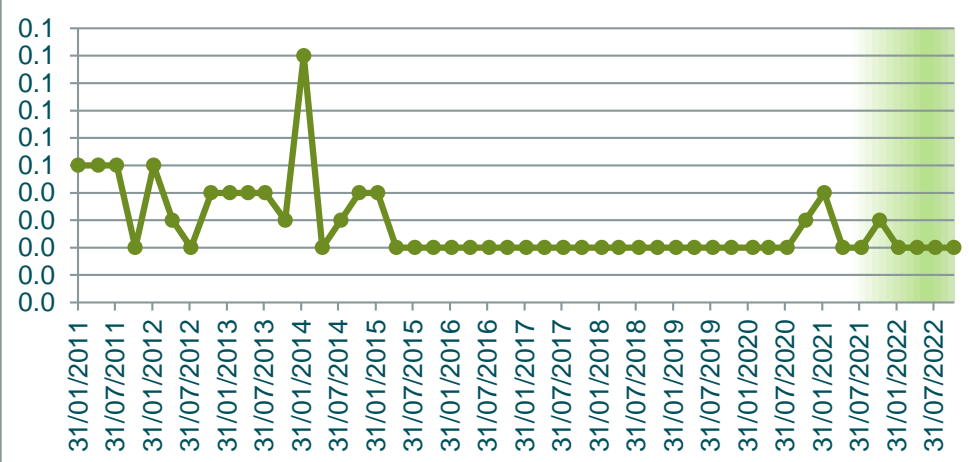
Nitrate
N mg/L

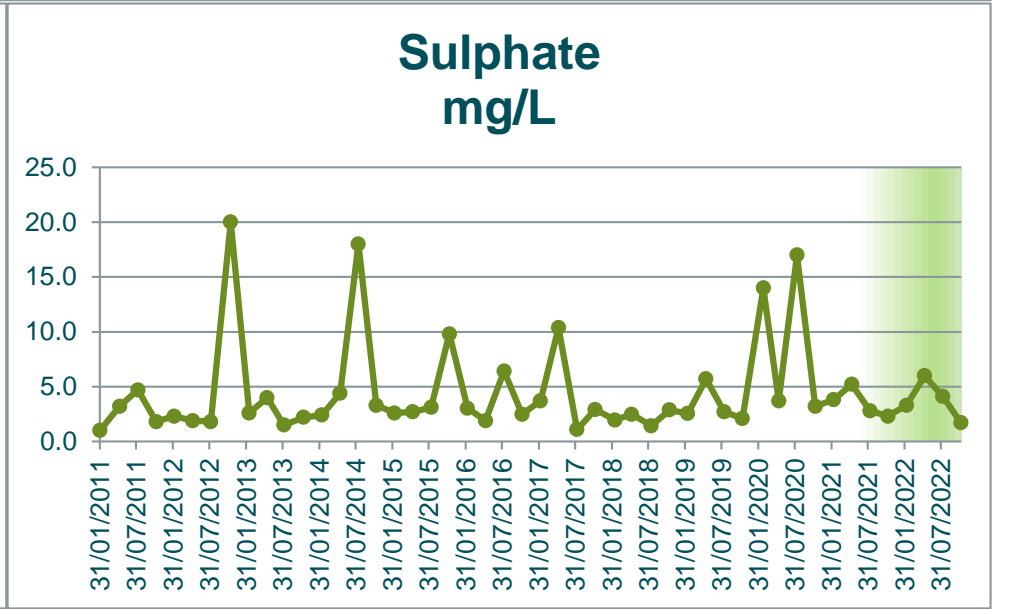
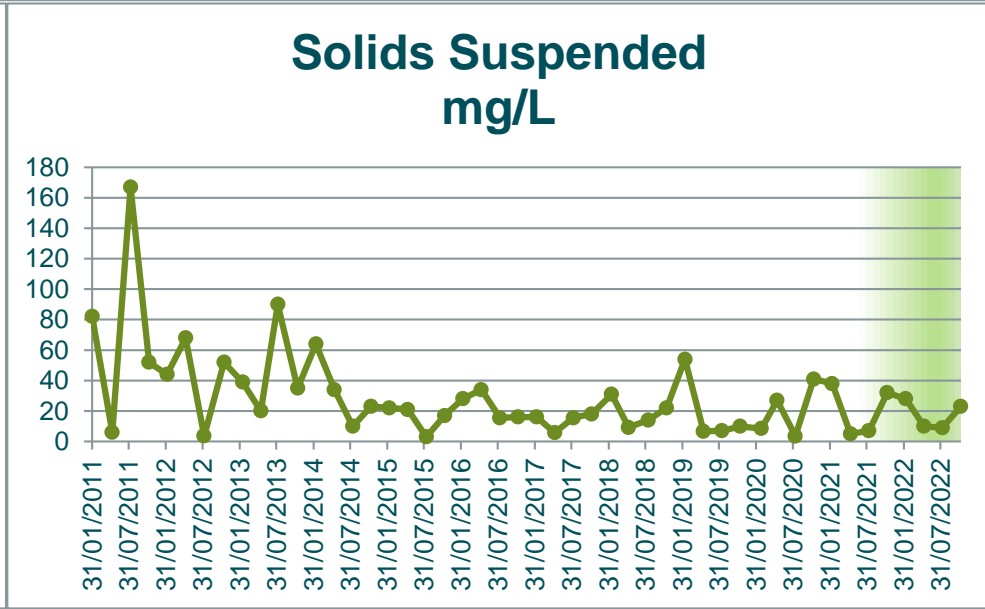
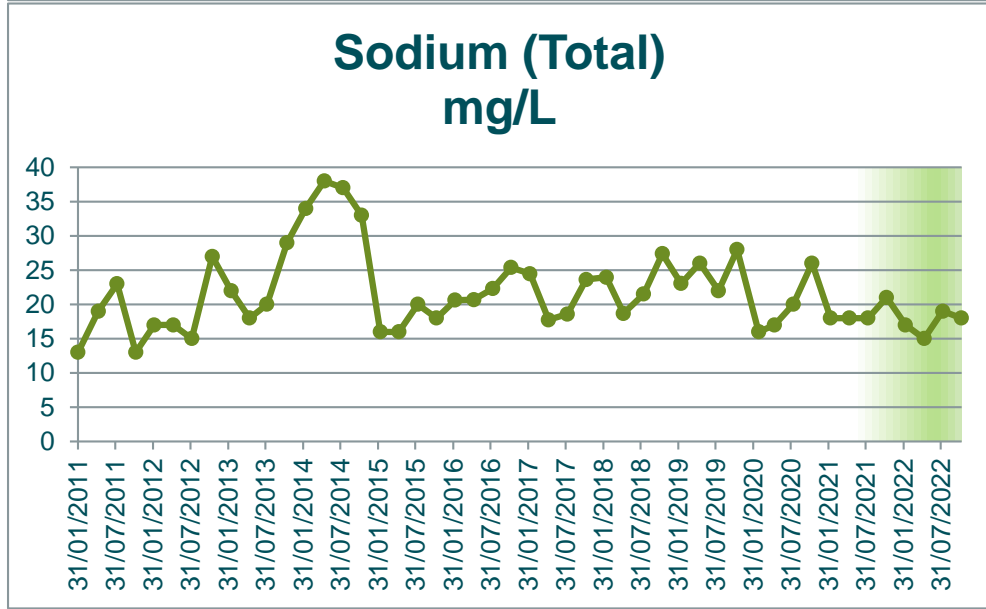
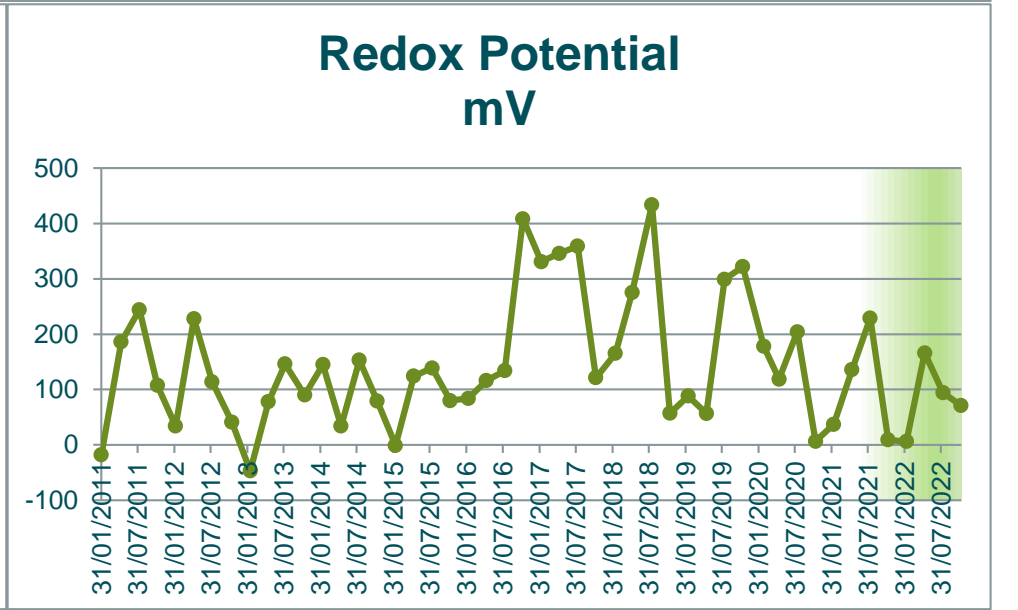
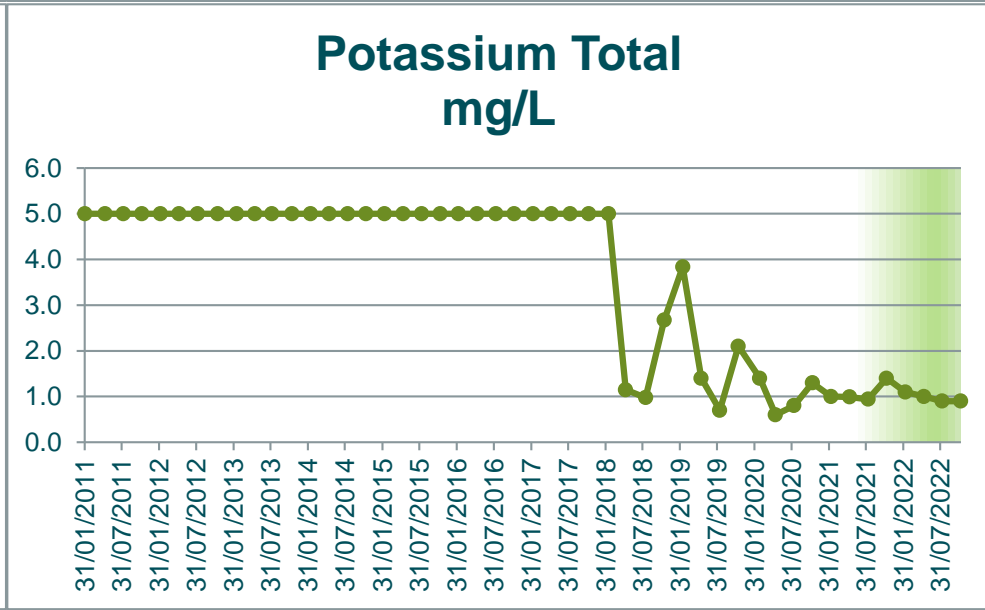
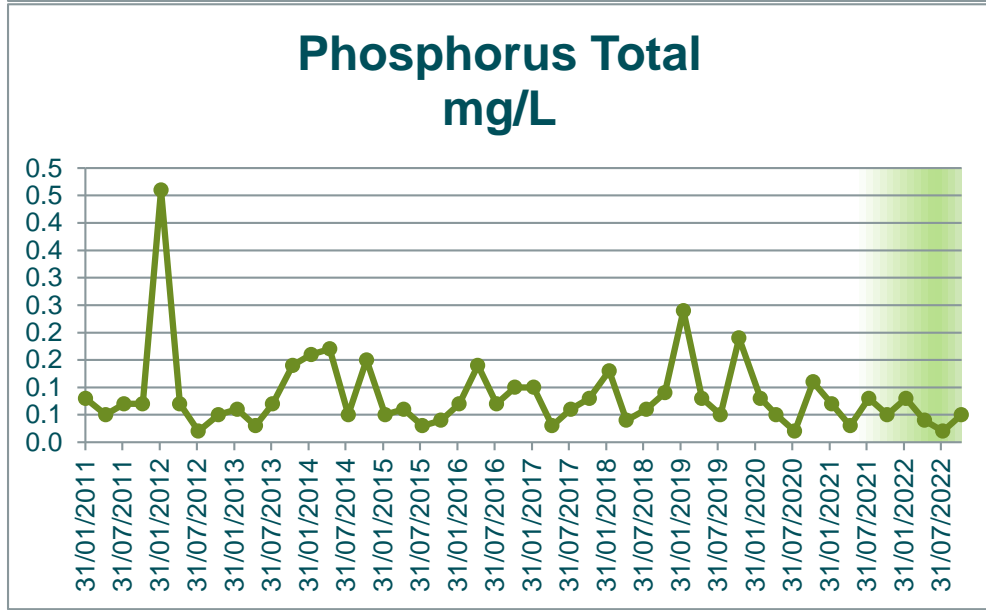
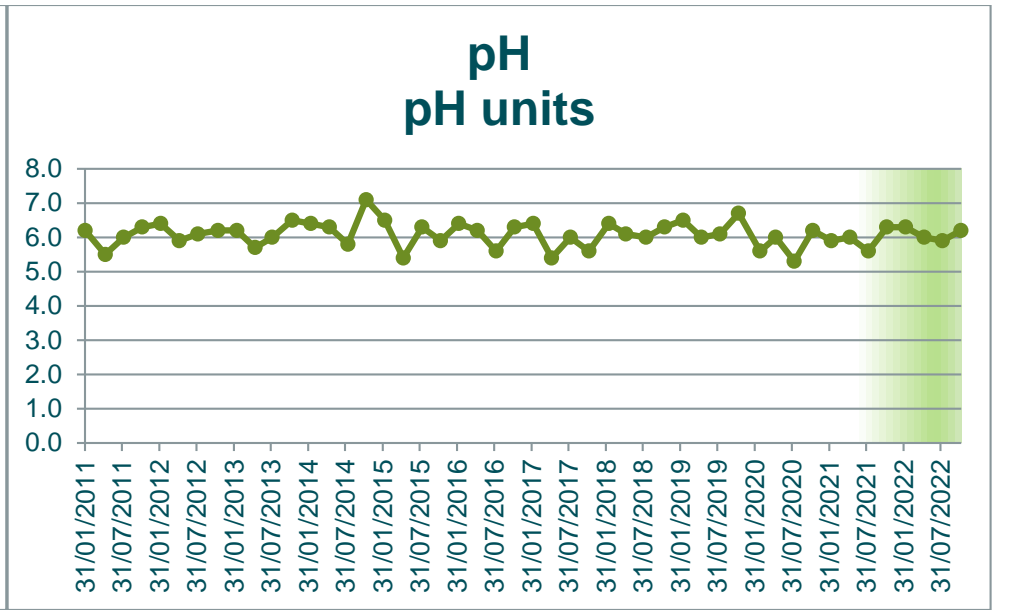
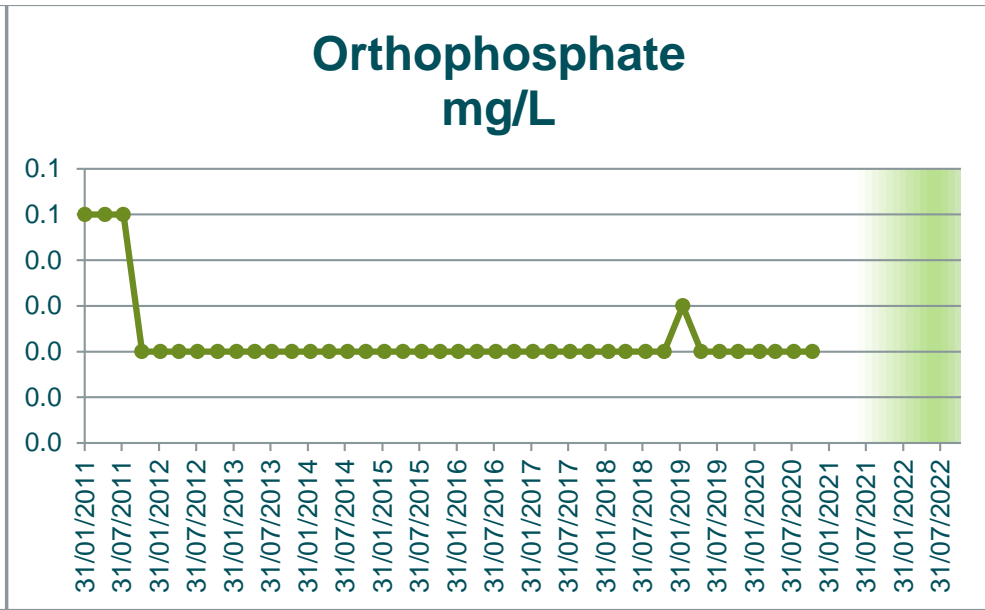
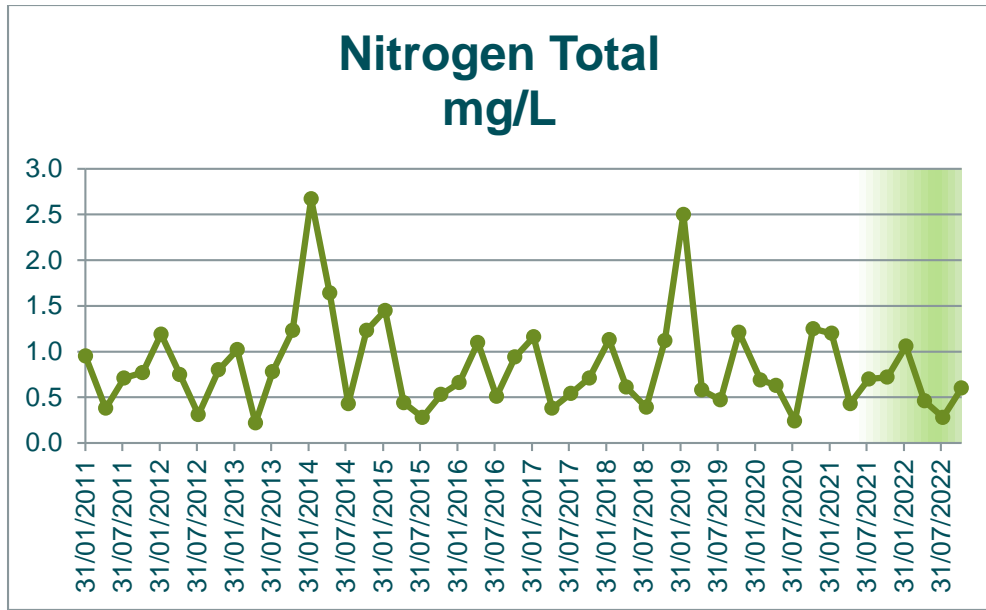


Nitrite
N mg/L

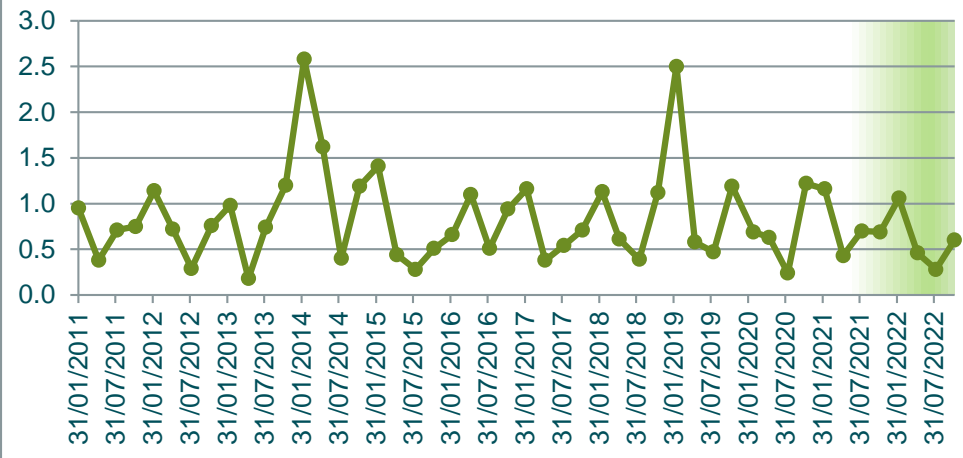


Nitrogen Oxidised
mg/L

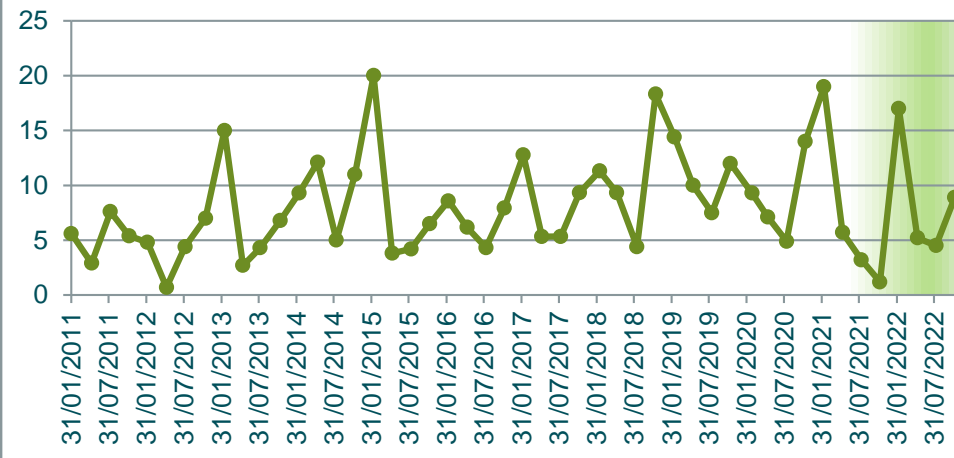




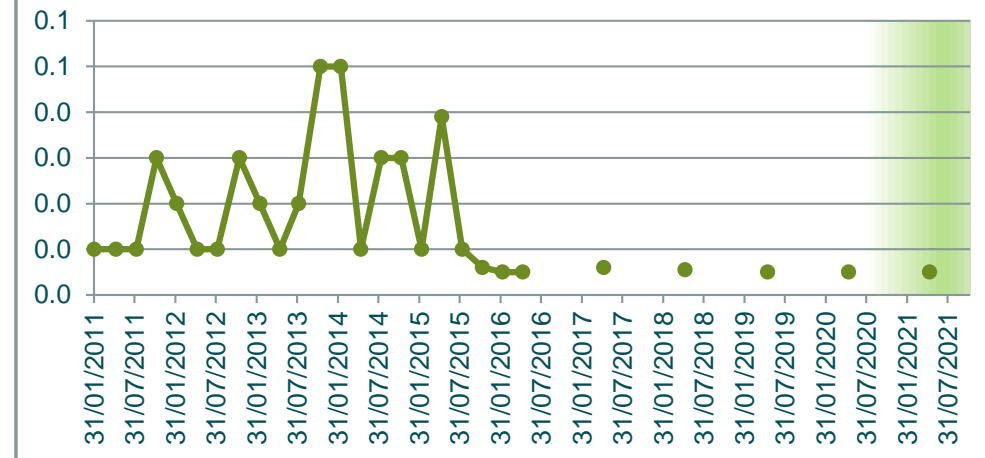
**TKN
mg/L**



**TOC
mg/L**

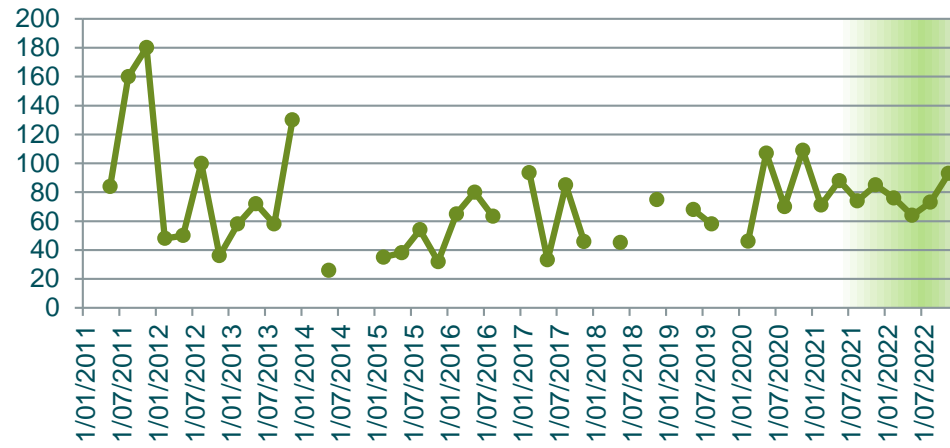


**Zinc (Total)
mg/L**

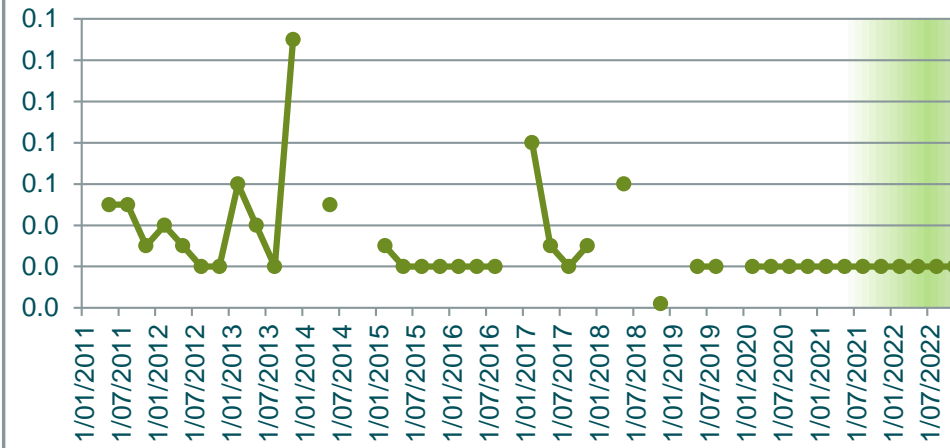


9/11/2022	93	0.0		3.9		27	18		230		3.1		4.2			0.0	0.0	0.0	0.8		6.9	0.1	3.1	139	10	14	1.2	0.8	9.8	
2022 Min	64	0.0	0.0	1.0	0.0	18	10	0.0	162	0.0	2.4	0.0	3.3	0.3	0.0	0.0	0.0	0.0	0.4	0.0	6.8	0.0	2.1	124	8	4	1.2	0.4	6.1	0.0
2022 Max	93	0.0	0.0	3.9	0.0	27	18	0.0	230	0.0	3.9	0.0	4.2	0.3	0.0	0.0	0.0	0.0	1.4	0.0	6.9	0.2	3.1	286	10	23	2.0	1.4	10.0	0.0
2022 Mean	77	0.0	0.0	2.7	0.0	22	13	0.0	193	0.0	3.1	0.0	3.6	0.3	0.0	0.0	0.0	0.0	0.9	#####	6.8	0.1	2.8	200	9	14	1.6	0.9	8.4	0.0
Long-term Average	73	0.0	0.0	5.0	0.0	22	19	0.0	217	0.0	3.0	0.0	4.0	1.1	0.0	0.1	0.0	0.1	0.9	0.0	6.5	0.1	4.2	181	12	56	6.3	0.9	8.4	0.0

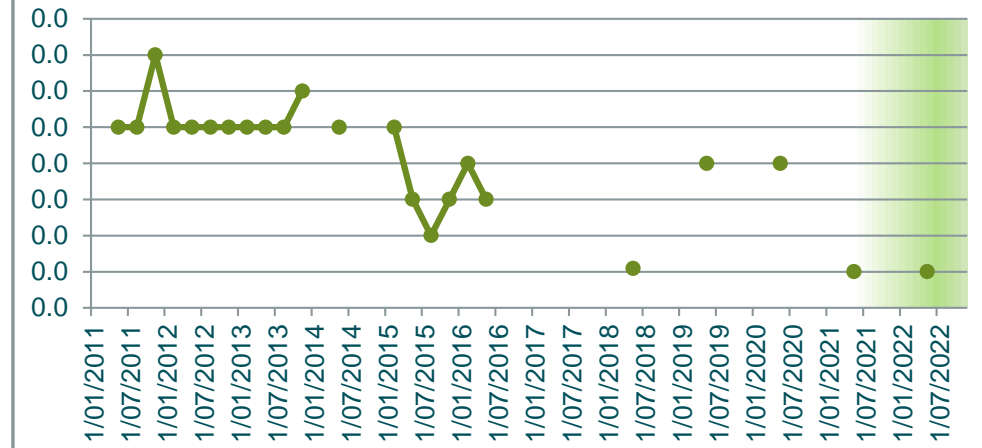
**Alkalinity
mg/L as CaCO3**



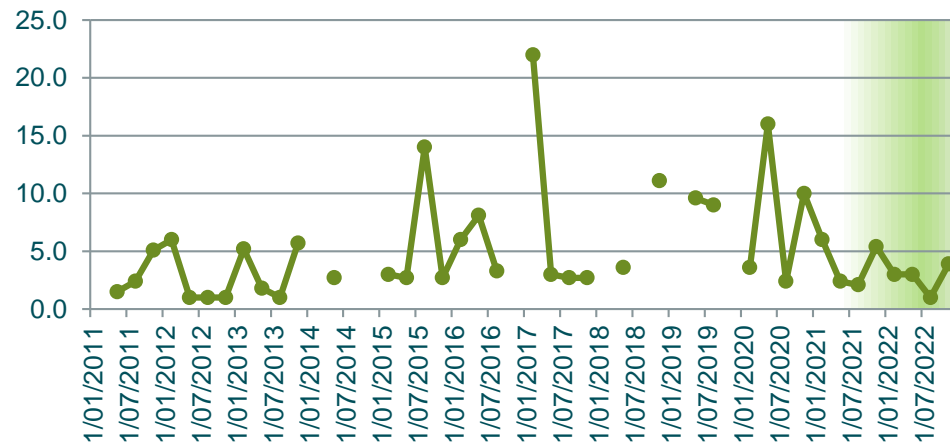
**Ammonia
mg/L**



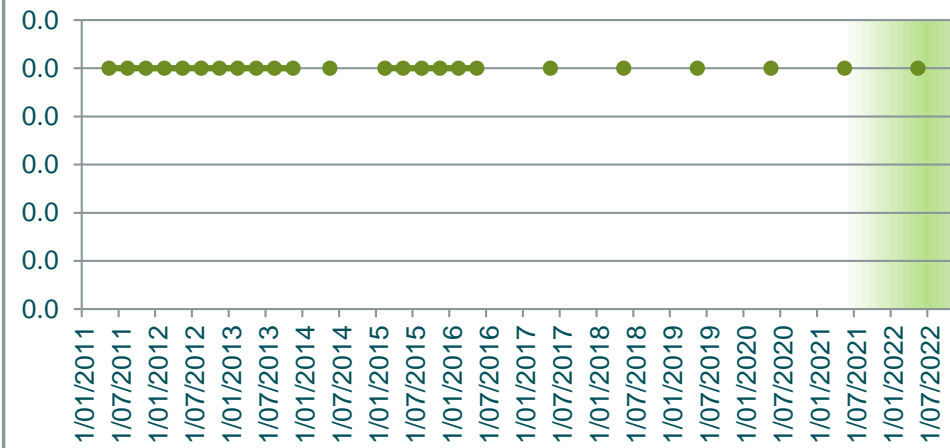
**Arsenic (Total)
mg/L**



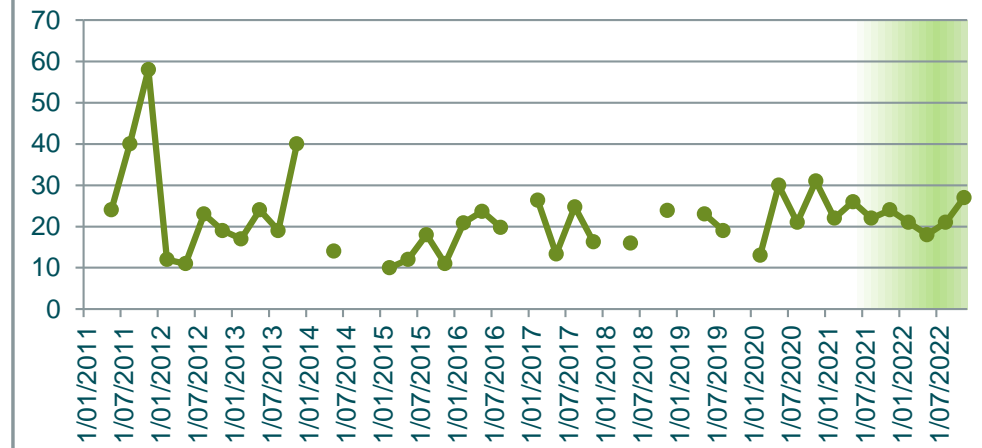
**BOD5
mg/L**



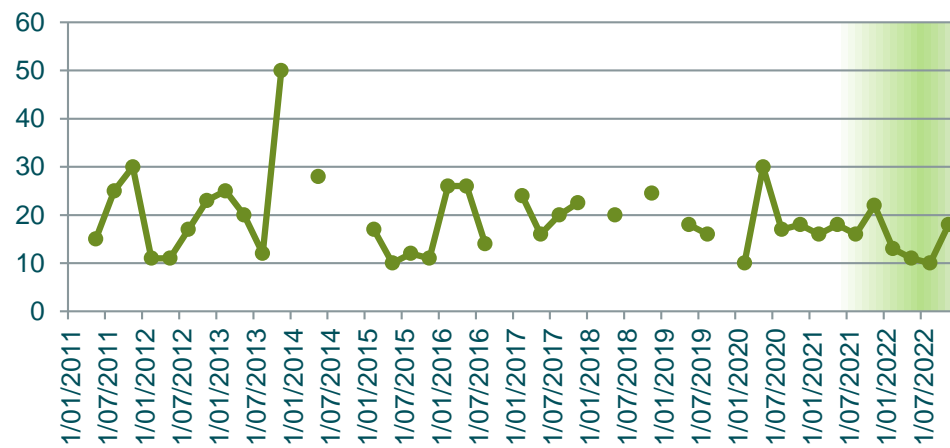
**Cadmium (Total)
mg/L**



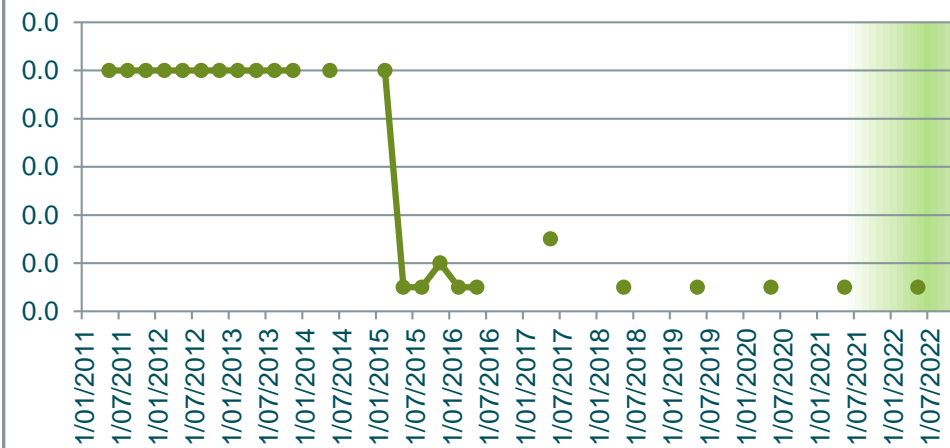
**Calcium (Total)
mg/L**



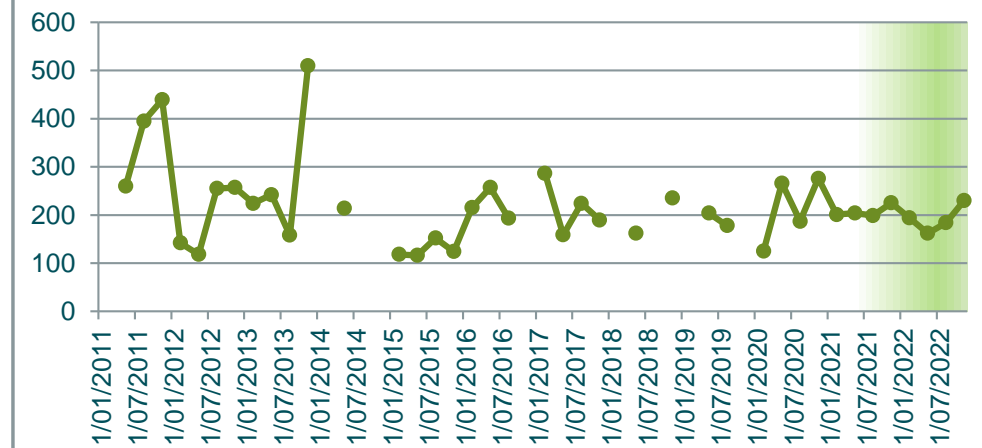
**Chloride
mg/L**

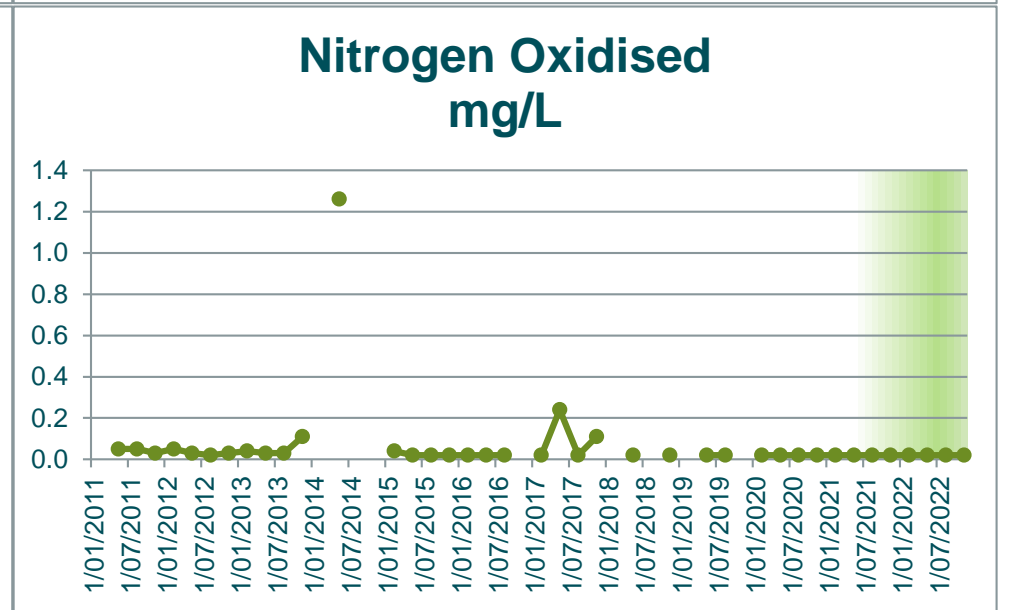
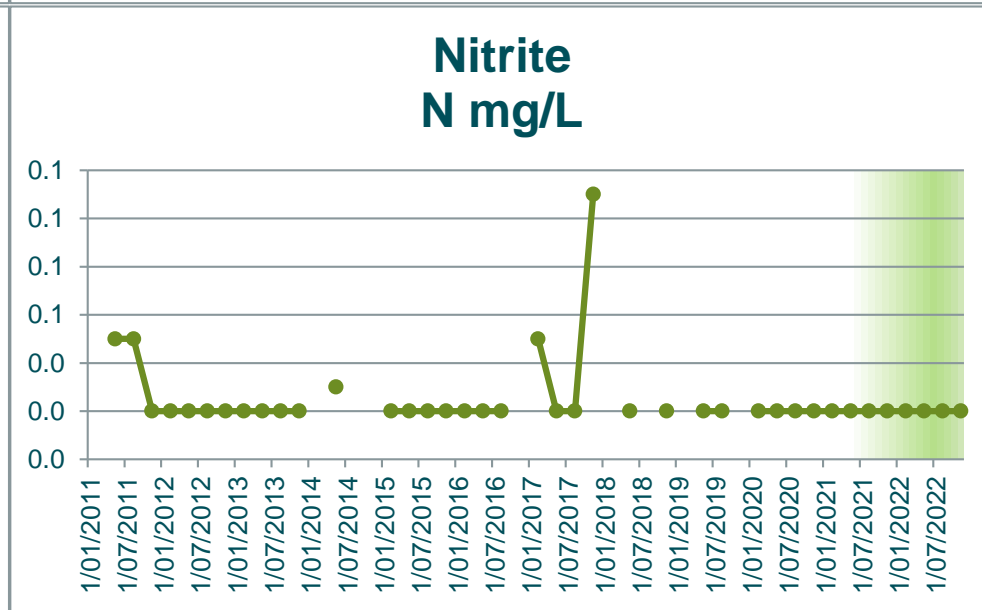
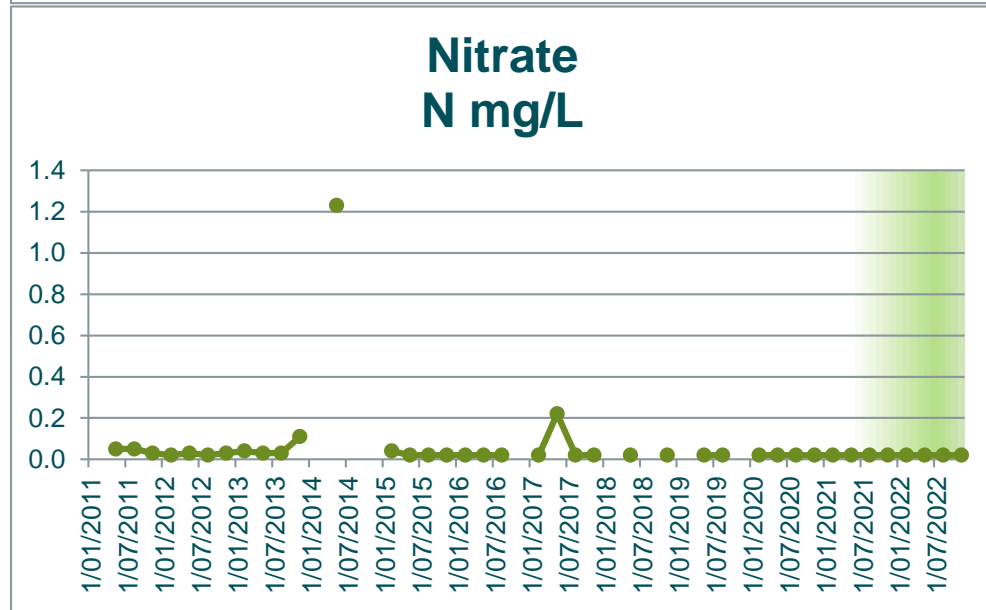
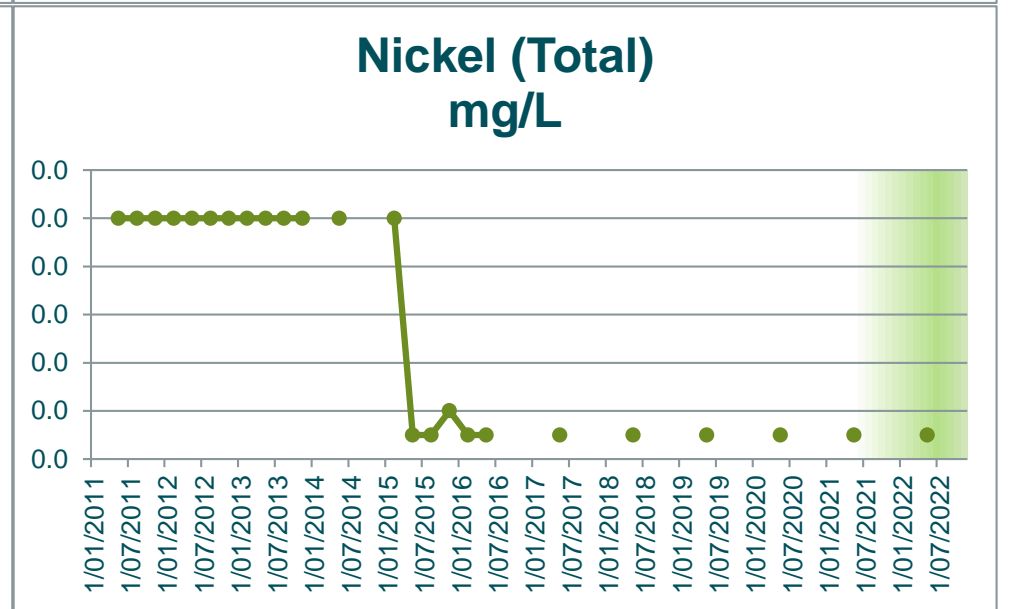
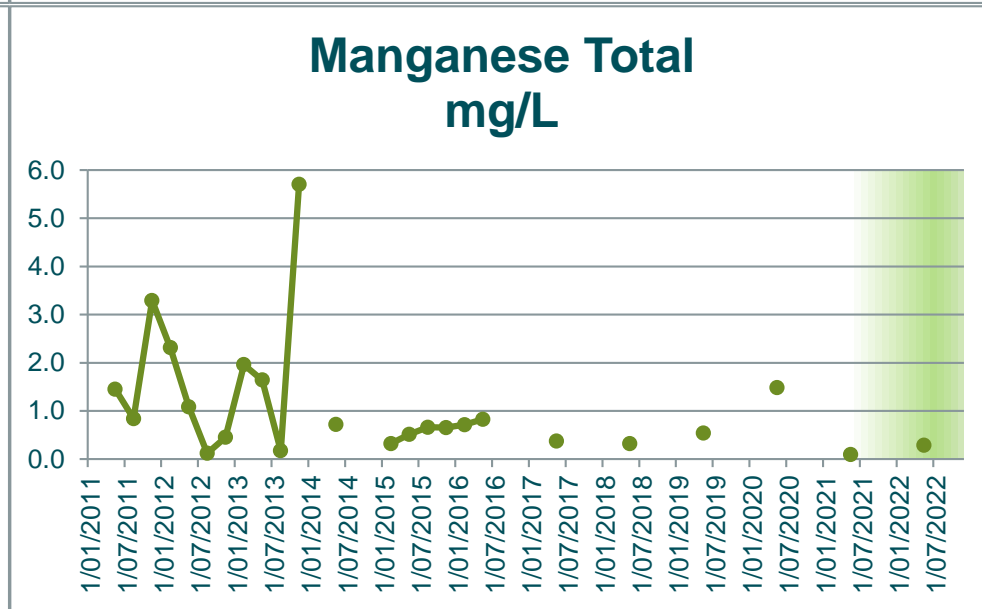
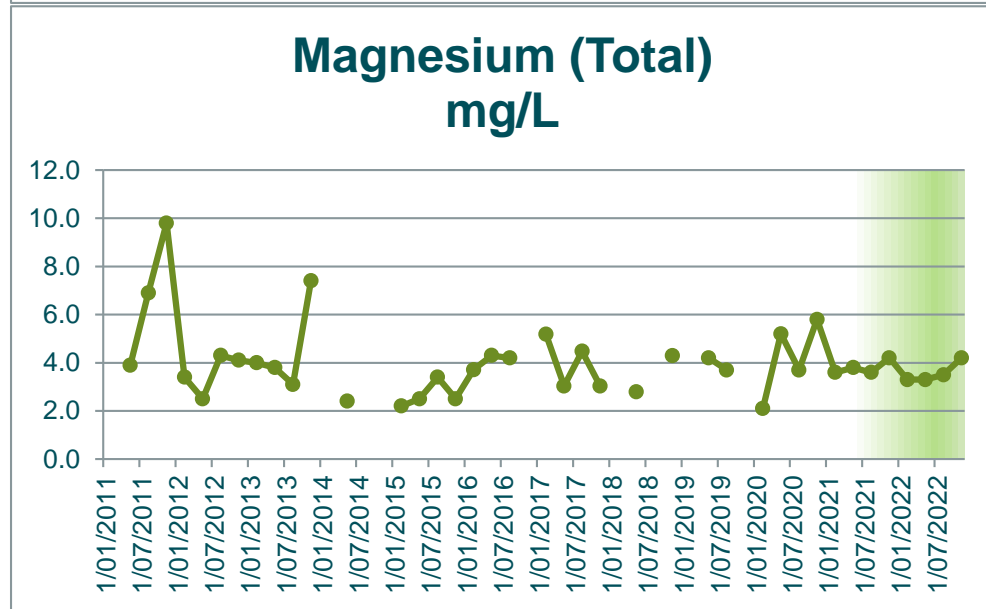
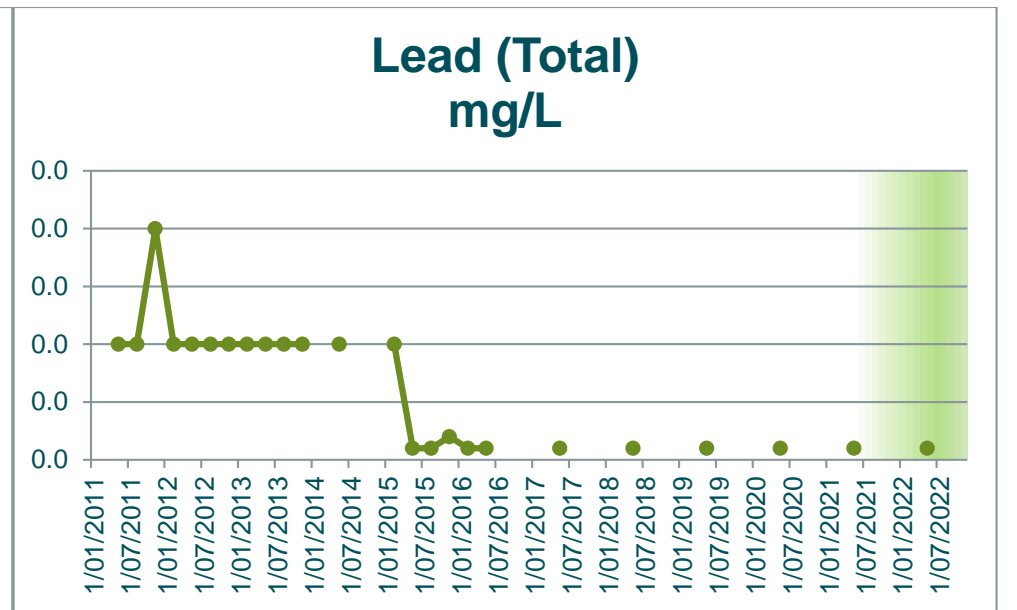
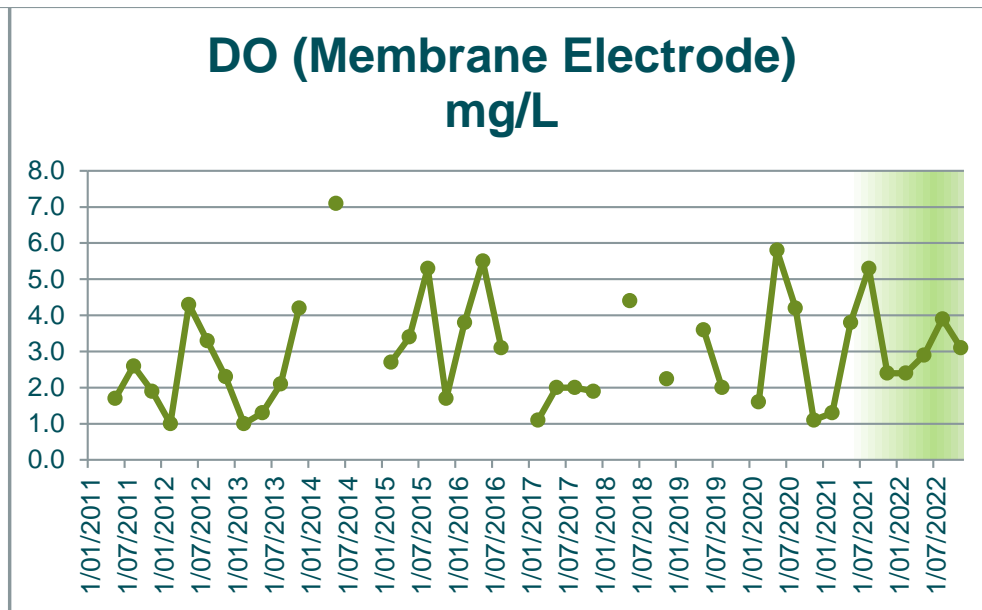
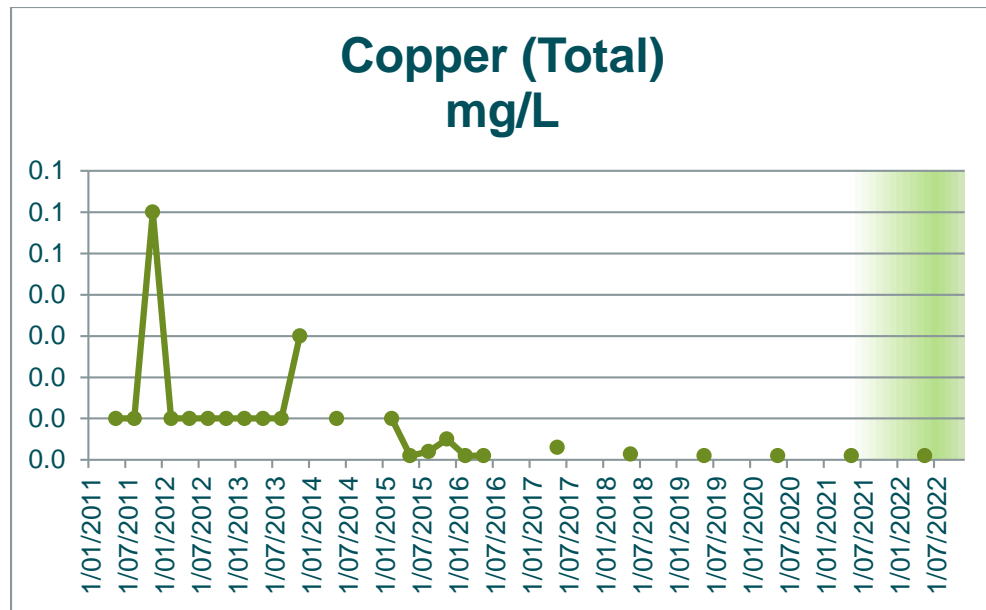


**Chromium (Total)
mg/L**

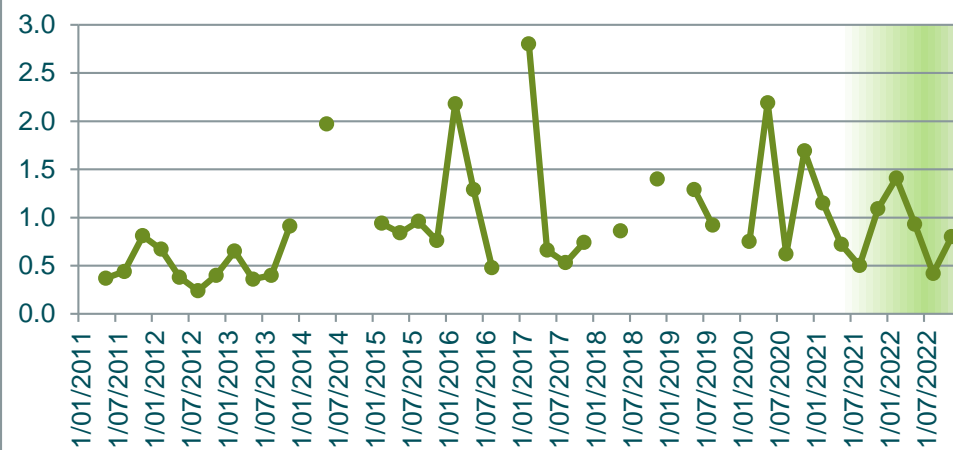


**Conductivity
µScm-1**

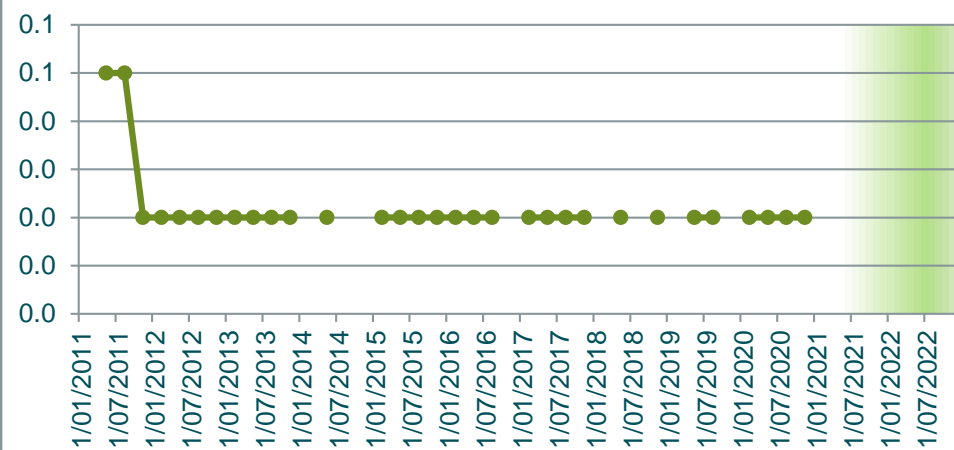




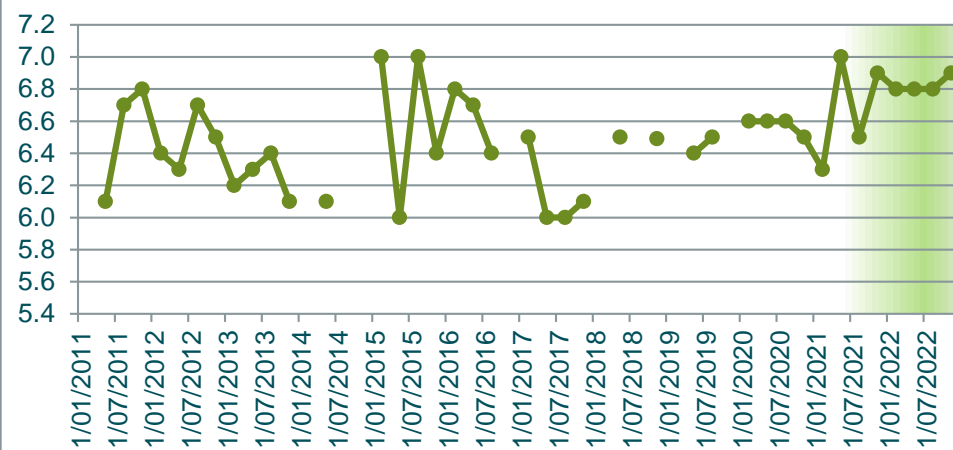
Nitrogen Total mg/L



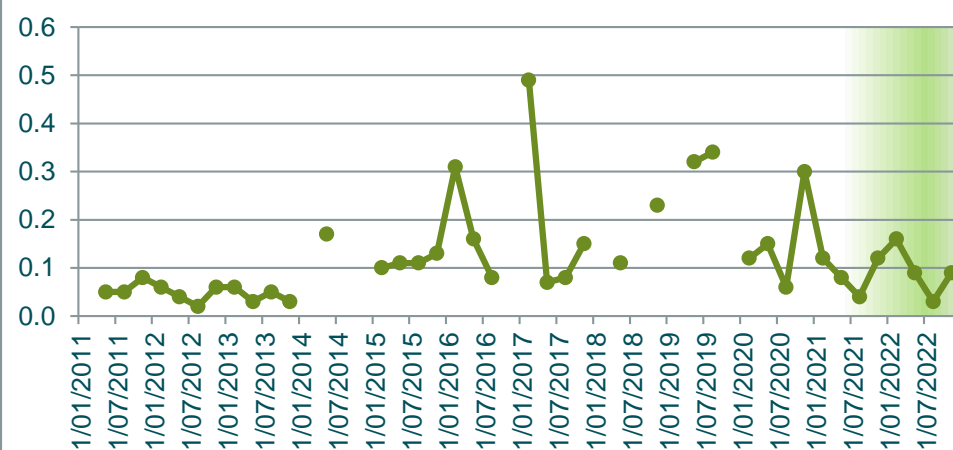
Orthophosphate mg/L



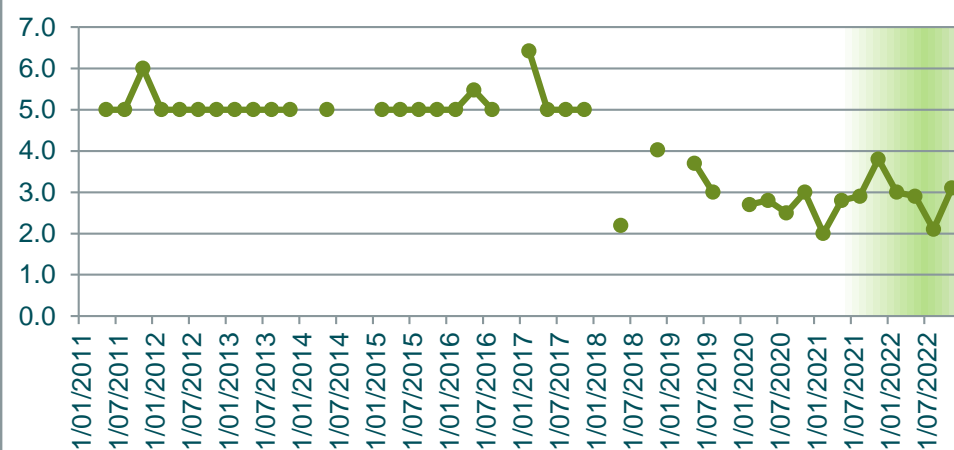
pH pH units



Phosphorus Total mg/L



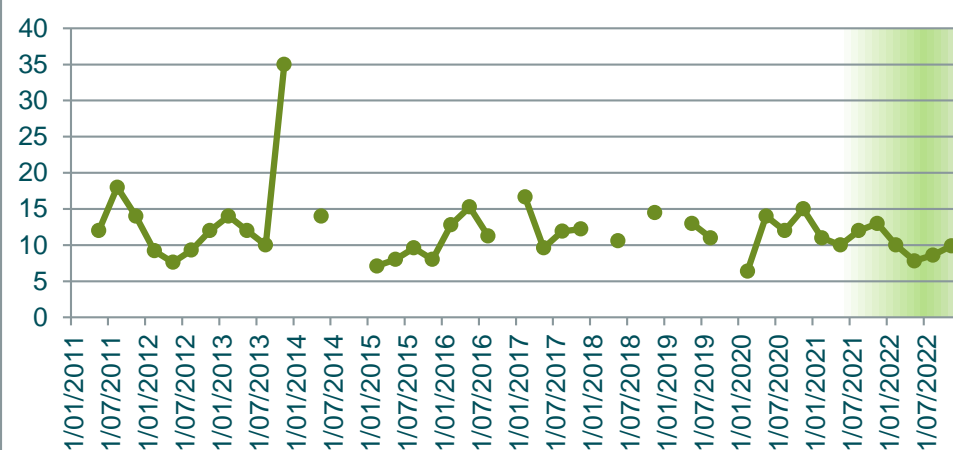
Potassium Total mg/L



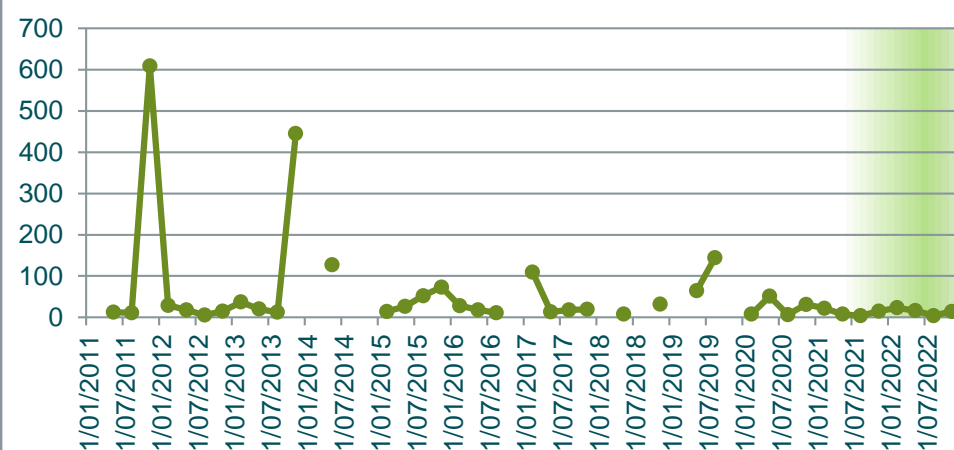
Redox Potential mV



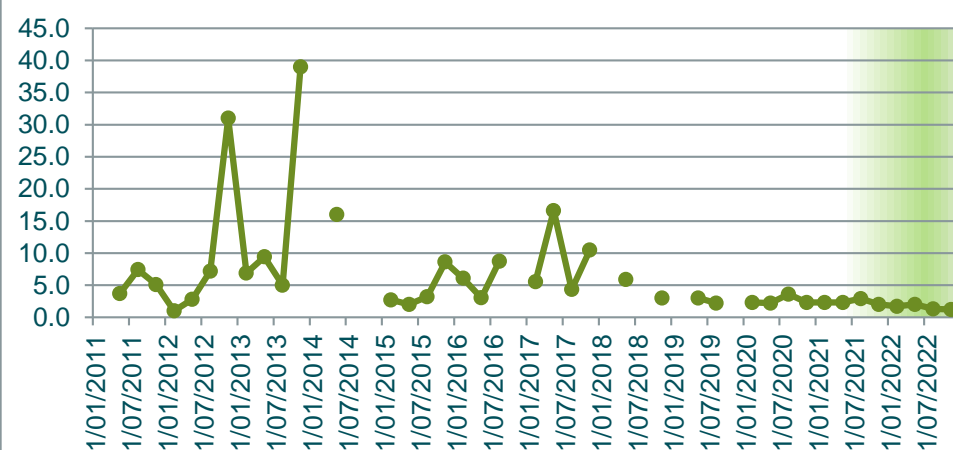
Sodium (Total) mg/L



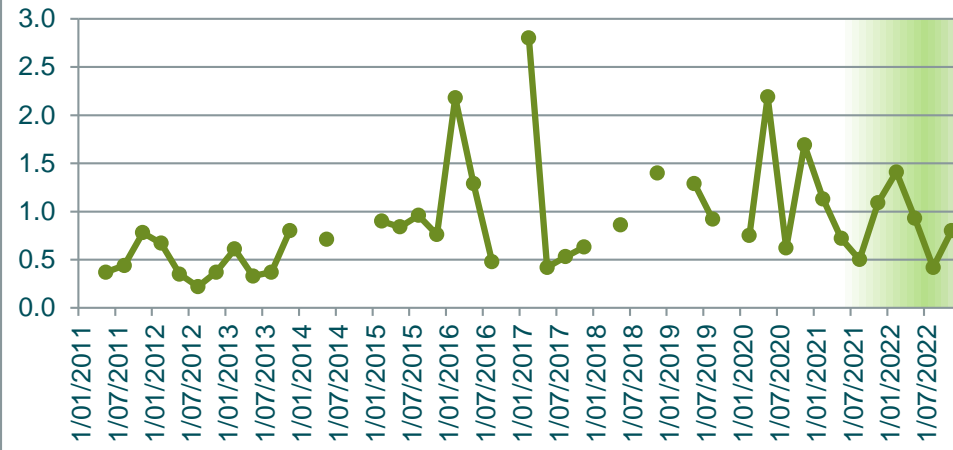
Solids Suspended mg/L



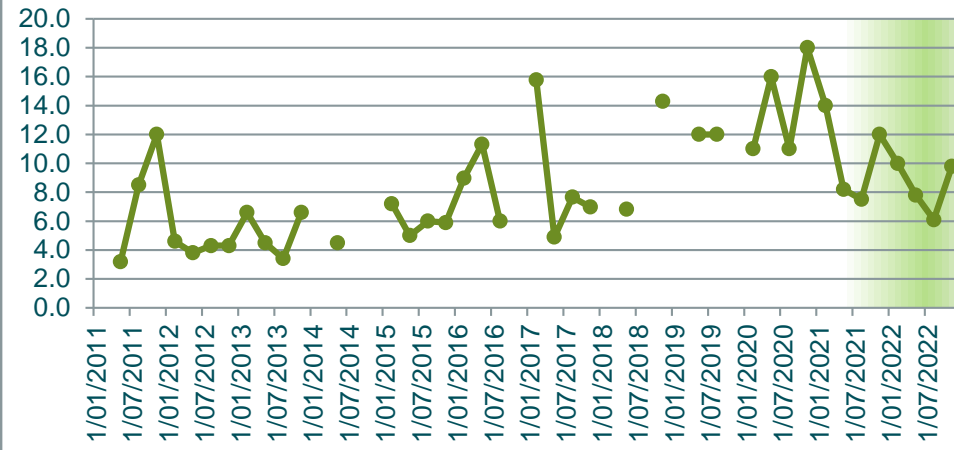
Sulphate mg/L



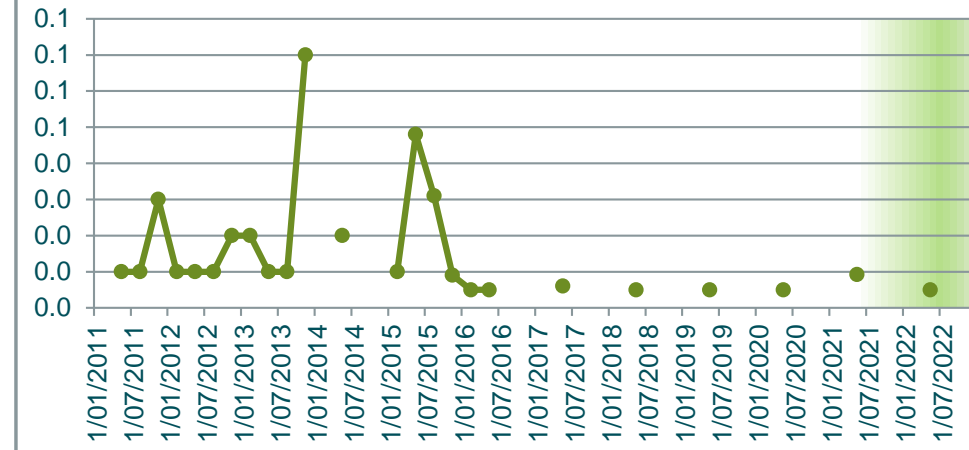
TKN mg/L



TOC mg/L

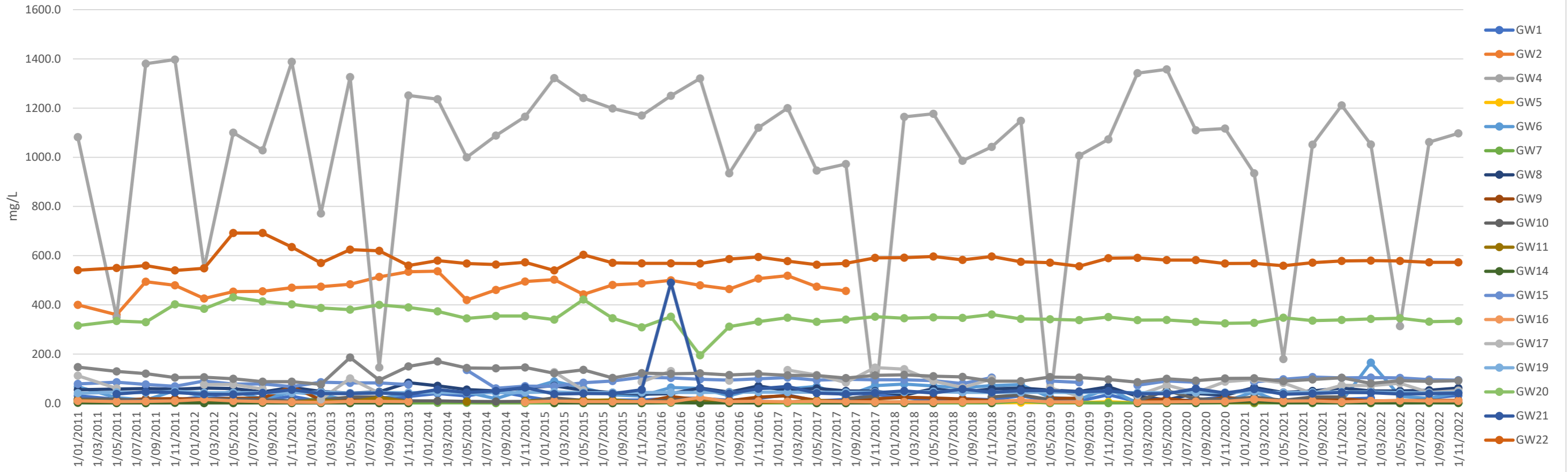


Zinc (Total) mg/L

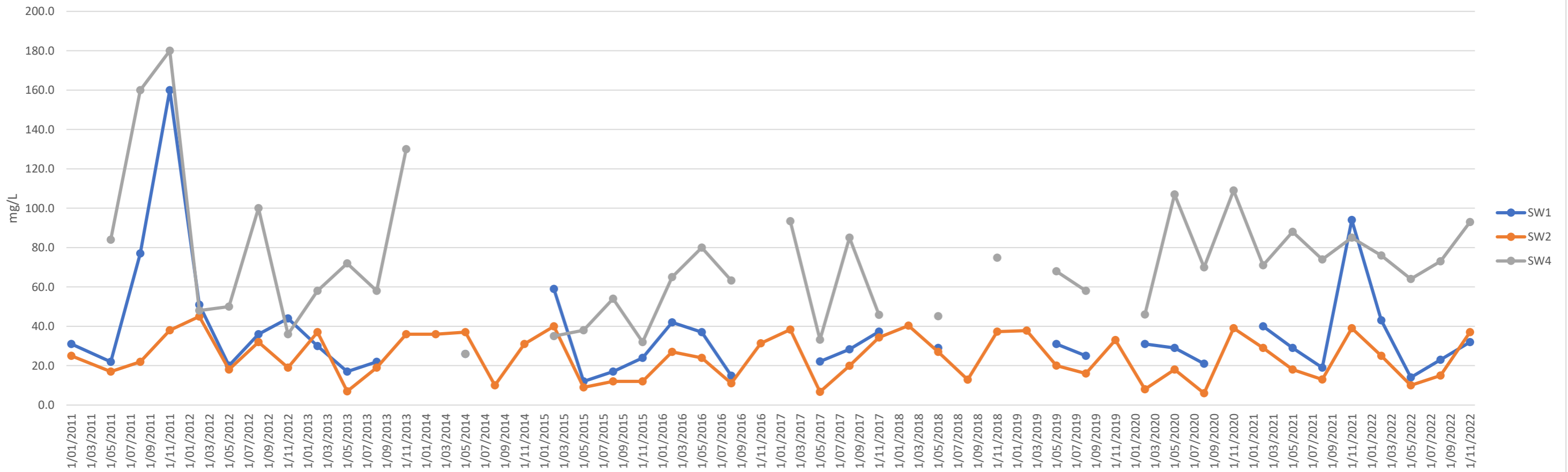


Appendix D – Water Quality Monitoring Graphs of each Parameter

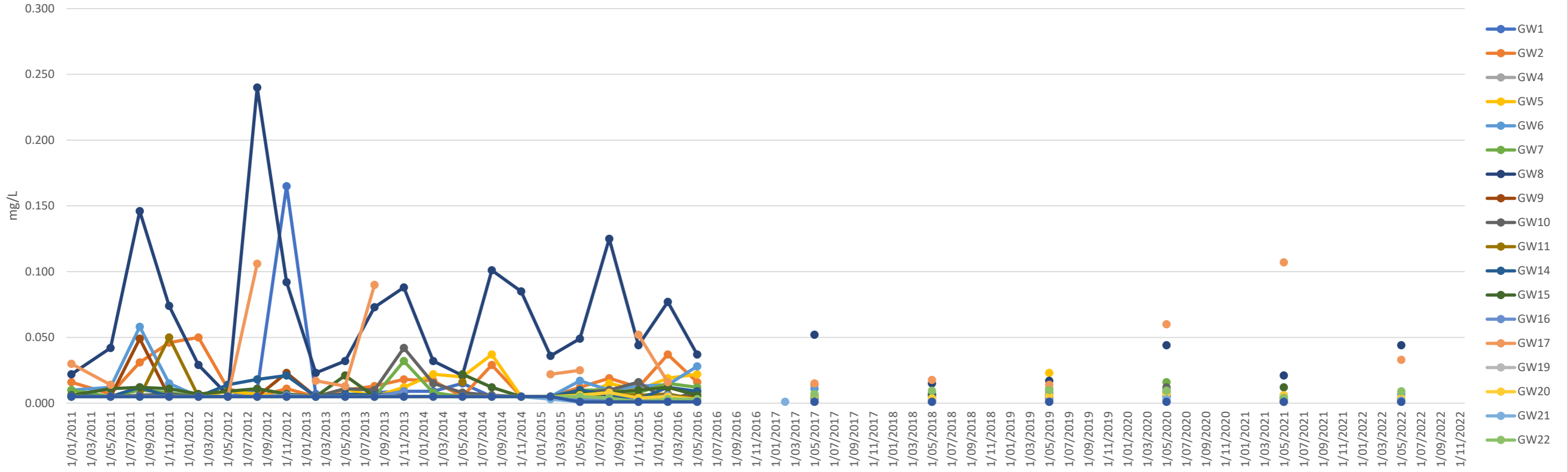
Alkalinity (mg/L as CaCO₃)



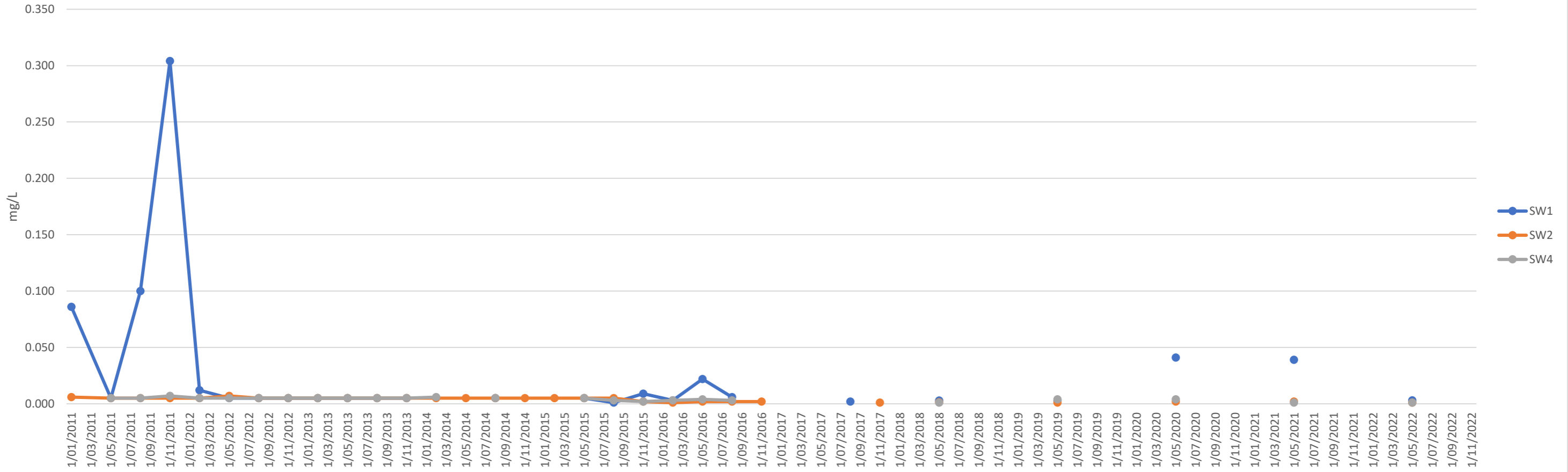
Alkalinity (mg/L as CaCO₃)



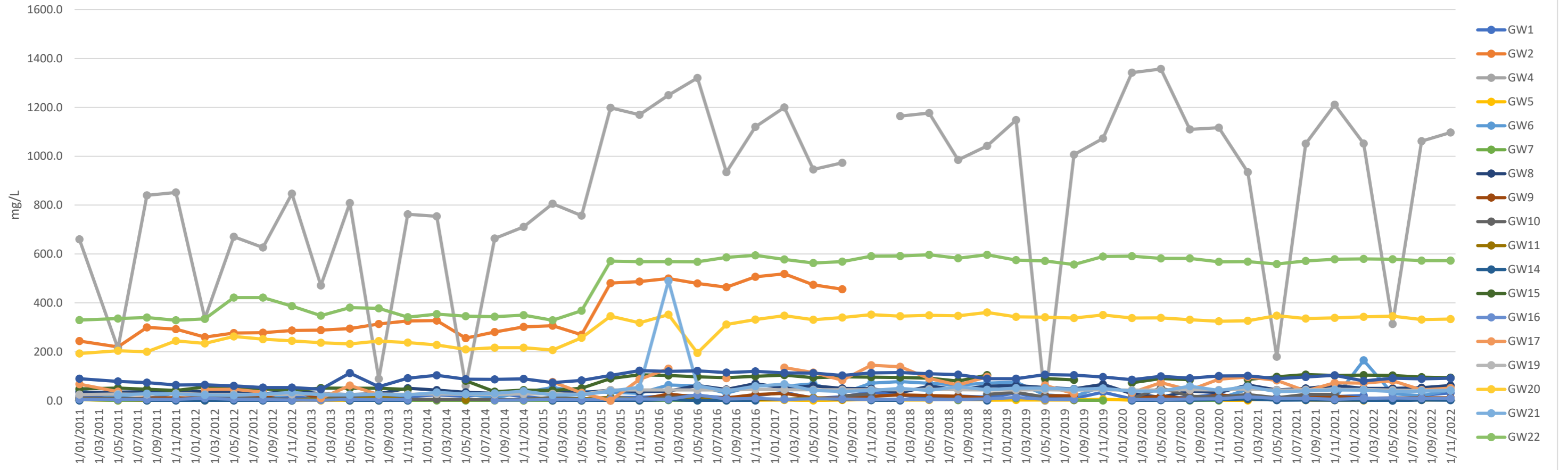
Total Arsenic (mg/L)



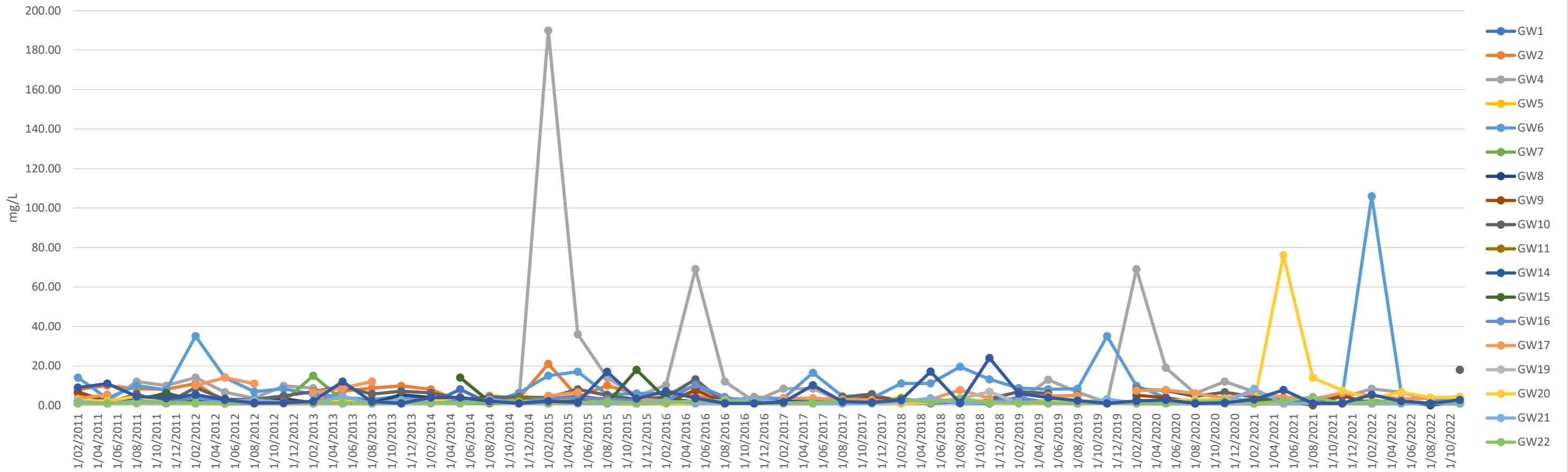
Total Arsenic (mg/L)



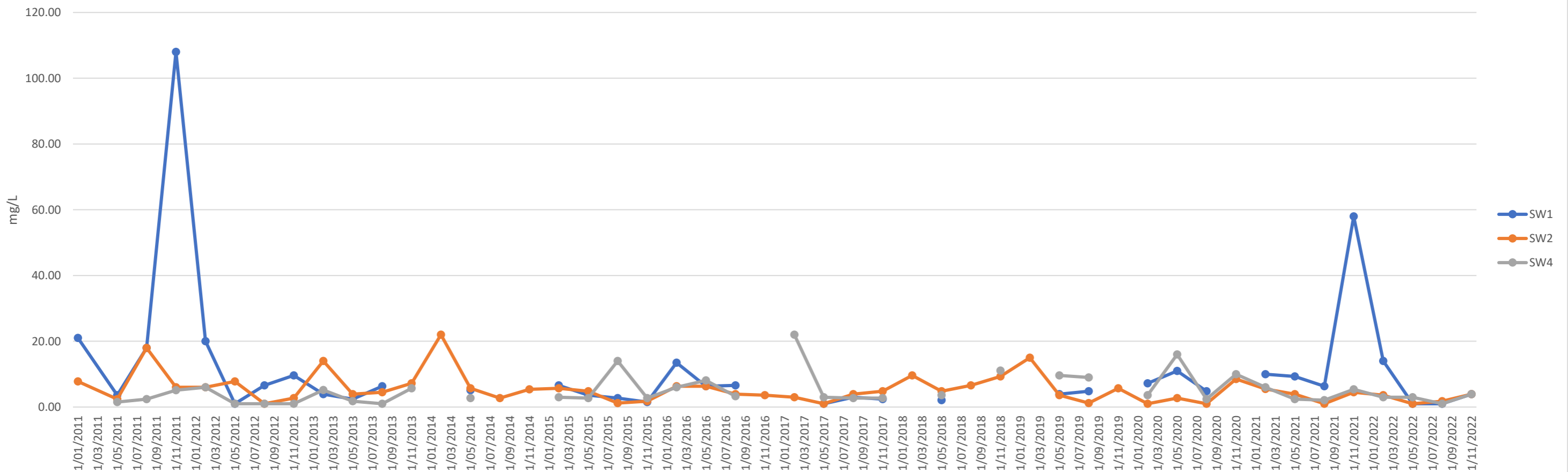
Bicarbonate HCO₃ (mg/L)



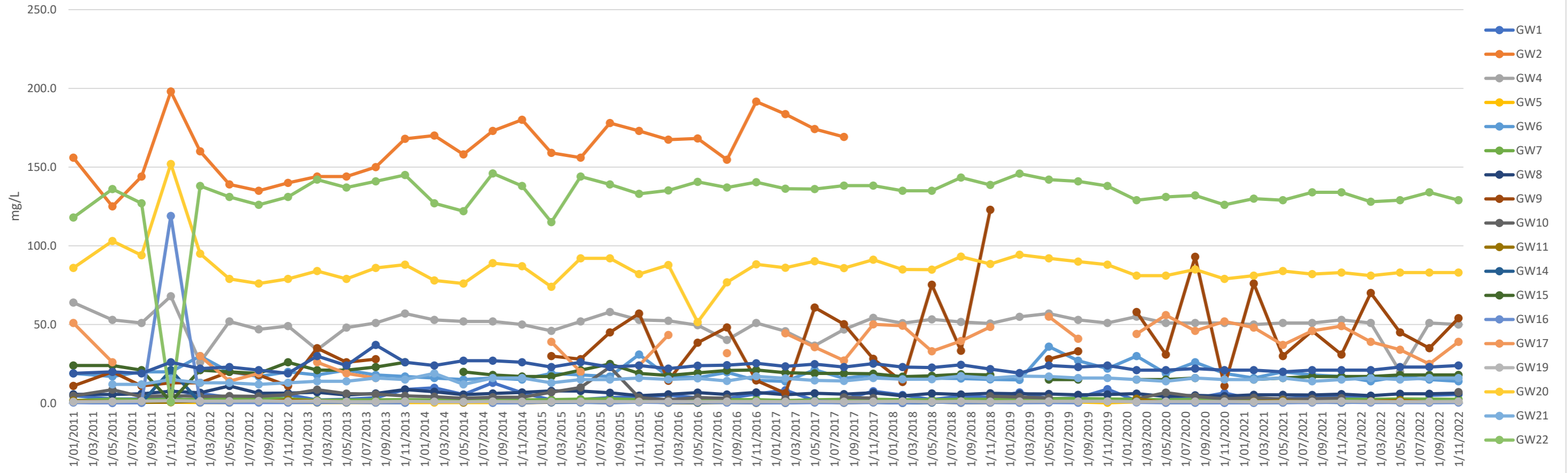
Biological Oxygen Demand (mg/L)



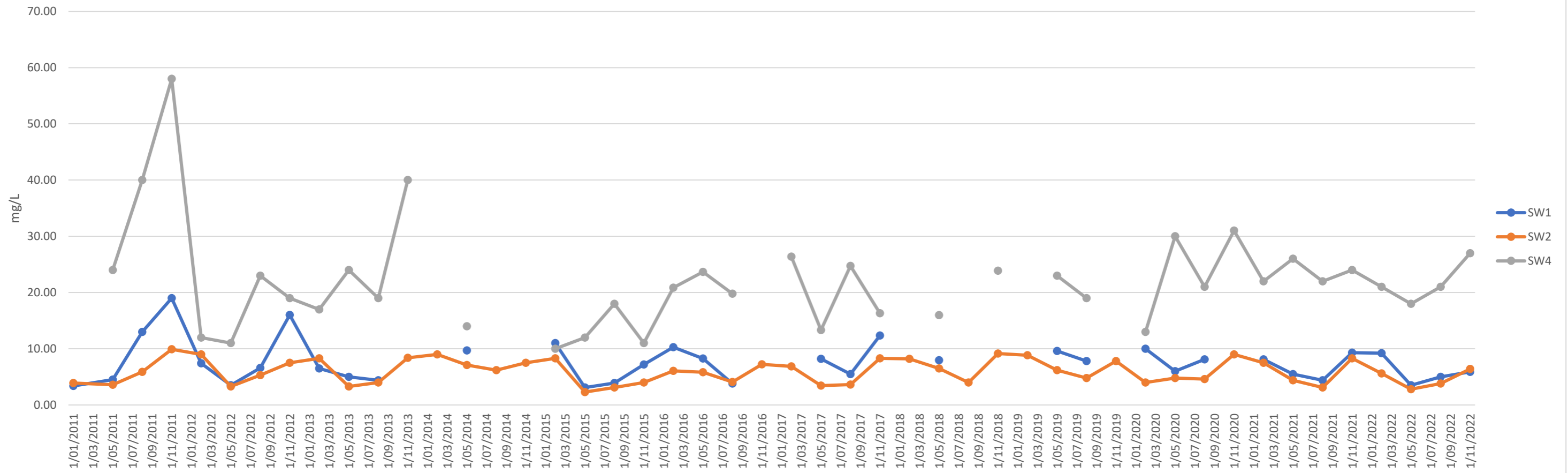
Biological Oxygen Demand (mg/L)



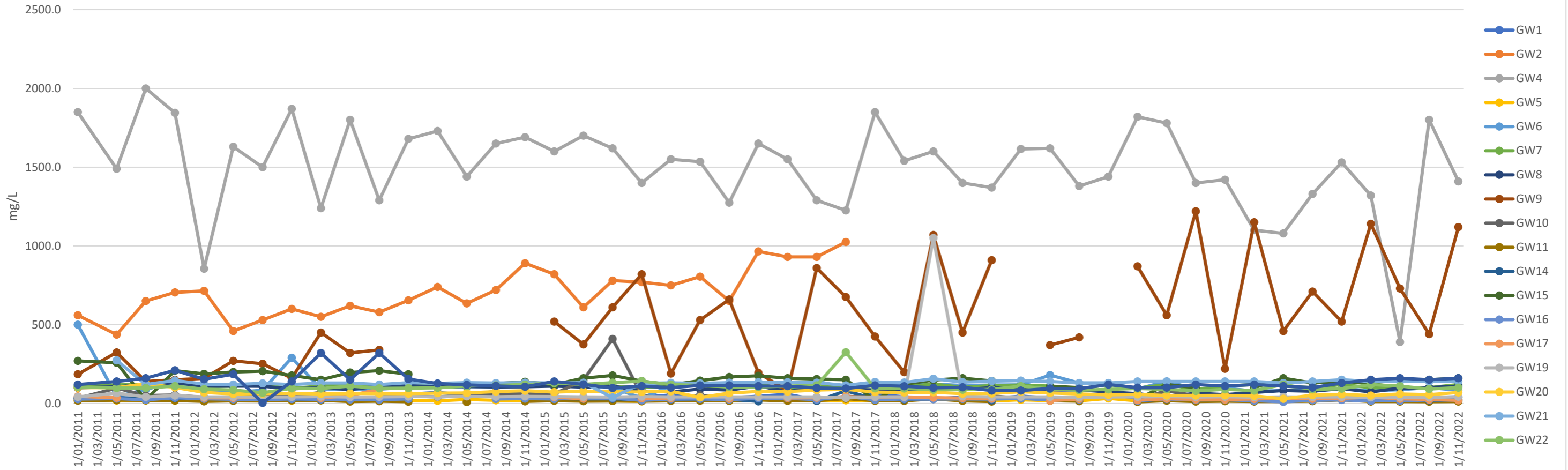
Calcium (mg/L)



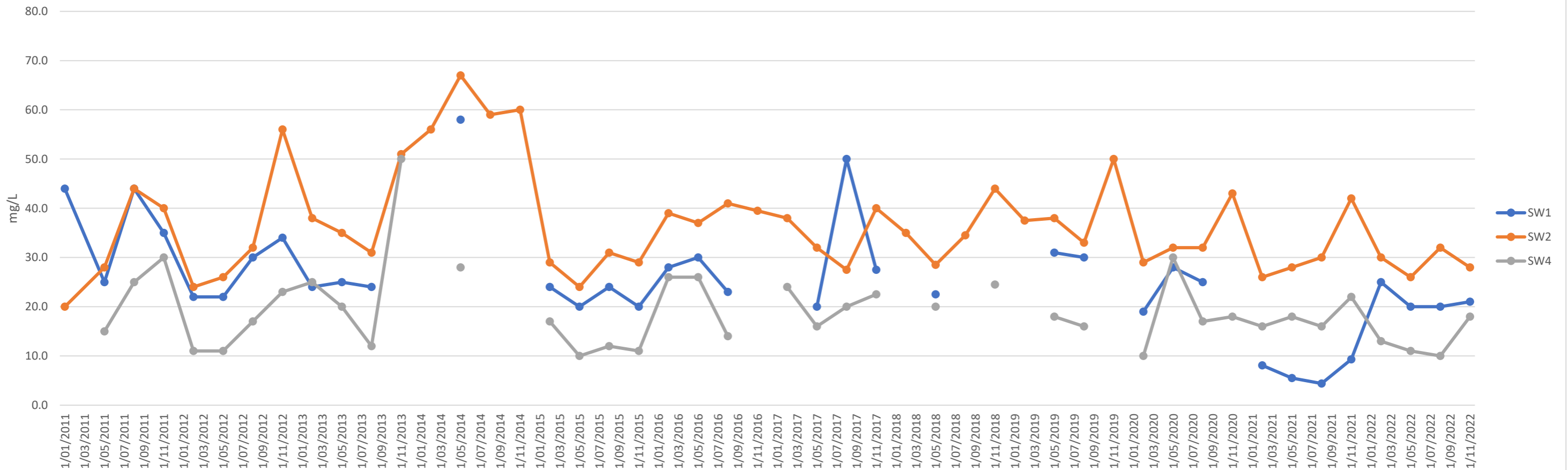
Calcium (mg/L)



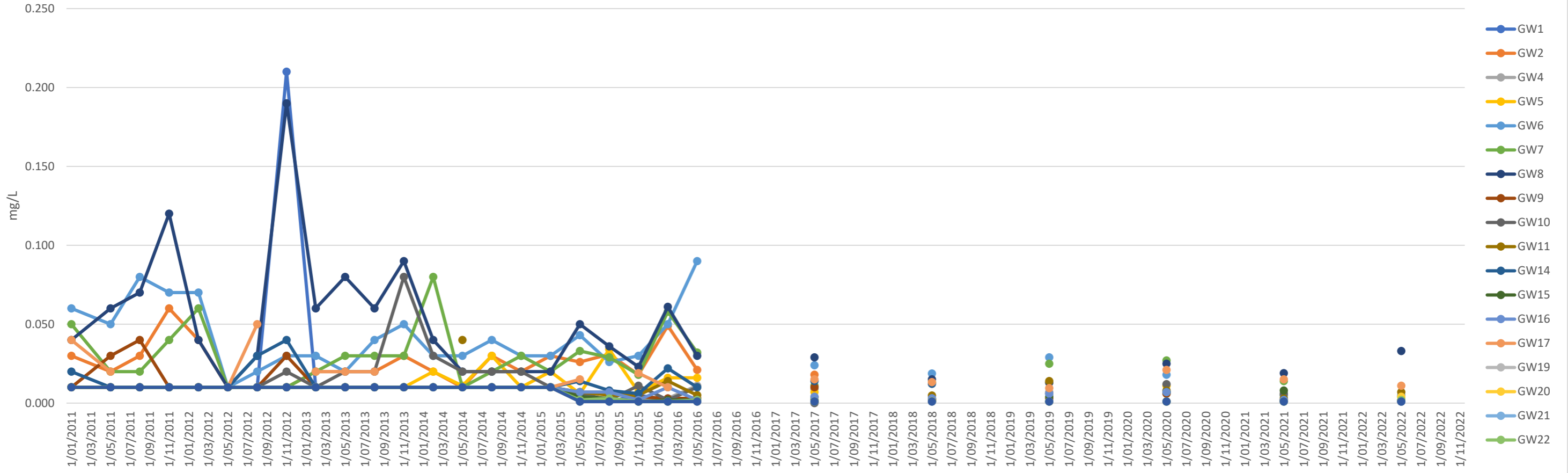
Chloride (mg/L)



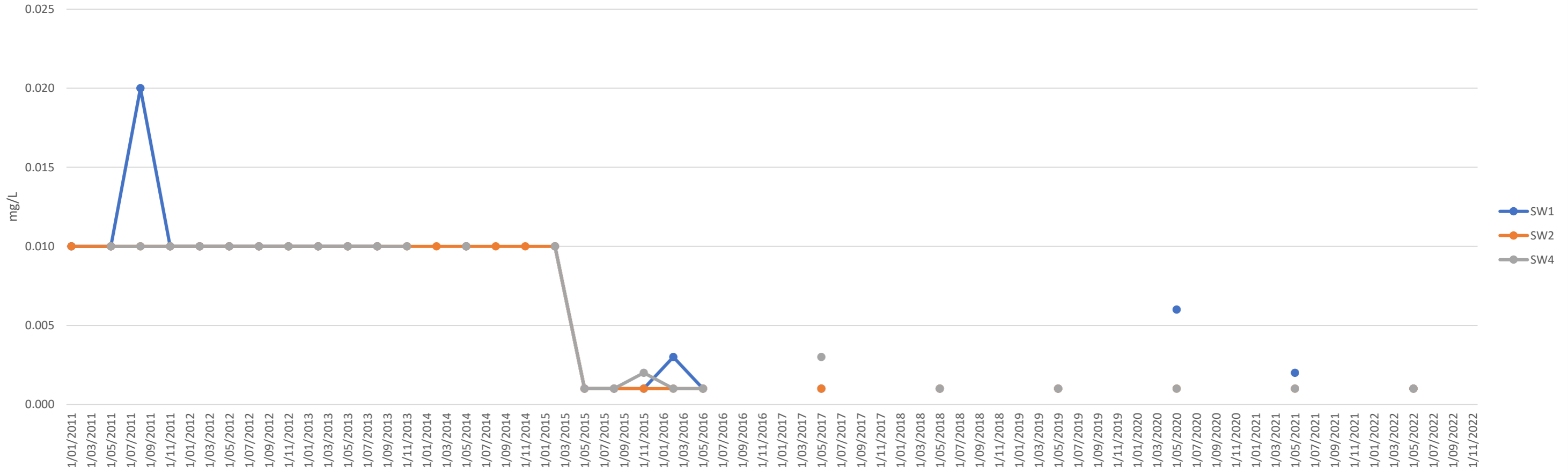
Chloride (mg/L)



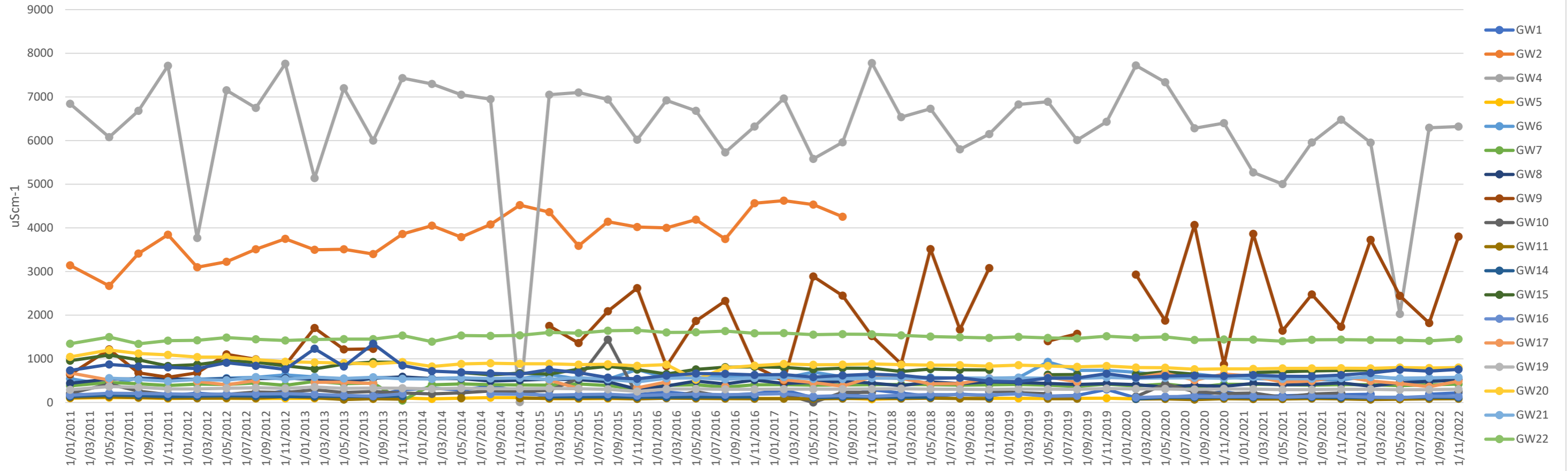
Total Chromium (mg/L)



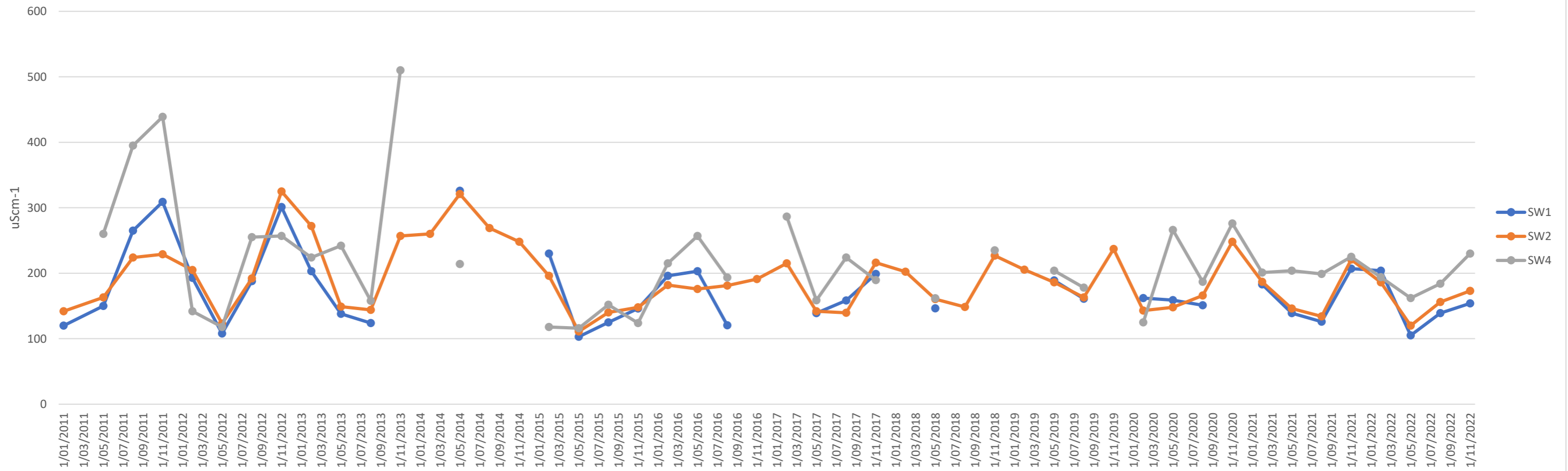
Total Chromium (mg/L)



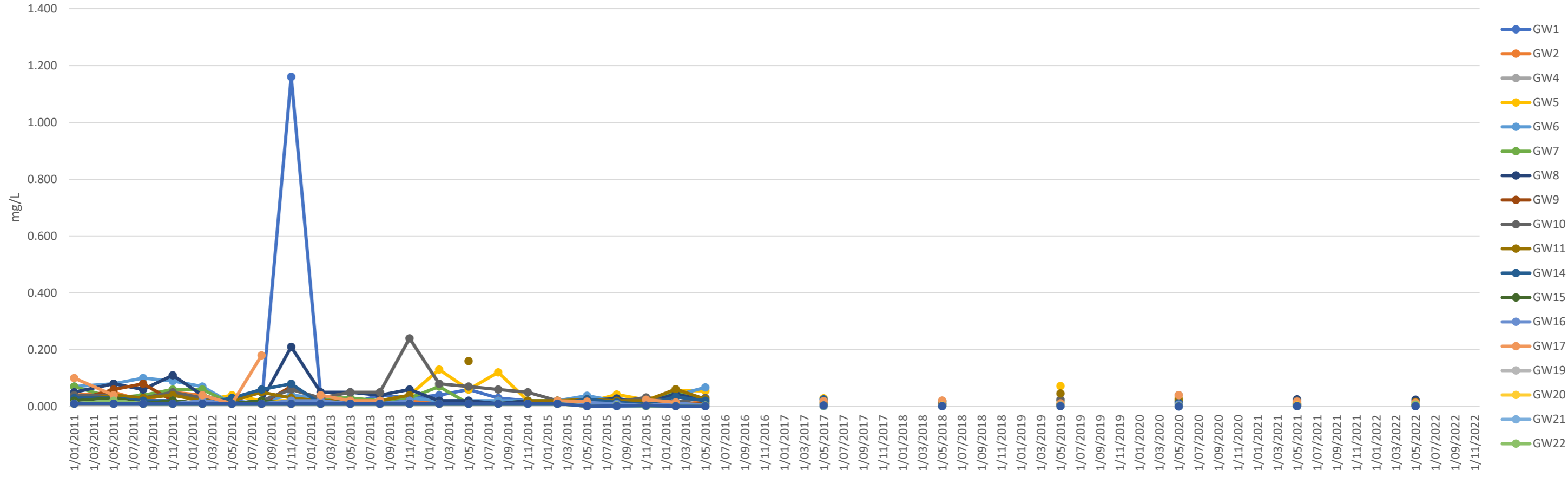
Conductivity (uScm⁻¹)



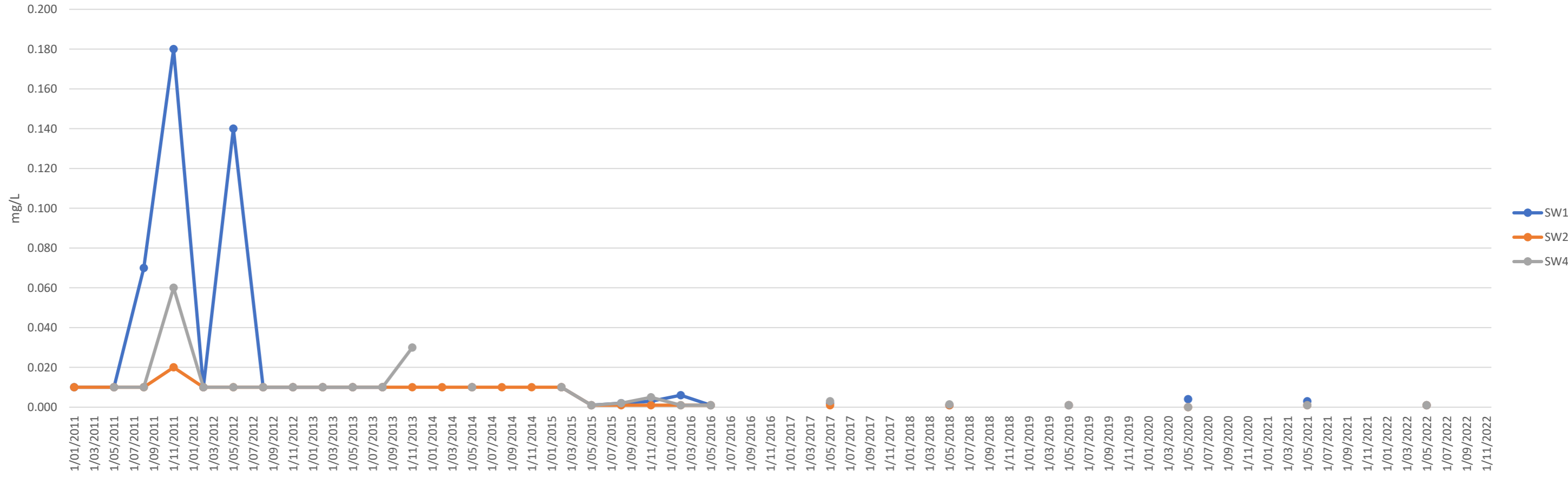
Conductivity (uScm⁻¹)



Total Copper (mg/L)



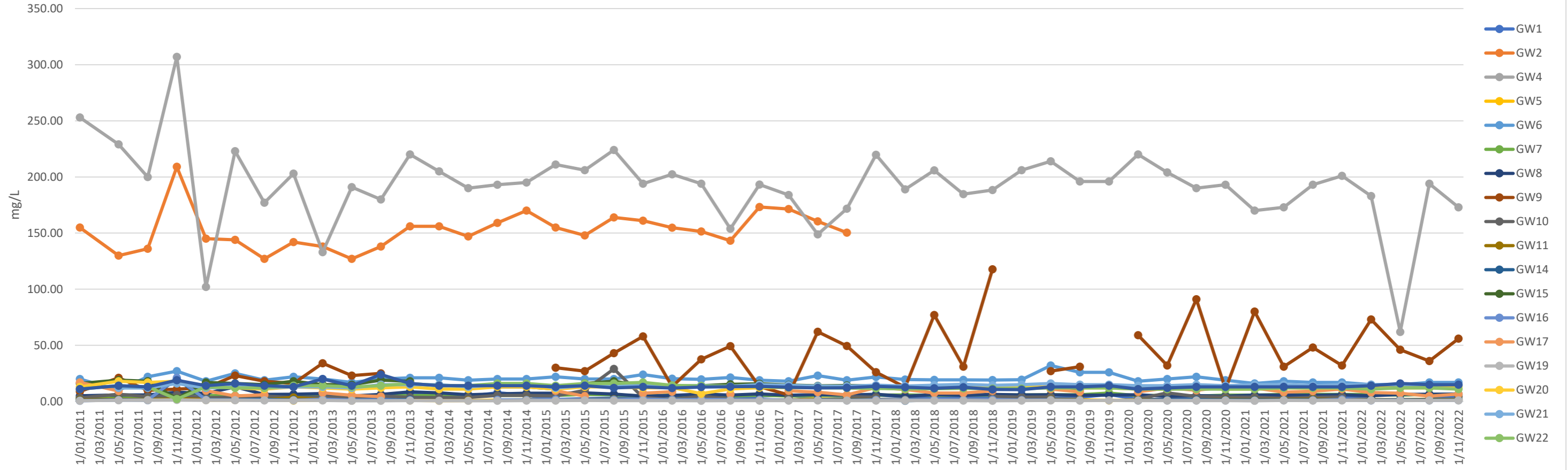
Total Copper (mg/L)



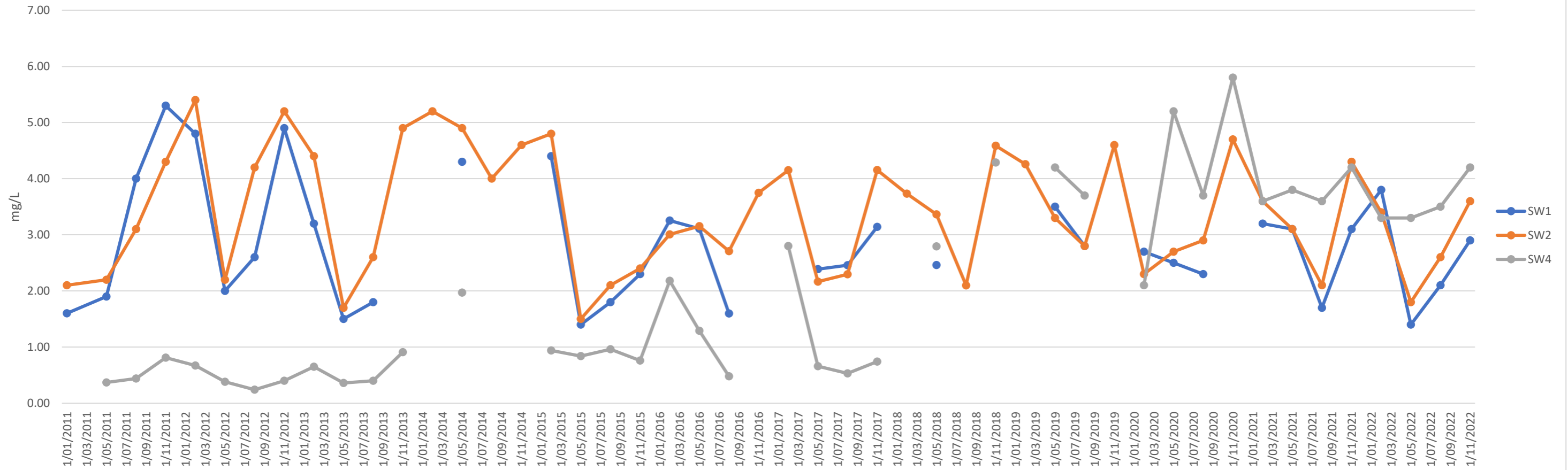
Mg	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	2.50	155.00	253.00	1.00	20.00	3.60	5.00	8.80	3.20	1.50	0.90	16.00	0.60	17.00	0.70	13.00		11.00	11.00
10/05/2011	2.60	130.00	229.00	1.40	10.00	4.30	5.80	21.00	6.40	2.00	1.60	19.00	1.20	9.30	1.10	18.00	12.00	14.00	14.00
9/08/2011	3.40	136.00	200.00	1.20	22.00	4.10	5.80	10.00	4.30	1.70	1.40	18.00	1.10		1.20	17.00	12.00	13.00	13.00
8/11/2011	4.20	209.00	307.00	2.20	27.00	5.90	8.30	11.00	5.80	2.50	20.00	2.40	21.00		1.40	18.00	16.00	2.10	19.00
6/02/2012	4.20	145.00	102.00	1.30	18.00	5.30	7.20	12.00	3.40	1.90	1.70	17.00	1.60	9.70	1.10	14.00	12.00	13.00	14.00
8/05/2012	3.30	144.00	223.00	1.20	25.00	5.20	13.00	23.00	3.90	1.40	1.50	16.00	1.40	4.90	1.10	12.00	13.00	12.00	16.00
6/08/2012	3.20	127.00	177.00	1.50	19.00	4.70	6.20	18.00	4.70	1.70	1.80	15.00	1.30	6.00	1.00	11.00	12.00	12.00	14.00
13/11/2012	4.90	142.00	203.00	0.80	22.00	5.10	6.50	16.00	3.50	3.60	1.40	18.00	1.10		1.00	13.00	13.00	14.00	13.00
13/02/2013	2.20	138.00	133.00	1.20	20.00	4.60	7.00	34.00	3.90	1.90	1.30	15.00	2.00	7.60	1.00	12.00	13.00	14.00	20.00
14/05/2013	2.20	127.00	191.00	1.00	17.00	4.30	4.90	23.00	4.00	0.80	1.10	15.00	1.30	5.50	0.60	11.00	12.00	13.00	14.00
6/08/2013	2.50	138.00	180.00	1.00	20.00	5.20	6.30	25.00	4.90	1.30	1.30	19.00	1.10	4.30	0.60	12.00	15.00	14.00	24.00
12/11/2013	6.30	156.00	220.00	1.00	21.00	5.10	8.50		3.70	1.20	1.50	18.00	1.10		0.80	13.00	15.00	16.00	16.00
11/02/2014	6.50	156.00	205.00	0.70	21.00	5.60	7.60		3.50						0.70	11.00	15.00	14.00	14.00
13/05/2014	4.50	147.00	190.00	0.80	19.00	4.90	5.90		3.50	1.10		12.00			0.60	11.00	13.00	14.00	14.00
12/08/2014	7.80	159.00	193.00	1.20	20.00	5.40	6.70		5.30			13.00	1.40		0.70	13.00	15.00	16.00	14.00
10/11/2014	5.50	170.00	195.00	1.50	20.00	5.50	7.40		5.40	1.70		13.00	1.40		0.80	13.00	16.00	16.00	14.00
9/02/2015	1.80	155.00	211.00	1.10	22.00	5.30	7.40	30.00	4.90	1.50	1.30	11.00	1.80	9.40	0.80	11.00	12.00	14.00	13.00
11/05/2015	2.40	148.00	206.00	1.40	20.00	6.20	7.60	27.00	10.00	1.80	1.50	16.00	1.60	4.80	0.90	13.00	14.00	16.00	14.00
11/08/2015	3.10	164.00	224.00	1.60	20.00	5.90	6.60	43.00	29.00	2.00	1.50	18.00	1.50		0.80	13.00	14.00	16.00	12.00
10/11/2015	4.00	161.00	194.00	1.60	24.00	4.90	4.70	58.00	3.50	1.80	1.40	14.00	2.10	7.40	0.80	12.00	14.00	17.00	13.00
8/02/2016	4.91	154.80	202.41	2.00	20.35	5.61	5.41	13.30	1.79	1.69	1.37	12.88	1.60	8.75	0.79	12.42	13.87	14.35	11.99
9/05/2016	3.41	151.48	193.99	1.24	19.74	4.91	6.61	37.58	4.73	1.74	1.34	14.10	1.82		0.71	6.94	14.14	13.89	12.87
9/08/2016	3.52	143.28	153.94	1.53	21.34	4.93	5.64	49.28	2.26	1.81	1.29	15.30	1.69	6.55	0.77	11.19	13.53	13.45	13.14
7/11/2016	4.67	173.28	193.15	1.43	18.88	5.62	6.80	13.20		1.49	1.58	15.76	1.51		0.78	12.26	14.96	13.12	13.42
7/02/2017	5.86	171.42	183.96	1.27	17.97	4.67	5.44	5.86	3.46	1.30		14.62	1.04	9.53	0.74	12.51	14.31	12.44	12.66
8/05/2017	1.81	160.42	148.84	2.32	23.08	5.33	6.14	62.09		1.56	1.66	13.88	1.18	8.23	0.88	12.99	13.60	12.25	12.10
8/08/2017	2.61	150.38	171.68	1.54	18.94	5.24	5.73	49.44	4.35	1.58	1.21	14.22	0.99	5.74	0.80	12.41	13.53	11.85	12.16
7/11/2017	5.69		219.81	1.34	21.81	5.73	6.40	26.15	3.87	1.86	1.51	13.93	1.52	12.41	0.79	13.01	14.50	11.66	13.46
14/02/2018	4.18		188.93	1.39	19.55	5.82	4.61	12.73		1.39	0.63	12.26	1.20	10.75	0.78	12.38	13.69	11.21	12.62
9/05/2018	2.47		205.80		19.26	5.45	6.16	77.06		1.92	1.28	13.12	1.87	7.48	0.72	12.35	14.48	11.28	11.73
15/08/2018	4.18		184.68	1.49	19.19	5.62	5.57	31.02		1.55		13.44	1.49	7.51	0.77	12.96	15.34	11.57	12.71
14/11/2018	3.02		188.39	1.42	19.13	5.80	6.20	117.73	4.47	1.75	1.47	13.31	1.68	9.43	0.69	12.41	14.42	11.46	10.75
13/02/2019	4.63		205.96	1.35	19.35	5.83	5.77		3.88				1.23		0.76	12.83	14.96	11.49	10.53
15/05/2019	2.70		214.00	1.30	32.00	5.90	6.00	27.00	4.00	1.90		11.00	1.40	11.00	0.90	13.00	16.00	12.00	13.00
14/08/2019	3.70		196.00	1.50	26.00	5.90	5.50	31.00		1.90		11.00	1.30	8.50	0.80	12.00	15.00	12.00	13.00
13/11/2019	6.20		196.00	1.00	26.00	7.50	5.60								0.90	12.00	15.00	12.00	14.00
25/02/2020	1.80		220.00	1.20	18.00	5.10	6.00	59.00	2.20	1.60	1.00	11.00	1.00	8.50	0.80	11.00	14.00	11.00	11.00
12/05/2020	1.90		204.00	1.40	20.00	5.60	4.50	32.00	7.60	1.40	1.40	11.00	0.90	12.00	0.80	11.00	14.00	11.00	12.00
11/08/2020	3.70		190.00	1.40	22.00	4.70	5.20	91.00	4.50	1.30	1.40	12.00	1.00	10.00	0.80	12.00	15.00	11.00	13.00
10/11/2020	5.20		193.00	1.40	19.00	5.70	4.70	11.00	4.00	1.90	1.40		0.90	13.00	0.80	11.00	14.00	11.00	13.00
10/02/2021	2.5		170	1.3	16.0	5.6	5.6	80.0	3.8	1.5	1.2	11.0	0.8	12.0	0.7	11.0	15.0	11.0	13.0
12/05/2021	3.3		173	1.5	18.0	6.2	5.7	31.0	2.7	1.9	1.4	13.0	1.1	8.3	0.9	12.0	15.0	12.0	13.0
11/08/2021	3.8		193	1.6	17.0	6.3	5.5	48.0	3.7	2.0	1.4	13.0	1.1	9.1	0.8	12.0	14.0	12.0	13.0
9/11/2021	3.7		201	1.5	17.0	6.3	6.0	32.0	4.0	1.8	1.3	13.0	1.8	11.0	0.9	12.0	15.0	12.0	13.0
9/02/22	3.7		183	1.6	15	6.1	5	73		1.5	1.3	13	1.0	7.9	0.9	12	15	11	14
11/05/22			62	1.3	15	5.6	6	46		1.7	1.4	14	1.2	7.4	0.8	12	15	12	16
10/08/22	4.2		194	1.7	17	6.3	6	36		1.9	1.4	14	0.9	4.8	0.9	12	15	12	15
9/11/22	4.5		173	1.4	17	6.2	7	56	4.8	1.9	1.3	14	1.1	6.6	0.9	12	15	11	15

Mg	SW1	SW2	SW4
31/01/2011	1.60	2.10	
10/05/2011	1.90	2.20	0.37
9/08/2011	4.00	3.10	0.44
8/11/2011	5.30	4.30	0.81
6/02/2012	4.80	5.40	0.67
8/05/2012	2.00	2.20	0.38
6/08/2012	2.60	4.20	0.24
13/11/2012	4.90	5.20	0.40
13/02/2013	3.20	4.40	0.65
14/05/2013	1.50	1.70	0.36
6/08/2013	1.80	2.60	0.40
12/11/2013		4.90	0.91
11/02/2014		5.20	
13/05/2014	4.30	4.90	1.97
12/08/2014		4.00	
10/11/2014		4.60	
9/02/2015	4.40	4.80	0.94
11/05/2015	1.40	1.50	0.84
11/08/2015	1.80	2.10	0.96
10/11/2015	2.30	2.40	0.76
8/02/2016	3.25	3.01	2.18
9/05/2016	3.11	3.15	1.29
9/08/2016	1.60	2.71	0.48
7/11/2016		3.75	
7/02/2017		4.15	2.80
8/05/2017	2.39	2.16	0.66
8/08/2017	2.46	2.30	0.53
7/11/2017	3.14	4.15	0.74
14/02/2018		3.73	
9/05/2018	2.46	3.36	2.79
15/08/2018		2.10	
14/11/2018		4.59	4.29
10/02/2019		4.26	
15/05/2019	3.50	3.30	4.20
14/08/2019	2.80	2.80	3.70
12/11/2019		4.60	
25/02/2020	2.70	2.30	2.10
12/05/2020	2.50	2.70	5.20
11/08/2020	2.30	2.90	3.70
10/11/2020		4.70	5.80
10/02/2021	3.20	3.60	3.60
12/05/2021	3.10	3.10	3.80
11/08/2021	1.70	2.10	3.60
9/11/2021	3.10	4.30	4.20
9/02/2022	3.8	3.4	3.3
11/05/2022	1.4	1.8	3.3
10/08/2022	2.1	2.6	3.5
9/11/2022	2.9	3.6	4.2

Total Magnesium (mg/L)

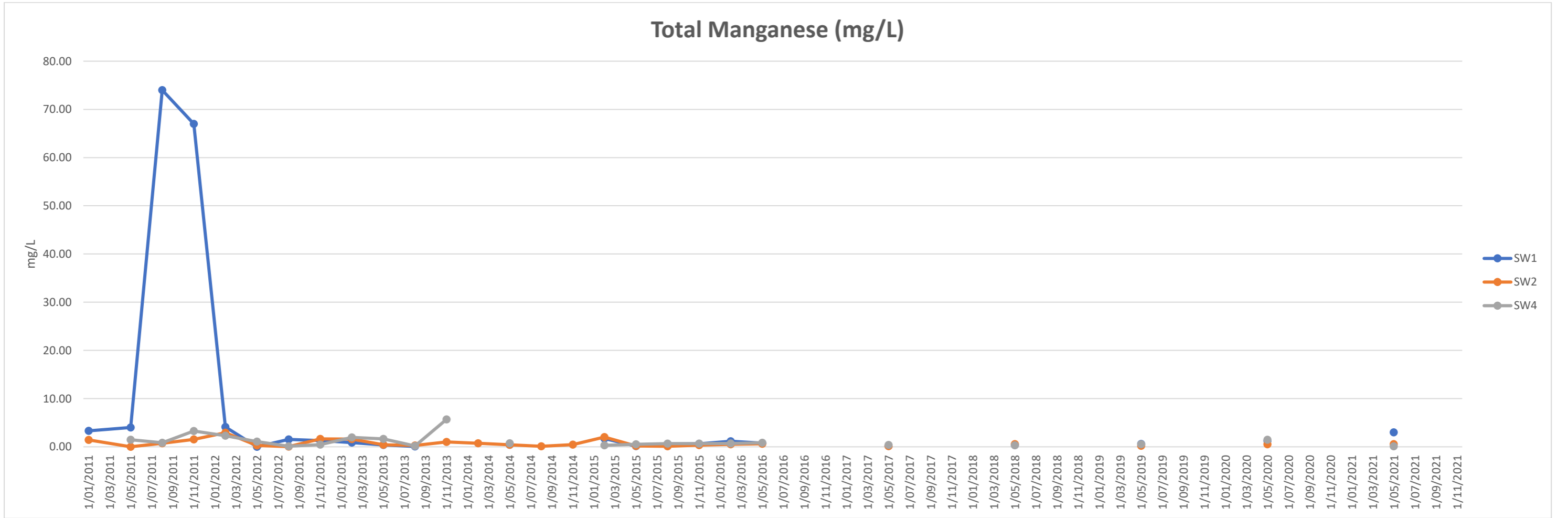
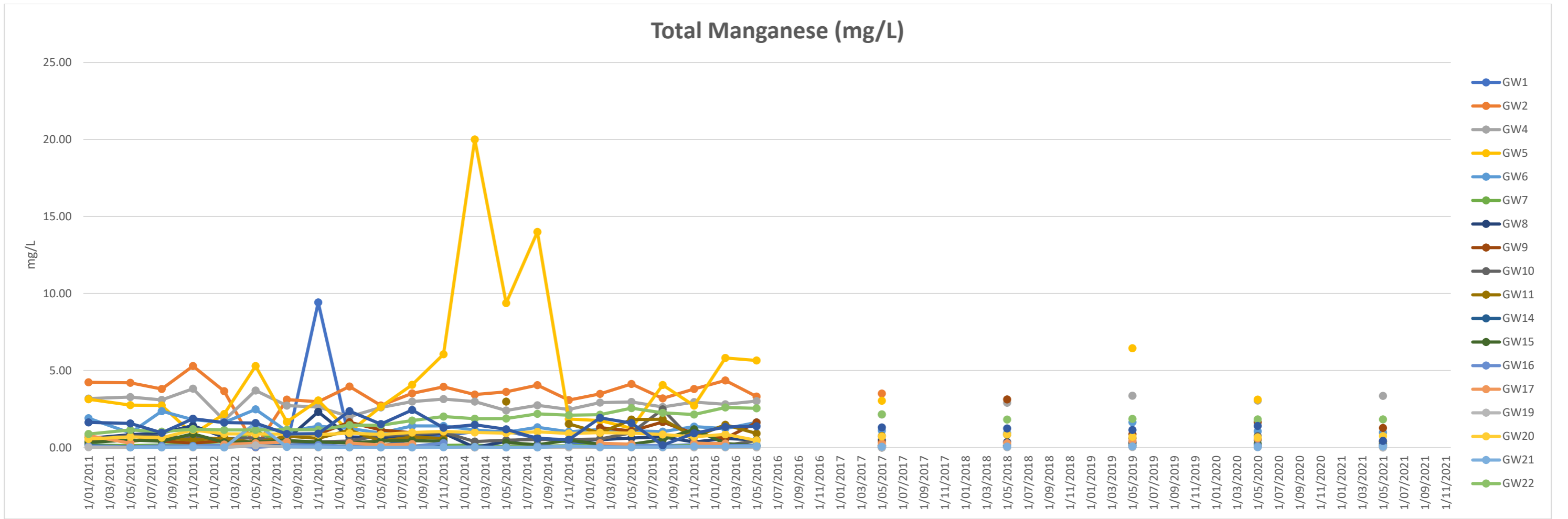


Total Magnesium (mg/L)



Mn	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	0.19	4.24	3.18	3.14	1.91	0.16	0.60	0.35	0.56	0.62	0.13	0.34	0.09	0.78	0.02	0.56		0.88	1.63
10/05/2011	0.08	4.21	3.28	2.76	0.95	0.13	0.84	0.79	0.78	0.40	0.04	0.49	0.04	0.29	0.01	0.70	0.01	1.15	1.57
9/08/2011	0.17	3.80	3.09	2.74	2.37	0.17	0.95	0.41	0.71	0.61	0.03	0.42	0.11		0.01	0.64	0.01	1.04	0.96
8/11/2011	0.15	5.29	3.82	0.86	1.81	0.22	1.43	0.30	0.63	0.49	0.10	0.90	0.11		0.01	1.14	0.04	1.20	1.88
6/02/2012	0.16	3.66	1.77	2.18	1.64	0.17	0.67	0.44	0.59	0.63	0.05	0.34	0.15	0.20	0.01	0.90	0.01	1.15	1.62
8/05/2012	0.12	0.01	3.71	5.30	2.48	1.09	0.09	0.35	0.63	0.31	0.08	0.38	0.02	0.28	0.14	0.88	1.59	1.14	1.59
6/08/2012	0.14	3.12	2.72	1.67	1.06	0.12	0.54	0.67	0.40	0.74	0.17	0.46	0.12	0.37	0.05	0.87	0.05	1.16	0.88
13/11/2012	9.42	2.97	2.64	3.06	1.38	0.09	2.32	0.88	0.37	0.60	0.21	0.36	0.17		0.01	0.84	0.05	1.16	0.91
13/02/2013	0.50	3.97	2.01	1.01	1.24	0.09	0.69	1.65	0.43	1.12	0.03	0.31	0.08	0.30	0.01	0.94	0.01	1.46	2.37
14/05/2013	0.09	2.74	2.60	2.65	0.94	0.08	0.65	1.14	0.80	0.43	0.09	0.43	0.06	0.17	0.01	0.85	0.01	1.45	1.53
6/08/2013	0.52	3.52	2.99	4.07	1.41	0.10	0.74	0.96	0.85	0.69	0.03	0.45	0.08	0.23	0.01	0.98	0.01	1.76	2.44
12/11/2013	0.77	3.94	3.15	6.06	1.41	0.14	0.94		0.99	0.59	0.08	0.41	0.30		0.02	1.05	0.02	2.02	1.29
11/02/2014	1.04	3.44	2.99	20.00	1.14	0.16	0.01		0.39						0.01	0.98	0.05	1.88	1.48
13/05/2014	1.06	3.62	2.41	9.38	0.99	0.06	0.40		0.48	2.99		0.33			0.01	0.94	0.01	1.89	1.19
12/08/2014	0.63	4.05	2.75	14.00	1.32	0.10	0.62		0.52			0.19	0.10		0.01	1.03	0.01	2.19	0.59
10/11/2014	0.36	3.08	2.47	1.85	1.03	0.12	0.45		0.52	1.54		0.48	0.06		0.01	0.92	0.10	2.10	0.51
9/02/2015	0.03	3.49	2.92	1.75	1.18	0.13	0.51	1.30	0.56	0.95	0.08	0.22	0.08	0.28	0.01	0.97	0.03	2.14	1.93
11/05/2015	0.07	4.13	2.96	1.25	1.09	0.14	0.62	1.08	0.96	1.82	0.11	0.22	0.14	0.22	0.01	0.94	0.04	2.56	1.59
11/08/2015	0.11	3.19	2.64	4.06	1.04	0.13	0.69	1.66	2.49	1.84	0.08	0.51	0.13		0.01	0.85	0.03	2.26	0.15
10/11/2015	0.19	3.80	2.96	2.73	1.37	0.13	0.36	0.91	0.35	0.69	0.07	1.19	0.07	0.27	0.01	0.69	0.08	2.14	0.93
8/02/2016	0.14	4.36	2.81	5.82	1.23	0.18	0.59	0.61	0.14	1.48	0.13	0.27	0.14	0.26	0.01	0.86	0.06	2.60	1.34
9/05/2016	0.09	3.32	3.02	5.66	1.64	0.14	0.51	1.64	0.46	0.92	0.10	0.12	0.14		0.01	0.47	0.09	2.55	1.38
9/08/2016																			
7/11/2016																			
7/02/2017																			
8/05/2017	0.05	3.51	2.14	3.04	1.10	0.10	0.49	0.35	NT	0.75	0.15	0.13	0.14	0.26	0.01	0.72	0.05	2.15	1.31
8/08/2017																			
7/11/2017																			
14/02/2018																			
9/05/2018	0.04		2.91		0.94	0.12	0.36	3.12		0.84	0.11	0.11	0.10	0.29	0.02	0.87	0.06	1.82	1.25
15/08/2018																			
14/11/2018																			
13/02/2019																			
15/05/2019	0.06		3.37	6.45	1.65	0.14	0.30	0.88	0.36	0.61		0.10	0.09	0.45	0.03	0.70	0.08	1.86	1.14
14/08/2019																			
13/11/2019																			
25/02/2020																			
12/05/2020	0.05		3.05	3.12	1.06	0.15	0.53	1.66	0.75	0.54	0.09	0.24	0.12	0.59	0.02	0.67	0.03	1.83	1.41
11/08/2020																			
10/11/2020																			
10/02/2021																			
12/05/2021	0.1		3.4	0.9	1.0	0.1	0.4	1.3	0.4	0.2	0.1	0.3	0.1	0.4	0.0	0.7	0.1	1.8	0.4
11/08/2021																			
9/11/2021																			

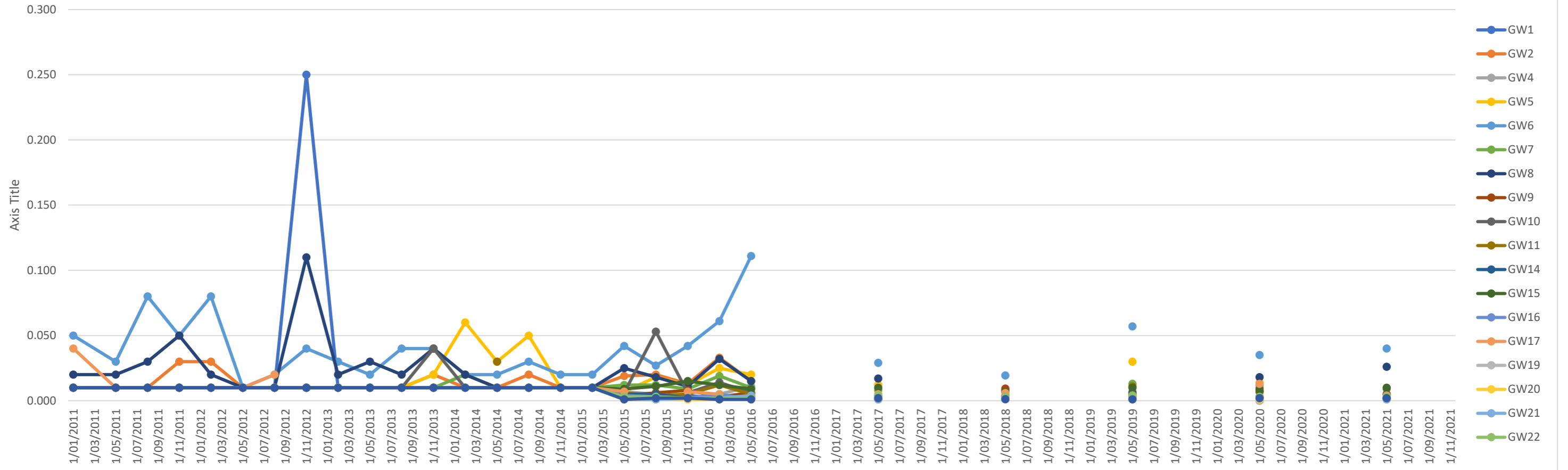
Mn	SW1	SW2	SW4
31/01/2011	3.30	1.42	
10/05/2011	4.01	0.01	1.45
9/08/2011	74.00	0.73	0.84
8/11/2011	67.00	1.53	3.29
6/02/2012	4.10	2.93	2.31
8/05/2012	0.01	0.27	1.08
6/08/2012	1.55	0.05	0.12
13/11/2012	1.29	1.64	0.45
13/02/2013	0.88	1.59	1.96
14/05/2013	0.37	0.41	1.64
6/08/2013	0.07	0.27	0.17
12/11/2013		1.00	5.70
11/02/2014		0.74	
13/05/2014	0.41	0.43	0.72
12/08/2014		0.12	
10/11/2014		0.44	
9/02/2015	1.71	2.02	0.32
11/05/2015	0.15	0.18	0.51
11/08/2015	0.60	0.11	0.66
10/11/2015	0.64	0.36	0.65
8/02/2016	1.16	0.54	0.71
9/05/2016	0.77	0.64	0.82
9/08/2016			
7/11/2016			
7/02/2017			
8/05/2017	0.19	0.15	0.37
8/08/2017			
7/11/2017			
14/02/2018			
9/05/2018	0.39	0.57	0.32
15/08/2018			
14/11/2018			
10/02/2019			
15/05/2019	0.59	0.20	0.54
14/08/2019			
12/11/2019			
25/02/2020			
12/05/2020	1.25	0.53	1.48
11/08/2020			
10/11/2020			
10/02/2021			
12/05/2021	3.00	0.57	0.09
11/08/2021			
9/11/2021			



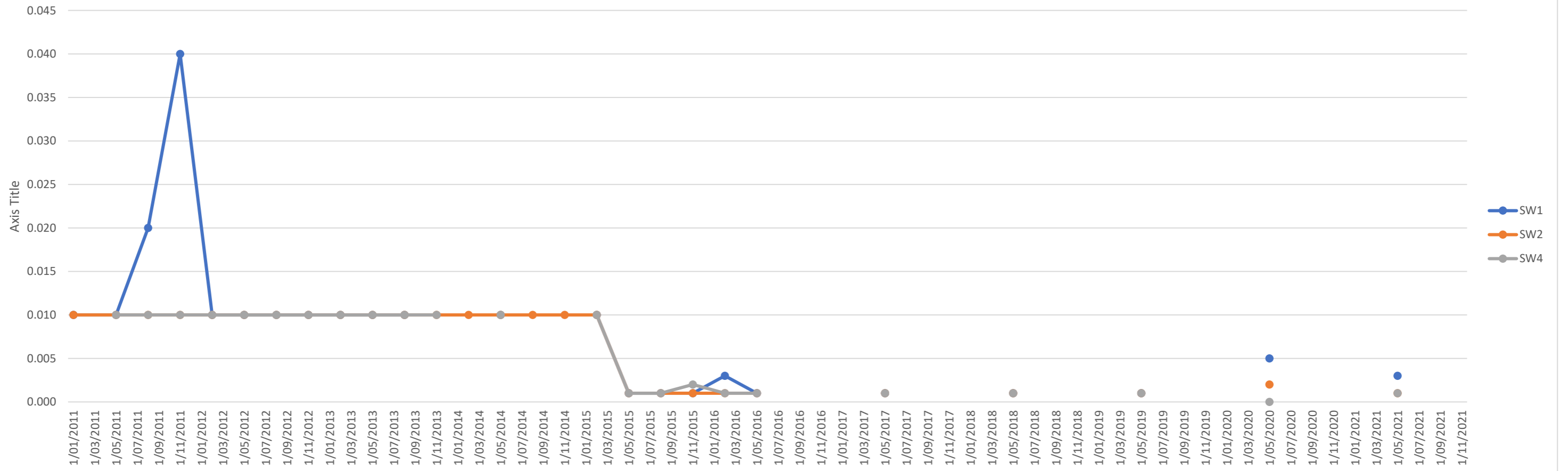
Ni	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	0.010	0.010	0.010	0.010	0.050	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.040	0.010	0.010		0.010	0.010
10/05/2011	0.010	0.010	0.010	0.010	0.030	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
9/08/2011	0.010	0.010	0.010	0.010	0.080	0.010	0.030	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010
8/11/2011	0.010	0.030	0.010	0.010	0.050	0.010	0.050	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010
6/02/2012	0.010	0.030	0.010	0.010	0.080	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
8/05/2012	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
6/08/2012	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010
13/11/2012	0.250	0.010	0.010	0.010	0.040	0.010	0.110	0.010	0.010	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010
13/02/2013	0.010	0.010	0.010	0.010	0.030	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
14/05/2013	0.010	0.010	0.010	0.010	0.020	0.010	0.030	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
6/08/2013	0.010	0.010	0.010	0.010	0.040	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
12/11/2013	0.010	0.020	0.010	0.020	0.040	0.010	0.040		0.040	0.010	0.010	0.010	0.010		0.010	0.010	0.010	0.010	0.010
11/02/2014	0.010	0.010	0.010	0.060	0.020	0.020	0.020		0.010						0.010	0.010	0.010	0.010	0.010
13/05/2014	0.010	0.010	0.010	0.030	0.020	0.010	0.010		0.010	0.030		0.010			0.010	0.010	0.010	0.010	0.010
12/08/2014	0.010	0.020	0.010	0.050	0.030	0.010	0.010		0.010			0.010	0.010		0.010	0.010	0.010	0.010	0.010
10/11/2014	0.010	0.010	0.010	0.010	0.020	0.010	0.010		0.010	0.010		0.010	0.010		0.010	0.010	0.010	0.010	0.010
9/02/2015	0.010	0.010	0.010	0.010	0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
11/05/2015	0.001	0.019	0.007	0.007	0.042	0.012	0.025	0.004	0.006	0.006	0.005	0.009	0.004	0.007	0.001	0.001	0.002	0.003	0.001
11/08/2015	0.001	0.020	0.005	0.018	0.027	0.012	0.018	0.006	0.053	0.004	0.005	0.011	0.003		0.001	0.002	0.001	0.003	0.002
10/11/2015	0.004	0.013	0.001	0.012	0.042	0.009	0.011	0.008	0.006	0.005	0.002	0.015	0.002	0.007	0.001	0.001	0.002	0.002	0.002
8/02/2016	0.002	0.033	0.005	0.025	0.061	0.019	0.032	0.003	0.014	0.012	0.004	0.012	0.005	0.005	0.001	0.001	0.002	0.002	0.001
9/05/2016	0.002	0.015	0.011	0.020	0.111	0.010	0.015	0.006	0.006	0.005	0.003	0.009	0.001		0.003	0.001	0.004	0.002	0.001
9/08/2016																			
7/11/2016																			
7/02/2017																			
8/05/2017	0.001	0.012	0.009	0.012	0.029	0.008	0.017	0.001		0.004	0.003	0.010	0.002	0.005	0.001	0.001	0.001	0.004	0.002
8/08/2017																			
7/11/2017																			
14/02/2018																			
9/05/2018	0.001		0.001		0.019	0.007	0.008	0.009		0.004	0.003	0.007	0.001	0.006	0.001	0.001	0.001	0.003	0.001
15/08/2018																			
14/11/2018																			
13/02/2019																			
15/05/2019	0.001		0.007	0.030	0.057	0.013	0.006	0.004	0.005	0.011		0.010	0.003	0.004	0.001	0.001	0.002	0.004	0.001
14/08/2019																			
13/11/2019																			
25/02/2020																			
12/05/2020	<0.001		0.007	0.014	0.035	0.012	0.018	0.007	0.009	0.007	0.003	0.008	0.002	0.013	<0.001	0.001	0.002	0.003	0.002
11/08/2020																			
10/11/2020																			
10/02/2021																			
12/05/2021	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11/08/2021																			
9/11/2021																			

Ni	SW1	SW2	SW4
31/01/2011	0.010	0.010	
10/05/2011	0.010	0.010	0.010
9/08/2011	0.020	0.010	0.010
8/11/2011	0.040	0.010	0.010
6/02/2012	0.010	0.010	0.010
8/05/2012	0.010	0.010	0.010
6/08/2012	0.010	0.010	0.010
13/11/2012	0.010	0.010	0.010
13/02/2013	0.010	0.010	0.010
14/05/2013	0.010	0.010	0.010
6/08/2013	0.010	0.010	0.010
12/11/2013		0.010	0.010
11/02/2014		0.010	
13/05/2014	0.010	0.010	0.010
12/08/2014		0.010	
10/11/2014		0.010	
9/02/2015	0.010	0.010	0.010
11/05/2015	0.001	0.001	0.001
11/08/2015	0.001	0.001	0.001
10/11/2015	0.001	0.001	0.002
8/02/2016	0.003	0.001	0.001
9/05/2016	0.001	0.001	0.001
9/08/2016			
7/11/2016			
7/02/2017			
8/05/2017	0.001	0.001	0.001
8/08/2017			
7/11/2017			
14/02/2018			
9/05/2018	0.001	0.001	0.001
15/08/2018			
14/11/2018			
10/02/2019			
15/05/2019	0.001	0.001	0.001
14/08/2019			
12/11/2019			
25/02/2020			
12/05/2020	0.005	0.002	<0.001
11/08/2020			
10/11/2020			
10/02/2021			
12/05/2021	0.00	0.00	0.00
11/08/2021			
9/11/2021			

Total Nickel (mg/L)



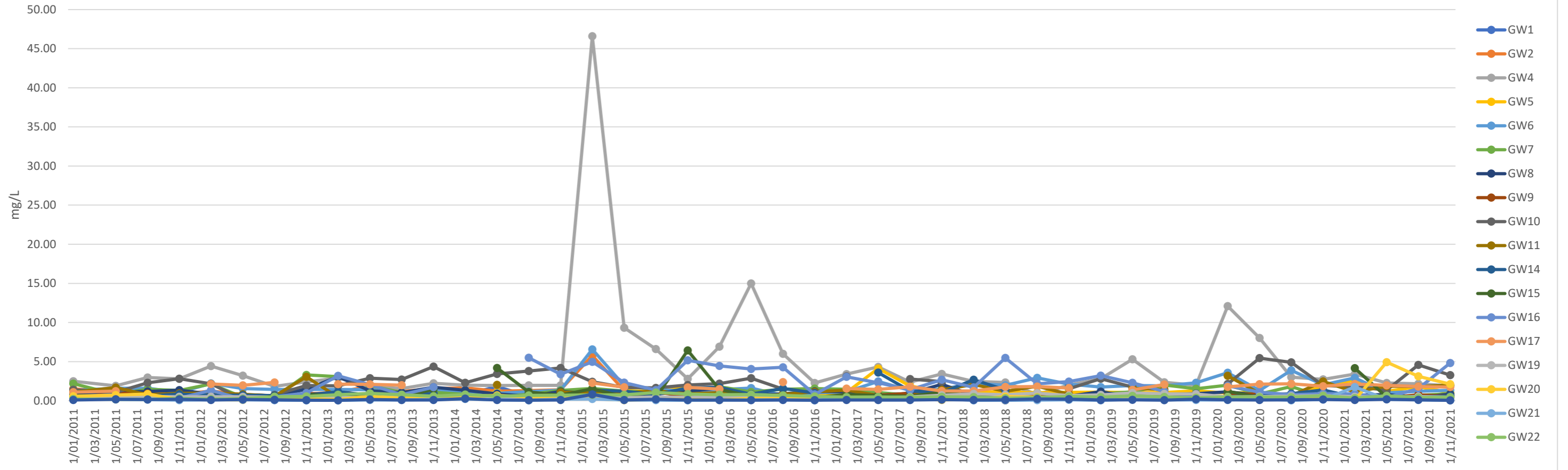
Total Nickel (mg/L)



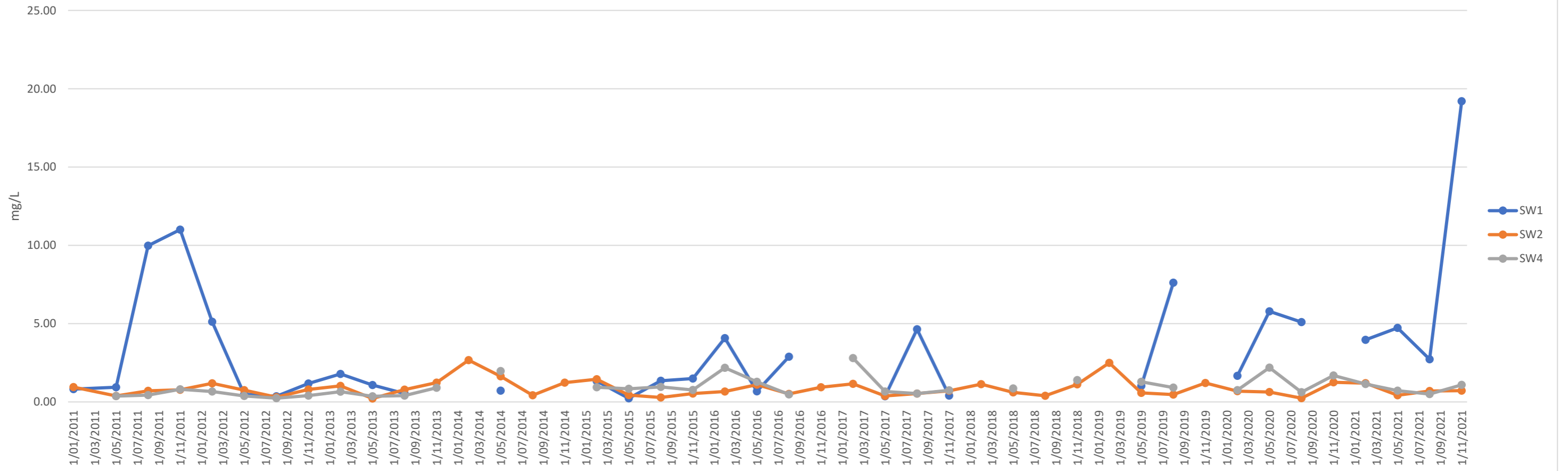
Total Nitrogen	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	0.33	1.51	2.49	0.25	1.32	2.19	0.72	0.36	1.40	1.09	0.54	0.65	0.53	1.09	0.37	0.57		0.22	0.08
10/05/2011	0.22	1.14	1.90	0.68	1.59	0.81	1.14	0.96	1.07	1.67	0.76	0.58	0.75	1.22	0.53	0.72	0.15	0.17	0.17
9/08/2011	0.17	0.95	2.97	0.46	1.59	1.46	1.17	0.92	2.28	0.77	0.62	0.38	0.43		0.54	0.86	0.13	0.18	0.16
8/11/2011	0.19	0.78	2.80	0.39	1.08	1.31	1.35	0.19	2.81	0.94	0.84	0.23	0.31		0.51	0.16	0.06	0.29	0.18
6/02/2012	0.18	1.24	4.42	0.36	2.21	2.13	0.86	0.33	2.16	0.99	0.72	0.48	1.34	2.14	0.50	0.14	0.11	0.19	0.09
8/05/2012	0.28	0.77	3.20	0.37	1.55	0.44	0.76	0.56	0.17	0.83	0.71	0.26	0.16	1.97	0.51	0.08	0.11	0.27	0.16
6/08/2012	0.10	0.64	1.84	0.43	1.43	0.42	0.63	0.39	0.75	0.60	0.65	0.54	0.50	2.34	0.47	0.23	0.07	0.50	0.12
13/11/2012	0.53	0.85	2.40	0.72	1.44	3.30	1.47	0.92	1.94	3.06	0.75	0.82	0.98		0.48	0.28	0.05	0.55	0.07
13/02/2013	0.63	1.10	2.89	0.32	1.44	3.07	3.08	0.80	1.90	0.44	1.13	0.58	3.18	2.11	0.39	0.15	0.05	0.76	0.05
14/05/2013	0.38	1.85	1.81	0.51	1.39	1.92	1.27	0.59	2.88	0.37	0.73	0.46	2.04	2.10	0.42	0.56	0.09	0.93	0.16
6/08/2013	0.56	1.19	1.54	0.61	1.05	1.04	1.02	0.49	2.71	0.49	0.74	0.42	0.77	1.99	0.49	0.32	0.08	0.76	0.10
12/11/2013	0.60	1.55	2.22	0.74	1.31	1.07	1.72		4.37	0.61	0.95	1.48	1.72		0.51	0.38	0.15	0.58	0.09
11/02/2014	0.74	1.63	1.99	0.94	1.04	0.81	1.34		2.29						0.69	0.52	0.21	0.79	0.27
13/05/2014	1.82	1.22	1.95	1.05	0.93	0.51	0.88		3.43	2.02		4.18			0.58	0.68	0.12	0.57	0.10
12/08/2014	0.55	1.29	1.97	0.87	1.15	0.81	0.56		3.80			1.12	5.49		0.42	0.49	0.05	0.67	0.06
10/11/2014	0.82	1.40	1.97	0.84	1.36	1.31	1.18		4.19	1.10		0.70	3.38		0.42	0.35	0.19	0.70	0.09
9/02/2015	0.47	5.77	46.60	1.06	6.57	1.58	0.92	1.00	2.43	1.01	1.35	1.52	4.98	2.26	0.37	0.26	0.23	0.75	0.80
11/05/2015	0.36	1.30	9.32	1.27	1.93	1.23	0.79	0.74	1.71	0.96	1.20	0.48	2.31	1.72	0.40	0.07	0.08	0.74	0.08
11/08/2015	0.15	1.07	6.61	1.21	1.42	1.07	0.85	1.09	1.64	1.28	0.79	0.37	1.35		0.45	0.13	0.07	1.05	0.18
10/11/2015	0.78	1.24	2.80	1.75	1.25	1.17	1.18	0.60	2.00	0.87	1.63	6.43	5.17	1.70	0.44	0.15	0.05	0.85	0.09
8/02/2016	0.49	1.20	6.90	1.29	1.41	1.79	1.63	0.64	2.18	1.03	1.71	1.45	4.44	1.48	0.54	0.09	0.07	0.77	0.09
9/05/2016	0.34	1.03	14.99	1.13	1.62	1.12	0.72	0.83	2.88	0.36	0.82	0.58	4.05		0.52	0.31	0.08	0.79	0.06
9/08/2016	0.15	0.79	5.99	0.70	0.67	1.46	0.88	0.47	1.49	0.82	1.57	0.44	4.27	2.38	0.57	0.26	0.11	0.68	0.09
7/11/2016	0.11	0.99	2.26	0.74	1.00	1.56	1.20	0.48		1.14	0.99	0.39	0.80		0.45	0.27	0.05	0.55	0.07
7/02/2017	0.35	1.01	3.40	1.04	1.14	1.47	1.13	0.37	3.12	1.36		0.78	3.06	1.54	0.44	0.17	0.34	0.46	0.08
8/05/2017	0.53	0.92	4.32	4.12	2.47	1.05	0.70	0.68		0.65	3.59	0.66	2.29	1.44	0.38	0.12	0.08	0.49	0.09
8/08/2017	0.22	0.65	2.38	1.87	1.31	0.71	0.94	0.96	2.78	0.60	1.24	0.56	1.39	1.78	0.49	0.25	0.10	0.42	0.08
7/11/2017	1.31		3.43	1.13	1.46	1.45	2.09	0.57	2.44	1.40	1.01	1.07	2.68	1.25	0.70	0.09	0.27	0.51	0.13
14/02/2018	0.45		2.46	1.13	2.22	0.38	0.67	0.42		2.07	2.68	0.64	1.71	1.24	0.88	0.17	0.05	0.46	0.10
9/05/2018	0.77		2.34	1.12	1.96	0.61	0.28	0.05		1.20	1.38	0.39	5.47	1.76	0.76	0.53	0.05	0.33	0.11
15/08/2018	0.49		0.79	1.02	2.92	0.99	0.49	0.62		1.86		0.43	2.15	1.81	0.96	0.47	0.07	0.39	0.21
14/11/2018	0.25		2.00	1.07	2.11	0.48	0.56	0.50	1.53	0.83	1.75	0.53	2.44	1.61	0.66	0.31	0.11	0.54	0.19
13/02/2019	1.16		2.82	1.10	1.74	0.88	1.15		2.82				3.20		0.74	0.28	0.05	0.46	0.09
15/05/2019	0.84		5.29	1.05	1.94	1.13	0.42	0.50	1.74	1.57		0.62	2.28	1.37	0.99	0.22	0.17	0.62	0.12
14/08/2019	0.32		2.36	1.05	1.90	2.01	0.80	0.31		1.43		0.62	1.18	2.07	0.87	0.25	0.12	0.48	0.06
13/11/2019	0.84		1.96	1.27	2.30	1.52	0.90								0.86	0.37	0.10	0.38	0.19
25/02/2020	0.47		12.10	0.96	3.57	1.98	1.13	0.73	2.13	3.18	0.51	1.20	1.89	1.76	0.49	0.30	0.10	0.48	0.11
12/05/2020	0.44		8.02	1.06	1.31	0.86	0.70	0.89	5.44	0.94	0.64	0.44	1.10	2.11	0.52	0.26	0.21	0.45	0.09
11/08/2020	0.12		3.00	0.70	3.88	1.82	0.83	0.81	4.90	0.63	0.90	0.41	0.76	2.15	0.58	0.16	0.05	0.45	0.12
10/11/2020	0.17		2.72	1.83	2.03	0.49	0.75	0.44	1.94	2.46	1.37		0.89	1.86	0.66	0.24	0.15	0.63	0.15
10/02/2021	0.5		3.4	2.6	2.9	0.7	0.7	0.6	1.8	1.1	0.4	4.2	0.9	2.1	0.5	0.1	1.8	0.3	0.1
12/05/2021	0.7		2.3	1.2	1.0	0.5	0.8	0.4	1.4	1.9	0.6	0.5	0.4	2.0	0.5	4.9	0.2	0.6	0.2
11/08/2021	0.4		2.2	1.8	1.2	0.7	0.4	0.8	4.6	1.8	0.5	0.4	1.5	1.8	0.5	3.1	0.1	0.4	0.1
9/11/2021	0.6		1.9	1.0	1.3	0.9	0.8	0.6	3.3	2.0	0.6	0.4	4.8	1.7	0.5	2.1	0.1	0.5	0.1

Total Nitrogen	SW1	SW2	SW4
31/01/2011	0.82	0.95	
10/05/2011	0.94	0.38	0.37
9/08/2011	9.98	0.71	0.44
8/11/2011	11.00	0.77	0.81
6/02/2012	5.12	1.19	0.67
8/05/2012	0.49	0.75	0.38
6/08/2012	0.36	0.31	0.24
13/11/2012	1.18	0.80	0.40
13/02/2013	1.79	1.02	0.65
14/05/2013	1.08	0.22	0.36
6/08/2013	0.54	0.78	0.40
12/11/2013		1.23	0.91
11/02/2014		2.67	
13/05/2014	0.72	1.64	1.97
12/08/2014		0.43	
10/11/2014		1.23	
9/02/2015	1.33	1.45	0.94
11/05/2015	0.23	0.44	0.84
11/08/2015	1.35	0.28	0.96
10/11/2015	1.49	0.53	0.76
8/02/2016	4.07	0.66	2.18
9/05/2016	0.68	1.10	1.29
9/08/2016	2.89	0.51	0.48
7/11/2016		0.94	
7/02/2017		1.16	2.80
8/05/2017	0.36	0.38	0.66
8/08/2017	4.64	0.54	0.53
7/11/2017	0.40	0.71	0.74
14/02/2018		1.13	
9/05/2018	0.62	0.61	0.86
15/08/2018		0.39	
14/11/2018		1.12	1.40
10/02/2019		2.50	
15/05/2019	1.02	0.58	1.29
14/08/2019	7.61	0.47	0.92
12/11/2019		1.21	
25/02/2020	1.67	0.69	0.75
12/05/2020	5.78	0.63	2.19
11/08/2020	5.10	0.24	0.62
10/11/2020		1.25	1.69
10/02/2021	3.97	1.20	1.15
12/05/2021	4.73	0.43	0.72
11/08/2021	2.72	0.70	0.50
9/11/2021	19.20	0.72	1.09

Total Nitrogen (mg/L)

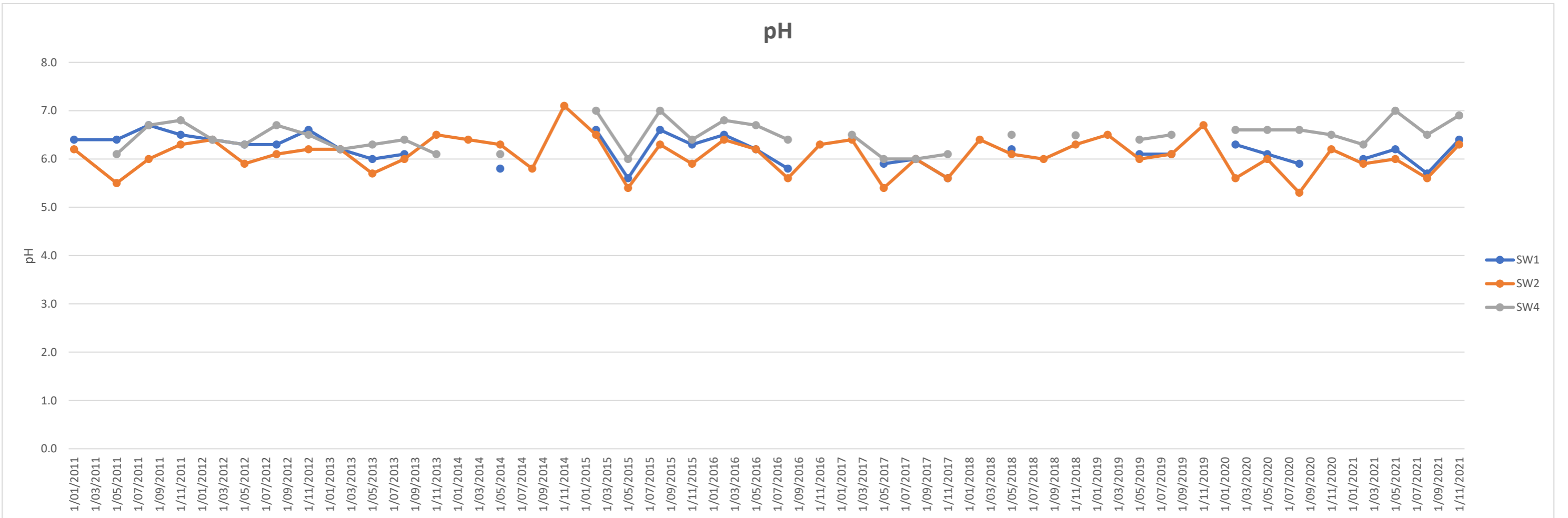
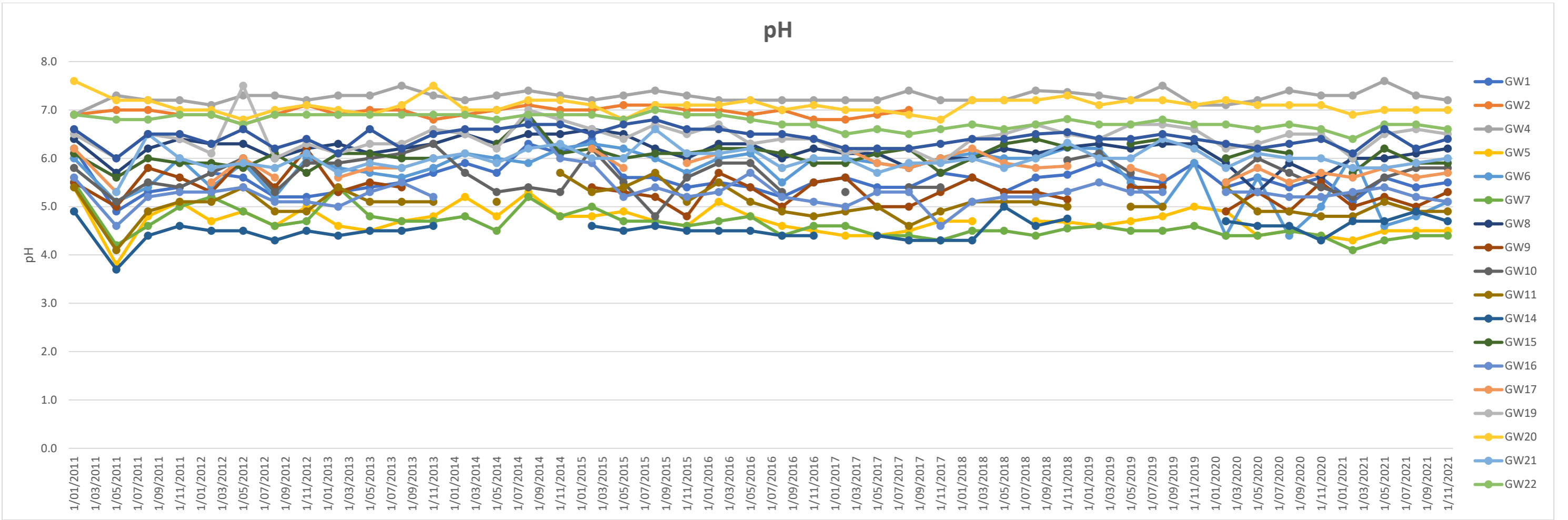


Total Nitrogen (mg/L)



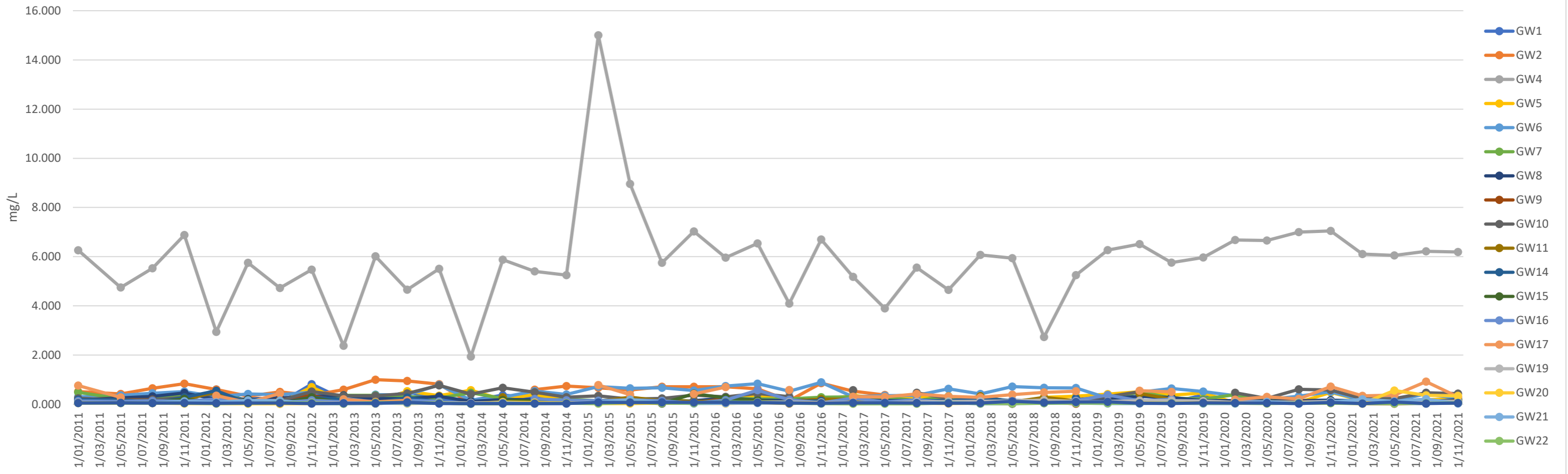
pH	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	6.2	6.9	6.9	5.4	6.0	5.5	6.4	5.5	5.8	5.4	4.9	6.1	5.6	6.2	6.5	7.6		6.9	6.6
10/05/2011	4.9	7.0	7.3	3.8	5.1	4.2	5.7	5.0	5.1	4.1	3.7	5.6	4.6	5.3	6.0	7.2	5.3	6.8	6.0
9/08/2011	5.3	7.0	7.2	4.8	5.4	4.6	6.2	5.8	5.5	4.9	4.4	6.0	5.2		6.5	7.2	6.5	6.8	6.5
8/11/2011	5.4	6.9	7.2	5.1	6.0	5.0	6.4	5.6	5.4	5.1	4.6	5.9	5.3		6.4	7.0	6.0	6.9	6.5
6/02/2012	5.7	6.9	7.1	4.7	5.4	5.2	6.3	5.3	5.7	5.1	4.5	5.9	5.3	5.5	6.1	7.0	5.8	6.9	6.3
8/05/2012	5.6	6.7	7.3	4.9	5.9	4.9	6.3	6.0	6.0	5.4	4.5	5.8	5.4	6.0	7.5	6.8	5.9	6.7	6.6
6/08/2012	5.2	6.9	7.3	4.6	5.2	4.6	6.0	5.4	5.3	4.9	4.3	6.1	5.1	5.6	6.0	7.0	5.8	6.9	6.2
13/11/2012	5.2	7.1	7.2	5.0	6.0	4.7	6.2	6.2	5.9	4.9	4.5	5.7	5.1		6.3	7.1	6.1	6.9	6.4
13/02/2013	5.3	6.9	7.3	4.6	5.8	5.4	6.3	5.3	5.9	5.4	4.4	6.1	5.0	5.6	6.1	7.0	5.7	6.9	6.1
14/05/2013	5.4	7.0	7.3	4.5	5.7	4.8	6.1	5.5	6.0	5.1	4.5	6.1	5.3	5.8	6.3	6.9	5.9	6.9	6.6
6/08/2013	5.5	7.0	7.5	4.7	5.6	4.7	6.2	5.4	6.1	5.1	4.5	6.0	5.5	5.8	6.3	7.1	5.8	6.9	6.2
12/11/2013	5.7	6.8	7.3	4.8	5.8	4.7	6.3		6.3	5.1	4.6	6.0	5.2		6.6	7.5	6.0	6.9	6.5
11/02/2014	5.9	6.9	7.2	5.2	6.1	4.8	6.5		5.7						6.5	7.0	6.1	6.9	6.6
13/05/2014	5.7	7.0	7.3	4.8	6.0	4.5	6.3		5.3	5.1		6.3			6.2	7.0	5.9	6.8	6.6
12/08/2014	6.3	7.1	7.4	5.3	5.9	5.2	6.5		5.4			6.9	6.8		7.0	7.2	6.2	6.9	6.7
10/11/2014	6.1	7.0	7.3	4.8	6.2	4.8	6.5		5.3	5.7		6.1	6.0		6.8	7.2	6.3	6.9	6.7
9/02/2015	6.4	7.0	7.2	4.8	6.3	5.0	6.6	5.4	6.2	5.3	4.6	6.2	5.9	6.2	6.6	7.1	6.0	6.9	6.5
11/05/2015	5.6	7.1	7.3	4.9	6.2	4.7	6.5	5.3	5.5	5.4	4.5	6.0	5.2	5.8	6.4	6.8	6.0	6.8	6.7
11/08/2015	5.6	7.1	7.4	4.7	6.0	4.7	6.2	5.2	4.8	5.7	4.6	6.1	5.4		6.7	7.1	6.6	7.0	6.8
10/11/2015	5.4	7.0	7.3	4.6	5.7	4.6	6.0	4.8	5.6	5.1	4.5	6.1	5.2	5.9	6.5	7.1	6.1	6.9	6.6
8/02/2016	5.5	7.0	7.2	5.1	6.0	4.7	6.3	5.7	5.9	5.5	4.5	6.2	5.3	6.1	6.7	7.1	6.1	6.9	6.6
9/05/2016	5.4	6.9	7.2	4.8	6.1	4.8	6.3	5.4	5.9	5.1	4.5	6.2	5.7		6.3	7.2	6.2	6.8	6.5
9/08/2016	5.2	7.0	7.2	4.6	5.5	4.4	6.0	5.0	5.3	4.9	4.4	6.1	5.2	5.8	6.4	7.0	5.8	6.7	6.5
7/11/2016	5.5	6.8	7.2	4.5	6.0	4.6	6.2	5.5		4.8	4.4	5.9	5.1		6.4	7.1	6.0	6.7	6.4
7/02/2017	5.6	6.8	7.2	4.4	6.0	4.6	6.1	5.6	5.3	4.9		5.9	5.0	6.2	6.1	7.0	6.0	6.5	6.2
8/05/2017	5.4	6.9	7.2	4.4	5.9	4.4	6.1	5.0		5.0	4.4	6.1	5.3	5.9	6.2	7.0	5.7	6.6	6.2
8/08/2017	5.4	7.0	7.4	4.5	5.8	4.4	5.8	5.0	5.4	4.6	4.3	6.2	5.3	5.8	6.2	6.9	5.9	6.5	6.2
7/11/2017	5.7		7.2	4.7	6.0	4.3	6.0	5.3	5.4	4.9	4.3	5.7	4.6	6.0	5.9	6.8	5.9	6.6	6.3
14/02/2018	5.6		7.2	4.7	6.1	4.5	6.0	5.6		5.1	4.3	6.0	5.1	6.2	6.4	7.2	6.0	6.7	6.4
9/05/2018	5.3		7.2		6.0	4.5	6.2	5.3		5.1	5.0	6.3	5.2	5.9	6.5	7.2	5.8	6.6	6.4
15/08/2018	5.6		7.4	4.7	6.0	4.4	6.1	5.3		5.1	4.6	6.4	5.2	5.8	6.7	7.2	6.0	6.7	6.5
14/11/2018	5.7		7.4	4.7	6.2	4.6	6.2	5.2	6.0	5.0	4.8	6.2	5.3	5.8	6.5	7.3	6.3	6.8	6.5
13/02/2019	5.9		7.3	4.6	6.2	4.6	6.3		6.1				5.5		6.4	7.1	6.0	6.7	6.4
15/05/2019	5.6		7.2	4.7	5.5	4.5	6.2	5.4	5.7	5.0		6.3	5.3	5.8	6.7	7.2	6.0	6.7	6.4
14/08/2019	5.5		7.5	4.8	5.0	4.5	6.3	5.4		5.0		6.4	5.3	5.6	6.7	7.2	6.4	6.8	6.5
13/11/2019	5.9		7.1	5.0	5.9	4.6	6.3								6.6	7.1	6.2	6.7	6.4
25/02/2020	5.4		7.1	4.9	4.4	4.4	5.9	4.9	5.5	5.4	4.7	6.0	5.3	5.5	6.2	7.2	5.8	6.7	6.3
12/05/2020	5.6		7.2	4.4	5.6	4.4	5.3	5.3	6.0	4.9	4.6	6.2	5.3	5.8	6.3	7.1	6.1	6.6	6.2
11/08/2020	5.4		7.4	4.5	4.4	4.5	5.9	4.9	5.7	4.9	4.6	6.1	5.2	5.5	6.5	7.1	6.0	6.7	6.3
10/11/2020	5.6		7.3	4.4	5.0	4.4	5.6	5.5	5.4	4.8	4.3		5.2	5.7	6.5	7.1	6.0	6.6	6.4
10/02/2021	5.1		7.3	4.3	6.1	4.1	6.0	5.0	5.2	4.8	4.7	5.7	5.3	5.6	6.0	6.9	5.8	6.4	6.1
12/05/2021	5.6		7.6	4.5	4.6	4.3	6.0	5.2	5.6	5.1	4.7	6.2	5.4	5.8	6.5	7.0	5.8	6.7	6.6
11/08/2021	5.4		7.3	4.5	4.8	4.4	6.1	5.0	5.8	4.9	4.9	5.9	5.2	5.6	6.6	7.0	5.9	6.7	6.2
9/11/2021	5.5		7.2	4.5	5.1	4.4	6.2	5.3	5.8	4.9	4.7	5.9	5.1	5.7	6.5	7.0	6.0	6.6	6.4

pH	SW1	SW2	SW4
31/01/2011	6.4	6.2	
10/05/2011	6.4	5.5	6.1
9/08/2011	6.7	6.0	6.7
8/11/2011	6.5	6.3	6.8
6/02/2012	6.4	6.4	6.4
8/05/2012	6.3	5.9	6.3
6/08/2012	6.3	6.1	6.7
13/11/2012	6.6	6.2	6.5
13/02/2013	6.2	6.2	6.2
14/05/2013	6.0	5.7	6.3
6/08/2013	6.1	6.0	6.4
12/11/2013		6.5	6.1
11/02/2014		6.4	
13/05/2014	5.8	6.3	6.1
12/08/2014		5.8	
10/11/2014		7.1	
9/02/2015	6.6	6.5	7.0
11/05/2015	5.6	5.4	6.0
11/08/2015	6.6	6.3	7.0
10/11/2015	6.3	5.9	6.4
8/02/2016	6.5	6.4	6.8
9/05/2016	6.2	6.2	6.7
9/08/2016	5.8	5.6	6.4
7/11/2016		6.3	
7/02/2017		6.4	6.5
8/05/2017	5.9	5.4	6.0
8/08/2017	6.0	6.0	6.0
7/11/2017	5.6	5.6	6.1
14/02/2018		6.4	
9/05/2018	6.2	6.1	6.5
15/08/2018		6.0	
14/11/2018		6.3	6.5
10/02/2019		6.5	
15/05/2019	6.1	6.0	6.4
14/08/2019	6.1	6.1	6.5
12/11/2019		6.7	
25/02/2020	6.3	5.6	6.6
12/05/2020	6.1	6.0	6.6
11/08/2020	5.9	5.3	6.6
10/11/2020		6.2	6.5
10/02/2021	6.00	5.90	6.30
12/05/2021	6.20	6.00	7.00
11/08/2021	5.70	5.60	6.50
9/11/2021	6.40	6.30	6.90

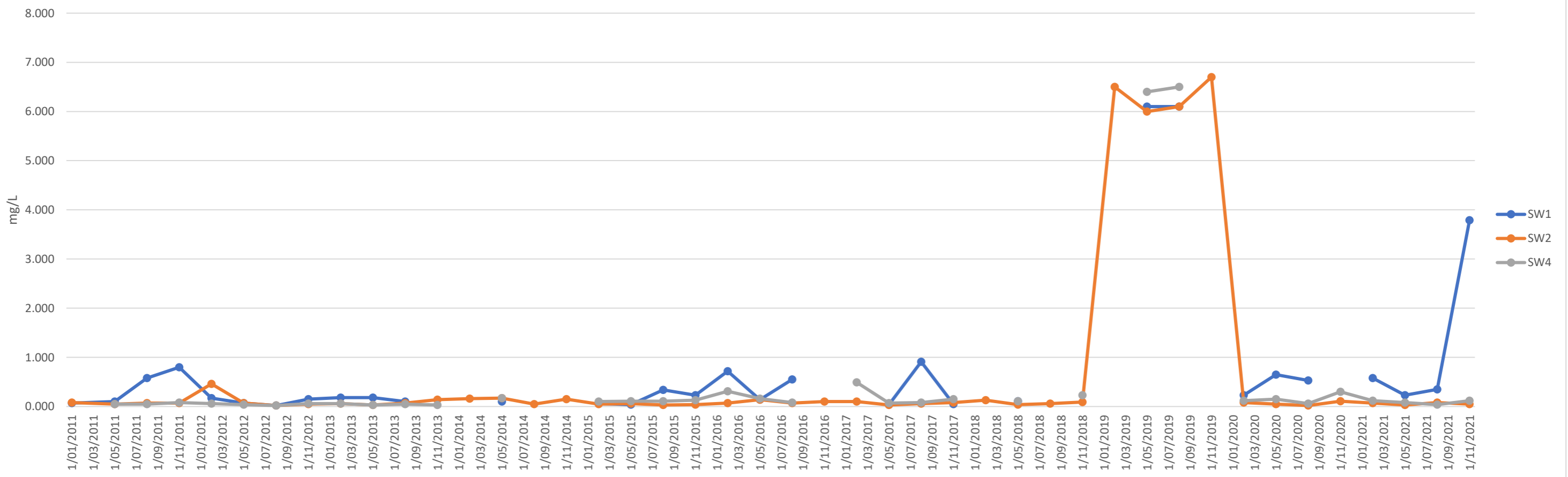


Phosphorus	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23	Phosphorus	SW1	SW2	SW4
31/01/2011	0.100	0.520	6.260	0.230	0.300	0.490	0.190	0.230	0.240	0.080	0.180	0.070	0.130	0.760	0.070	0.050		0.050	0.050	31/01/2011	0.070	0.080	
10/05/2011	0.050	0.420	4.750	0.260	0.360	0.220	0.260	0.190	0.170	0.110	0.200	0.140	0.120	0.280	0.060	0.050	0.050	0.050	0.060	10/05/2011	0.100	0.050	0.050
9/08/2011	0.060	0.650	5.530	0.160	0.450	0.290	0.320	0.190	0.180	0.050	0.050	0.080	0.140		0.060	0.050	0.060	0.050	0.050	9/08/2011	0.580	0.070	0.050
8/11/2011	0.100	0.840	6.880	0.200	0.520	0.330	0.460	0.120	0.280	0.190	0.280	0.220	0.120		0.060	0.030	0.120	0.040	0.050	8/11/2011	0.800	0.070	0.080
6/02/2012	0.600	0.600	2.940	0.100	0.310	0.420	0.200	0.110	0.430	0.510	0.550	0.050	0.220	0.350	0.050	0.030	0.080	0.030	0.040	6/02/2012	0.170	0.460	0.060
8/05/2012	0.110	0.330	5.750	0.120	0.420	0.160	0.210	0.070	0.130	0.040	0.050	0.180	0.080	0.070	0.070	0.020	0.160	0.040	0.050	8/05/2012	0.070	0.070	0.040
6/08/2012	0.050	0.500	4.730	0.060	0.390	0.150	0.260	0.180	0.150	0.080	0.050	0.020	0.060	0.440	0.060	0.020	0.150	0.060	0.050	6/08/2012	0.020	0.020	0.020
13/11/2012	0.820	0.360	5.470	0.700	0.490	0.190	0.320	0.360	0.520	0.120	0.290	0.280	0.160		0.070	0.030	0.030	0.060	0.030	13/11/2012	0.150	0.050	0.060
13/02/2013	0.200	0.590	2.380	0.100	0.100	0.360	0.360	0.100	0.340	0.060	0.190	0.040	0.100	0.200	0.060	0.020	0.020	0.030	0.040	13/02/2013	0.180	0.060	0.060
14/05/2013	0.200	1.000	6.020	0.080	0.390	0.360	0.230	0.040	0.340	0.040	0.060	0.030	0.040	0.100	0.060	0.050	0.040	0.070	0.040	14/05/2013	0.180	0.030	0.030
6/08/2013	0.500	0.950	4.660	0.530	0.380	0.310	0.230	0.160	0.440	0.110	0.270	0.070	0.160	0.160	0.060	0.030	0.040	0.070	0.080	6/08/2013	0.100	0.070	0.050
12/11/2013	0.190	0.820	5.510	0.350	0.790	0.250	0.320		0.770	0.080	0.090	0.080	0.120		0.070	0.050	0.050	0.050	0.030	12/11/2013		0.140	0.030
11/02/2014	0.160	0.040	1.940	0.570	0.170	0.470	0.120		0.410						0.060	0.020	0.020	0.020	0.030	11/02/2014		0.160	
13/05/2014	0.370	0.090	5.880	0.190	0.290	0.240	0.190		0.670	0.290		0.170			0.070	0.090	0.060	0.020	0.030	13/05/2014	0.100	0.170	0.170
12/08/2014	0.280	0.590	5.400	0.400	0.540	0.120	0.190		0.490			0.130	0.220		0.060	0.070	0.030	0.030	0.030	12/08/2014		0.050	
10/11/2014	0.200	0.740	5.250	0.150	0.400	0.210	0.150		0.290	0.120		0.050	0.160		0.050	0.050	0.030	0.040	0.030	10/11/2014		0.150	
9/02/2015	0.070	0.670	15.000	0.090	0.720	0.140	0.150	0.100	0.340	0.120	0.100	0.090	0.150	0.780	0.090	0.030	0.090	0.030	0.080	9/02/2015	0.060	0.050	0.100
11/05/2015	0.090	0.580	8.960	0.090	0.650	0.230	0.160	0.070	0.210	0.290	0.120	0.080	0.180	0.390	0.080	0.030	0.190	0.080	0.070	11/05/2015	0.040	0.060	0.110
11/08/2015	0.030	0.710	5.750	0.200	0.670	0.180	0.120	0.080	0.240	0.140	0.060	0.030	0.140		0.070	0.050	0.070	0.050	0.080	11/08/2015	0.340	0.030	0.110
10/11/2015	0.150	0.710	7.030	0.110	0.560	0.120	0.130	0.050	0.370	0.110	0.050	0.430	0.050	0.420	0.080	0.040	0.030	0.040	0.080	10/11/2015	0.230	0.040	0.130
8/02/2016	0.250	0.710	5.960	0.190	0.740	0.250	0.260	0.240	0.300	0.140	0.130	0.260	0.170	0.700	0.080	0.030	0.040	0.100	0.080	8/02/2016	0.720	0.070	0.310
9/05/2016	0.160	0.630	6.540	0.380	0.840	0.220	0.170	0.080	0.440	0.070	0.080	0.150	0.570		0.090	0.060	0.050	0.080	0.070	9/05/2016	0.140	0.140	0.160
9/08/2016	0.040	0.150	4.090	0.140	0.530	0.220	0.150	0.030	0.310	0.120	0.120	0.070	0.180	0.580	0.090	0.050	0.060	0.040	0.050	9/08/2016	0.550	0.070	0.080
7/11/2016	0.060	0.860	6.700	0.170	0.890	0.290	0.190	0.080		0.210	0.140	0.050	0.060		0.080	0.040	0.030	0.030	0.040	7/11/2016		0.100	
7/02/2017	0.110	0.530	5.180	0.360	0.300	0.300	0.180	0.060	0.570	0.200		0.060	0.250	0.310	0.080	0.030	0.060	0.020	0.060	7/02/2017		0.100	0.490
8/05/2017	0.110	0.380	3.900	0.220	0.350	0.280	0.150	0.040		0.090	0.110	0.060	0.090	0.300	0.060	0.040	0.050	0.020	0.060	8/05/2017	0.040	0.030	0.070
8/08/2017	0.040	0.050	5.560	0.310	0.360	0.150	0.160	0.050	0.470	0.120	0.170	0.070	0.180	0.420	0.100	0.040	0.040	0.020	0.050	8/08/2017	0.910	0.060	0.080
7/11/2017	0.310		4.650	0.290	0.630	0.330	0.110	0.050	0.230	0.080	0.140	0.050	0.070	0.320	0.110	0.030	0.070	0.060	0.040	7/11/2017	0.050	0.080	0.150
14/02/2018	0.120		6.070	0.270	0.420	0.070	0.120	0.050		0.330	0.270	0.060	0.110	0.280	0.120	0.040	0.020	0.030	0.050	14/02/2018		0.130	
9/05/2018	0.160		5.940		0.720	0.120	0.020	0.020		0.090	0.130	0.060	0.070	0.390	0.130	0.080	0.030	0.030	0.120	9/05/2018	0.110	0.040	0.110
15/08/2018	0.130		2.730	0.280	0.670	0.200	0.140	0.100		0.280		0.070	0.080	0.480	0.170	0.080	0.040	0.040	0.070	15/08/2018		0.060	
14/11/2018	0.060		5.250	0.330	0.660	0.110	0.140	0.020	0.190	0.140	0.250	0.060	0.150	0.530	0.110	0.050	0.050	0.050	0.090	14/11/2018		0.090	0.230
13/02/2019	0.230		6.270	0.410	0.250	0.180	0.240		0.310				0.380		0.110	0.060	0.030	0.040	0.100	13/02/2019		6.500	
15/05/2019	0.170		6.510	0.510	0.490	0.510	0.320	0.130	0.510	0.430		0.110	0.140	0.550	0.150	0.050	0.030	0.040	0.040	15/05/2019	6.100	6.000	6.400
14/08/2019	0.070		5.760	0.370	0.640	0.250	0.270	0.050		0.210		0.180	0.200	0.500	0.150	0.050	0.050	0.040	0.030	14/08/2019	6.100	6.100	6.500
13/11/2019	0.380		5.970	0.460	0.520	0.210	0.150								0.130	0.060	0.030	0.040	0.060	13/11/2019		6.700	
25/02/2020	0.060		6.680	0.060	0.350	0.390	0.150	0.100	0.470	0.090	0.140	0.110	0.150	0.190	0.080	0.060	0.030	0.040	0.050	25/02/2020	0.230	0.080	0.120
12/05/2020	0.060		6.660	0.130	0.190	0.150	0.140	0.060	0.240	0.120	0.110	0.060	0.090	0.300	0.090	0.040	0.100	0.030	0.050	12/05/2020	0.650	0.050	0.150
11/08/2020	0.030		7.000	0.080	0.330	0.160	0.150	0.120	0.610	0.080	0.070	0.040	0.090	0.220	0.080	0.040	0.030	0.050	0.030	11/08/2020	0.530	0.020	0.060
10/11/2020	0.080		7.050	0.480	0.510	0.100	0.170	0.100	0.580	0.120	0.130		0.110	0.720	0.110	0.050	0.080	0.040	0.070	10/11/2020		0.110	0.300
10/02/2021	0.1		6.1	0.2	0.2	0.2	0.1	0.0	0.2	0.1	0.2	0.0	0.1	0.3	0.1	0.0	0.2	0.0	0.0	10/02/2021	0.58	0.07	0.12
12/05/2021	0.1		6.1	0.1	0.2	0.1	0.1	0.0	0.2	0.1	0.0	0.1	0.1	0.4	0.1	0.6	0.1	0.0	0.1	12/05/2021	0.23	0.03	0.08
11/08/2021	0.1		6.2	0.2	0.4	0.1	0.1	0.1	0.5	0.1	0.0	0.0	0.1	0.9	0.2	0.4	0.2	0.0	0.0	11/08/2021	0.35	0.08	0.04
9/11/2021	0.1		6.2	0.2	0.2	0.2	0.2	0.1	0.4	0.2	0.1	0.1	0.1	0.3	0.1	0.3	0.0	0.1	0.1	9/11/2021	3.79	0.05	0.12

Phosphorus (mg/L)

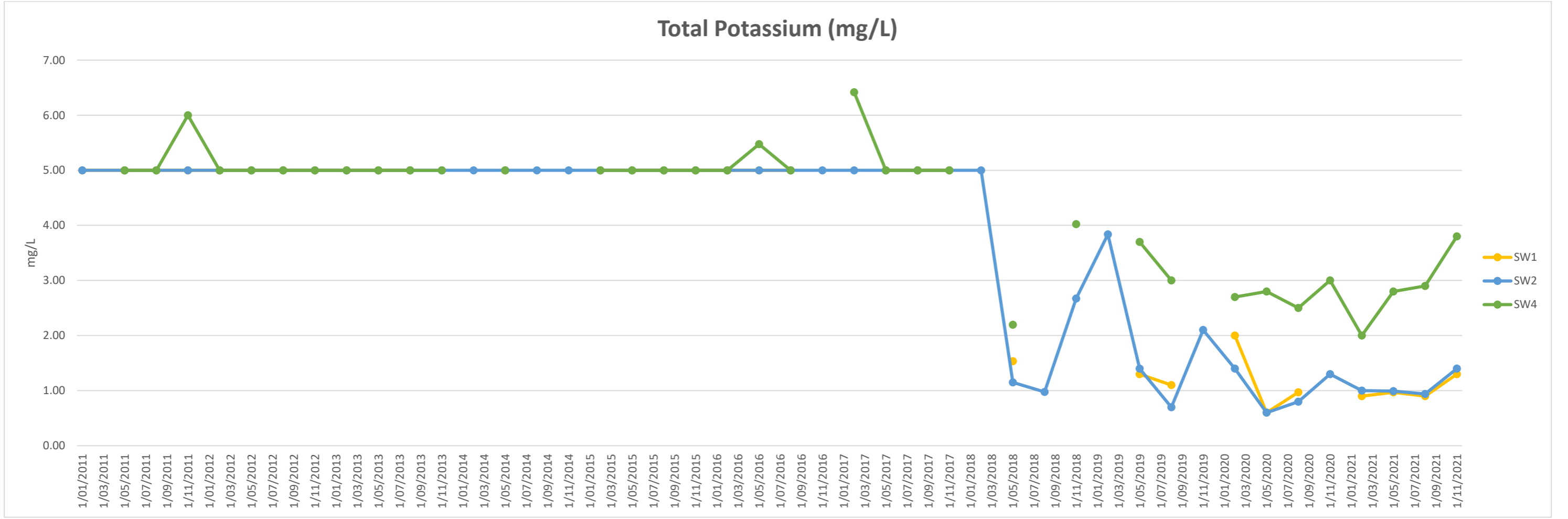
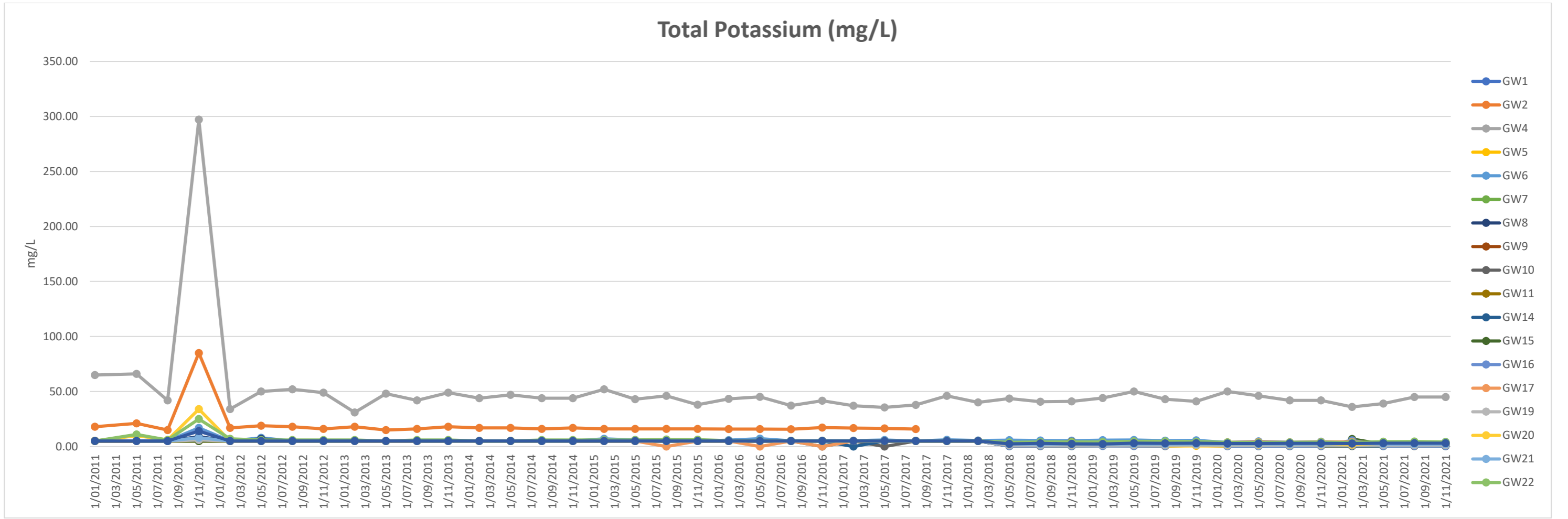


Phosphorus (mg/L)



K	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	5.00	18.00	65.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00		5.00	5.00
10/05/2011	5.00	21.00	66.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	10.00	5.00	11.00	5.00
9/08/2011	5.00	15.00	42.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00	6.00	5.00
8/11/2011	5.00	85.00	297.00	5.00	17.00	7.00	9.00	7.00	7.00	5.00	8.00	5.00	15.00		6.00	34.00	8.00	25.00	14.00
6/02/2012	5.00	17.00	34.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	7.00	5.00
8/05/2012	5.00	19.00	50.00	5.00	8.00	5.00	7.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00
6/08/2012	5.00	18.00	52.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00
13/11/2012	5.00	16.00	49.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00
13/02/2013	5.00	18.00	31.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00
14/05/2013	5.00	15.00	48.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
6/08/2013	5.00	16.00	42.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00
12/11/2013	5.00	18.00	49.00	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	5.00		5.00	5.00	5.00	6.00	5.00
11/02/2014	5.00	17.00	44.00	5.00	5.00	5.00	5.00		5.00						5.00	5.00	5.00	5.00	5.00
13/05/2014	5.00	17.00	47.00	5.00	5.00	5.00	5.00		5.00	5.00		5.00			5.00	5.00	5.00	5.00	5.00
12/08/2014	5.00	16.00	44.00	5.00	5.00	5.00	5.00		5.00			5.00	5.00		5.00	5.00	5.00	6.00	5.00
10/11/2014	5.00	17.00	44.00	5.00	5.00	5.00	5.00		5.00	5.00		5.00	5.00		5.00	5.00	5.00	6.00	5.00
9/02/2015	5.00	16.00	52.00	5.00	7.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00
11/05/2015	5.00	16.00	43.00	5.00	6.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.00	5.00
11/08/2015	5.00	16.00	46.00	5.00	5.50	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	NT	5.00	5.00	5.00	6.40	5.00
10/11/2015	5.00	16.00	38.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	6.30	5.00
8/02/2016	5.00	15.96	43.26	5.00	5.79	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.38	5.00
9/05/2016	5.00	15.89	45.09	5.00	7.24	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.30	5.00
9/08/2016	5.00	15.66	37.23	5.00	5.26	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.16	5.00
7/11/2016	5.00	17.29	41.69	5.00	5.42	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
7/02/2017	5.00	16.85	37.10	5.00	5.36	5.00	5.00	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
8/05/2017	5.00	16.51	35.50	5.00	5.92	5.00	5.00	5.00	NT	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
8/08/2017	5.00	15.82	37.83	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
7/11/2017	5.00		46.02	5.00	6.19	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.02	5.00	5.00	5.00	5.00	5.00
14/02/2018	5.00		40.10	5.00	5.52	5.00	5.00	5.00		5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
9/05/2018	0.55		43.59		5.74	1.86	2.21	2.67		0.50	0.53	1.58	0.50	3.43	1.07	2.21	2.15	3.86	2.44
15/08/2018	0.52		40.73	0.52	5.57	1.77	2.17	2.27		0.50		1.62	0.50	3.58	1.25	2.35	2.14	4.16	2.94
14/11/2018	0.50		41.09	0.54	5.35	1.82	2.22	4.41	1.44	0.50	0.53	1.57	0.50	3.75	1.02	2.04	2.09	4.17	2.51
13/02/2019	0.91		44.15	0.57	5.77	1.96	2.36		1.47				0.50		1.19	2.11	1.99	4.18	2.35
15/05/2019	0.70		50.00	0.60	5.90	2.00	2.30	2.10	1.40	0.60		1.90	0.50	4.50	1.40	2.00	2.20	4.70	3.00
14/08/2019	0.50		43.00	0.50	5.40	1.70	2.10	2.10		0.50		1.60	0.50	3.30	1.10	2.10	2.10	4.70	2.90
13/11/2019	1.10		41.00	0.60	5.60	2.10	2.10								1.20	2.00	2.10	4.40	3.00
25/02/2020	0.50		50.00	0.50	3.70	1.80	2.40	3.30	1.60	1.10	0.50	2.20	0.50	3.80	1.00	1.80	2.20	3.90	2.70
12/05/2020	0.50		46.00	0.50	4.80	1.70	2.30	2.30	3.50	0.50	0.50	1.90	0.50	4.20	0.97	1.80	2.10	3.70	2.80
11/08/2020	0.50		42.00	0.50	3.80	1.50	2.30	3.10	1.80	0.50	0.50	2.00	0.50	3.90	1.10	1.80	2.00	3.80	2.90
10/11/2020	0.70		42.00	0.50	4.50	1.80	2.40	1.60	1.40	0.50	0.60		0.50	4.10	1.20	1.80	2.10	4.00	2.90
10/02/2021	0.6		36.0	0.5	3.9	1.9	2.3	3.1	1.3	0.6	0.5	6.9	5.6	4.1	1.0	1.7	2.8	3.7	2.8
12/05/2021	0.9		39.0	0.5	3.7	2.0	2.4	2.4	1.2	0.7	0.5	2.1	0.5	3.3	1.2	2.5	2.3	4.5	3.0
11/08/2021	0.5		45.0	0.5	3.9	2.1	2.4	3.6	1.5	0.5	0.6	2.0	0.5	3.4	1.3	2.3	2.2	4.6	3.1
9/11/2021	0.5		45.0	0.5	4.2	2.0	2.3	2.6	1.5	0.5	0.5	1.9	0.5	3.6	1.2	2.2	2.1	4.2	3.1

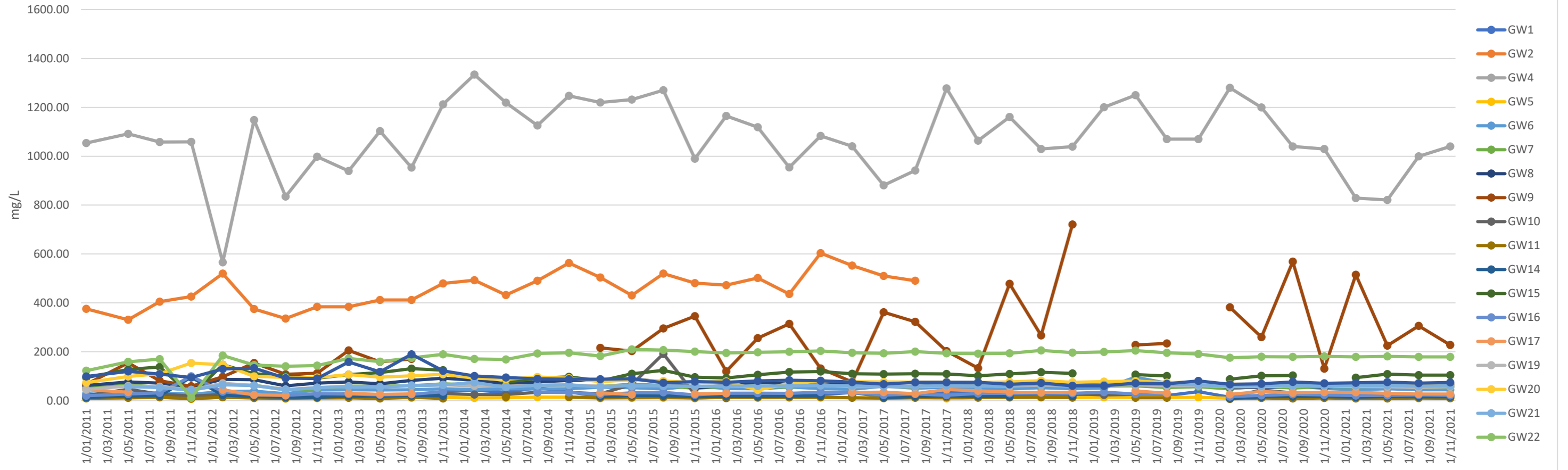
K	SW1	SW2	SW4
31/01/2011	5.00	5.00	
10/05/2011	5.00	5.00	5.00
9/08/2011	5.00	5.00	5.00
8/11/2011	5.00	5.00	6.00
6/02/2012	5.00	5.00	5.00
8/05/2012	5.00	5.00	5.00
6/08/2012	5.00	5.00	5.00
13/11/2012	5.00	5.00	5.00
13/02/2013	5.00	5.00	5.00
14/05/2013	5.00	5.00	5.00
6/08/2013	5.00	5.00	5.00
12/11/2013		5.00	5.00
11/02/2014		5.00	
13/05/2014	5.00	5.00	5.00
12/08/2014		5.00	
10/11/2014		5.00	
9/02/2015	5.00	5.00	5.00
11/05/2015	5.00	5.00	5.00
11/08/2015	5.00	5.00	5.00
10/11/2015	5.00	5.00	5.00
8/02/2016	5.00	5.00	5.00
9/05/2016	5.00	5.00	5.48
9/08/2016	5.00	5.00	5.00
7/11/2016		5.00	
7/02/2017		5.00	6.42
8/05/2017	5.00	5.00	5.00
8/08/2017	5.00	5.00	5.00
7/11/2017	5.00	5.00	5.00
14/02/2018		5.00	
9/05/2018	1.53	1.15	2.20
15/08/2018		0.98	
14/11/2018		2.67	4.02
10/02/2019		3.84	
15/05/2019	1.30	1.40	3.70
14/08/2019	1.10	0.70	3.00
12/11/2019		2.10	
25/02/2020	2.00	1.40	2.70
12/05/2020	0.60	0.60	2.80
11/08/2020	0.97	0.80	2.50
10/11/2020		1.30	3.00
10/02/2021	0.90	1.00	2.00
12/05/2021	0.97	0.99	2.80
11/08/2021	0.90	0.94	2.90
9/11/2021	1.30	1.40	3.80



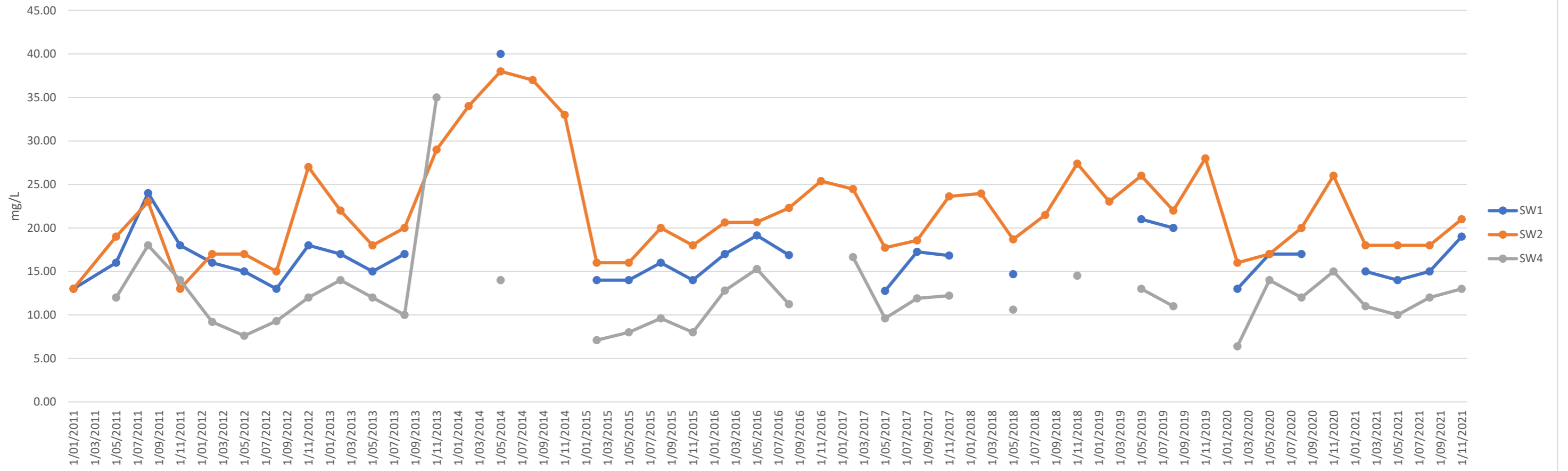
Na	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	16.00	376.00	1054.00	9.40	29.00	51.00	62.00	67.00	21.00	9.60	13.00	95.00	20.00	45.00	46.00	74.00		123.00	99.00
10/05/2011	15.00	331.00	1092.00	11.00	20.00	64.00	77.00	155.00	47.00	12.00	19.00	128.00	27.00	35.00	60.00	99.00	57.00	159.00	120.00
9/08/2011	21.00	405.00	1058.00	13.00	33.00	55.00	72.00	82.00	27.00	14.00	20.00	138.00	32.00		57.00	110.00	54.00	170.00	109.00
8/11/2011	13.00	426.00	1059.00	7.30	26.00	44.00	57.00	59.00	19.00	8.60	96.00	22.00	100.00		45.00	154.00	43.00	12.00	95.00
6/02/2012	30.00	520.00	566.00	14.00	38.00	66.00	87.00	98.00	25.00	14.00	23.00	147.00	37.00	45.00	71.00	147.00	65.00	185.00	130.00
8/05/2012	19.00	375.00	1148.00	11.00	39.00	63.00	86.00	154.00	23.00	11.00	17.00	110.00	25.00	24.00	62.00	100.00	62.00	146.00	133.00
6/08/2012	14.00	336.00	835.00	8.70	29.00	46.00	61.00	108.00	20.00	9.60	15.00	102.00	22.00	22.00	46.00	95.00	44.00	141.00	92.00
13/11/2012	25.00	384.00	998.00	10.00	44.00	48.00	72.00	112.00	23.00	12.00	14.00	92.00	29.00		54.00	95.00	53.00	144.00	91.00
13/02/2013	16.00	384.00	940.00	12.00	45.00	59.00	77.00	206.00	29.00	12.00	19.00	107.00	27.00	30.00	59.00	107.00	58.00	173.00	158.00
14/05/2013	17.00	412.00	1103.00	11.00	44.00	59.00	69.00	159.00	21.00	8.90	19.00	115.00	24.00	26.00	56.00	96.00	55.00	160.00	118.00
6/08/2013	21.00	412.00	954.00	12.00	45.00	61.00	83.00	171.00	25.00	14.00	21.00	131.00	26.00	28.00	61.00	102.00	63.00	175.00	190.00
12/11/2013	37.00	480.00	1212.00	13.00	49.00	69.00	92.00		29.00	9.20	20.00	125.00	37.00		65.00	108.00	64.00	190.00	122.00
11/02/2014	43.00	493.00	1334.00	11.00	46.00	65.00	84.00		25.00						61.00	92.00	75.00	171.00	101.00
13/05/2014	34.00	432.00	1219.00	12.00	49.00	62.00	70.00		25.00	15.00		76.00			59.00	87.00	55.00	169.00	95.00
12/08/2014	53.00	491.00	1126.00	15.00	48.00	63.00	77.00		34.00			92.00	35.00		63.00	97.00	63.00	193.00	89.00
10/11/2014	37.00	563.00	1247.00	15.00	49.00	64.00	83.00		34.00	15.00		98.00	33.40		64.00	92.00	64.00	196.00	88.00
9/02/2015	16.00	504.00	1220.00	9.90	55.00	58.00	84.00	216.00	28.00	12.00	17.00	81.00	25.00	32.00	59.00	78.00	56.00	183.00	88.00
11/05/2015	18.00	431.00	1232.00	11.00	53.00	68.00	88.00	203.00	66.00	13.00	21.00	110.00	32.00	25.00	61.00	85.00	62.00	210.00	90.00
11/08/2015	19.00	520.00	1270.00	12.00	48.00	62.00	78.00	296.00	192.00	15.00	20.00	124.00	34.00		61.00	80.00	60.00	207.00	73.00
10/11/2015	23.00	481.00	990.00	9.70	61.00	50.00	52.00	346.00	26.00	11.00	16.00	96.00	24.00	28.00	58.00	75.00	59.00	201.00	78.00
8/02/2016	29.47	472.92	1165.20	15.82	49.32	59.78	63.15	120.06	10.83	13.38	17.54	92.67	30.72	29.99	59.98	78.64	59.30	195.40	75.49
9/05/2016	22.54	501.68	1119.15	11.96	49.19	60.17	76.98	255.65	28.93	13.54	17.14	105.77	31.10		56.84	43.92	60.35	198.04	81.27
9/08/2016	21.22	436.53	954.44	12.85	56.13	55.03	66.73	314.68	15.43	13.70	18.70	117.54	30.35	28.03	60.02	70.84	59.96	200.05	83.43
7/11/2016	25.37	603.61	1082.99	12.93	49.30	67.24	80.43	131.50		14.58	19.47	119.34	35.12		63.11	79.84	62.82	203.37	81.49
7/02/2017	33.70	553.03	1041.14	12.29	46.69	58.25	65.84	76.81	22.48	11.78		110.10	32.85	33.74	57.25	77.57	60.83	195.87	76.18
8/05/2017	15.10	510.61	880.88	10.39	59.49	60.01	72.92	362.04		10.26	12.63	109.18	23.08	34.79	57.85	77.02	58.04	193.88	67.95
8/08/2017	17.41	490.61	941.95	12.36	51.11	55.57	73.20	322.79	24.69	12.19	16.86	110.07	27.29	28.77	57.04	76.40	59.21	201.19	75.25
7/11/2017	34.62		1277.58	9.01	55.42	67.08	70.67	203.18	22.98	13.43	18.63	109.35	22.51	45.88	59.17	76.42	61.47	194.04	75.48
14/02/2018	28.03		1063.90	12.27	49.74	59.74	59.94	132.93		12.88	17.33	101.58	29.32	40.62	59.91	74.75	59.57	192.33	75.57
9/05/2018	18.15		1160.42		48.12	60.86	70.77	478.11		13.00	16.89	109.34	30.05	34.79	59.87	77.02	63.24	193.85	67.25
15/08/2018	27.02		1029.59	13.38	53.01	62.14	71.45	267.26		14.04		116.56	32.35	33.47	63.41	81.75	66.54	205.86	72.53
14/11/2018	21.15		1039.53	12.77	49.17	59.82	73.60	721.00	28.78	12.40	17.99	111.33	30.35	34.97	59.83	75.07	61.19	196.79	61.04
13/02/2019	31.44		1200.65	13.85	51.85	59.88	72.54		24.00				34.90		62.66	78.20	64.87	199.25	61.03
15/05/2019	21.00		1250.00	13.00	96.00	61.00	74.00	228.00	26.00	12.00		107.00	27.00	40.00	65.00	80.00	68.00	205.00	72.00
14/08/2019	21.00		1070.00	13.00	72.00	54.00	69.00	234.00		12.00		101.00	29.00	31.00	61.00	74.00	66.00	196.00	69.00
13/11/2019	37.00		1070.00	14.00	59.00	57.00	68.00								62.00	76.00	65.00	191.00	81.00
25/02/2020	14.00		1280.00	10.00	63.00	48.00	55.00	382.00	16.00	7.30	9.30	88.00	17.00	26.00	57.00	68.00	60.00	176.00	67.00
12/05/2020	15.00		1200.00	12.00	51.00	59.00	54.00	260.00	43.00	11.00	16.00	102.00	22.00	38.00	57.00	67.00	61.00	180.00	69.00
11/08/2020	21.00		1040.00	12.00	60.00	52.00	61.00	569.00	32.00	9.40	17.00	103.00	26.00	32.00	59.00	67.00	62.00	179.00	77.00
10/11/2020	30.00		1030.00	12.00	50.00	58.00	56.00	131.00	26.00	11.00	17.00		24.00	35.00	59.00	65.00	63.00	181.00	71.00
10/02/2021	18.0		829	9.6	45.0	57.0	65.0	515	25.0	9.2	15.0	94.0	21.0	34.0	58.0	62.0	62.0	179.0	73.0
12/05/2021	21.0		821	11.0	49.0	59.0	66.0	225	14.0	9.3	17.0	109.0	22.0	30.0	57.0	65.0	62.0	181.0	76.0
11/08/2021	20.0		1000	10.0	45.0	54.0	63.0	306	20.0	11.0	16.0	105.0	24.0	27.0	54.0	61.0	59.0	179.0	72.0
9/11/2021	21.0		1040	12.0	45.0	56.0	66.0	228	22.0	10.0	16.0	105.0	22.0	27.0	57.0	62.0	61.0	179.0	75.0

Na	SW1	SW2	SW4
31/01/2011	13.00	13.00	
10/05/2011	16.00	19.00	12.00
9/08/2011	24.00	23.00	18.00
8/11/2011	18.00	13.00	14.00
6/02/2012	16.00	17.00	9.20
8/05/2012	15.00	17.00	7.60
6/08/2012	13.00	15.00	9.30
13/11/2012	18.00	27.00	12.00
13/02/2013	17.00	22.00	14.00
14/05/2013	15.00	18.00	12.00
6/08/2013	17.00	20.00	10.00
12/11/2013		29.00	35.00
11/02/2014		34.00	
13/05/2014	40.00	38.00	14.00
12/08/2014		37.00	
10/11/2014		33.00	
9/02/2015	14.00	16.00	7.10
11/05/2015	14.00	16.00	8.00
11/08/2015	16.00	20.00	9.60
10/11/2015	14.00	18.00	8.00
8/02/2016	17.01	20.62	12.81
9/05/2016	19.15	20.68	15.27
9/08/2016	16.89	22.30	11.23
7/11/2016		25.38	
7/02/2017		24.47	16.66
8/05/2017	12.76	17.73	9.61
8/08/2017	17.26	18.57	11.89
7/11/2017	16.83	23.63	12.22
14/02/2018		23.95	
9/05/2018	14.70	18.68	10.60
15/08/2018		21.49	
14/11/2018		27.38	14.50
10/02/2019		23.03	
15/05/2019	21.00	26.00	13.00
14/08/2019	20.00	22.00	11.00
12/11/2019		28.00	
25/02/2020	13.00	16.00	6.40
12/05/2020	17.00	17.00	14.00
11/08/2020	17.00	20.00	12.00
10/11/2020		26.00	15.00
10/02/2021	15.00	18.00	11.00
12/05/2021	14.00	18.00	10.00
11/08/2021	15.00	18.00	12.00
9/11/2021	19.00	21.00	13.00

Total Sodium (mg/L)



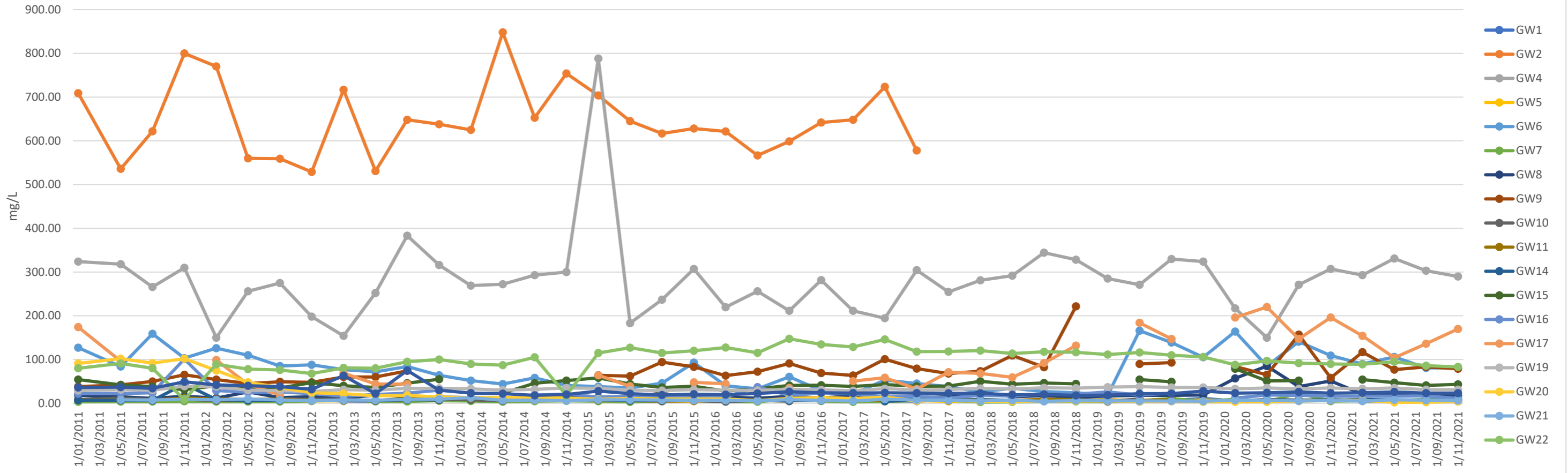
Total Sodium (mg/L)



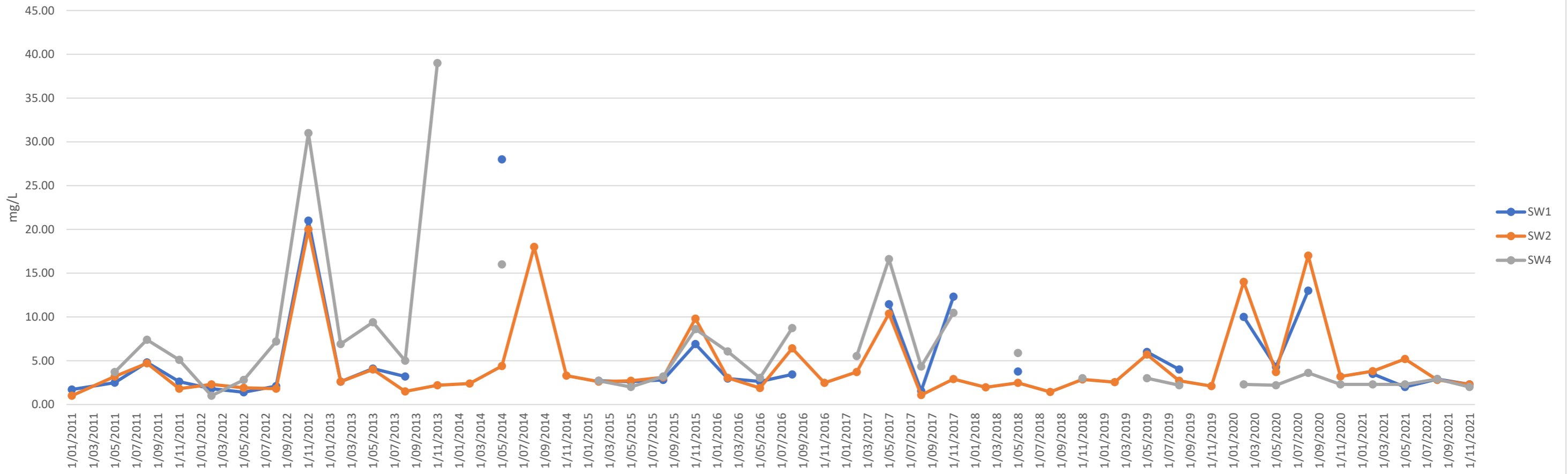
Sulfate	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	4.10	709.00	324.00	7.50	127.00	3.60	18.00	38.00	8.20	7.80	7.10	54.00	22.00	174.00	29.00	91.00		80.00	36.00
10/05/2011	5.20	536.00	318.00	6.80	84.00	3.90	15.00	42.00	12.00	7.50	6.60	42.00	22.00	96.00	31.00	102.00	8.00	91.00	37.00
9/08/2011	5.40	622.00	266.00	5.20	159.00	3.90	11.00	50.00	8.10	7.20	6.20	38.00	24.00		30.00	92.00	7.60	80.00	34.00
8/11/2011	8.10	800.00	310.00	7.40	103.00	4.70	16.00	65.00	9.50	12.00	44.00	31.00	101.00		39.00	102.00	9.00	8.20	49.00
6/02/2012	9.00	770.00	150.00	7.50	126.00	4.10	12.00	54.00	5.80	9.70	8.80	40.00	29.00	99.00	38.00	75.00	7.90	89.00	42.00
8/05/2012	6.10	560.00	256.00	6.50	110.00	3.90	26.00	45.00	6.50	8.80	6.80	35.00	25.00	43.00	30.00	48.00	10.00	78.00	40.00
6/08/2012	5.40	559.00	275.00	6.30	85.00	4.00	13.00	49.00	9.50	9.60	6.60	35.00	26.00	19.00	29.00	36.00	7.40	76.00	38.00
13/11/2012	7.60	529.00	198.00	5.30	88.00	5.30	15.00	48.00	8.90	7.20	6.20	47.00	22.00		27.00	24.00	5.90	68.00	32.00
13/02/2013	5.20	717.00	154.00	6.00	77.00	8.30	12.00	60.00	9.30	6.70	8.00	40.00	16.00	69.00	31.00	22.00	7.60	81.00	63.00
14/05/2013	4.80	531.00	252.00	6.10	72.00	4.40	19.00	60.00	5.70	6.00	6.60	36.00	20.00	44.00	30.00	17.00	7.30	80.00	22.00
6/08/2013	4.50	648.00	383.00	7.40	84.00	4.30	16.00	74.00	8.20	11.00	8.30	46.00	23.00	44.00	34.00	18.00	8.80	95.00	75.00
12/11/2013	10.00	638.00	316.00	7.30	64.00	6.00	14.00		8.90	6.90	7.60	55.00	30.00		34.00	14.00	9.40	100.00	30.00
11/02/2014	13.00	625.00	269.00	6.00	52.00	5.20	13.00		8.00						33.00	13.00	13.00	90.00	23.00
13/05/2014	11.00	848.00	272.00	5.30	44.00	3.60	12.00		5.50	8.20		23.00			30.00	13.00	6.60	87.00	22.00
12/08/2014	13.00	653.00	293.00	7.40	58.00	4.80	15.00		9.40			46.00	19.00		32.00	14.00	7.00	105.00	18.00
10/11/2014	10.00	754.00	300.00	7.60	41.00	5.60	14.00		9.00	9.40		52.00	21.00		35.00	12.00	5.80	18.00	20.00
9/02/2015	6.40	704.00	788.00	6.60	38.00	4.60	10.00	64.00	7.20	7.30	8.10	58.00	14.00	64.00	34.00	9.20	7.90	115.00	28.00
11/05/2015	4.90	645.00	183.00	5.50	35.00	3.30	12.00	62.00	12.00	5.80	6.00	44.00	16.00	39.00	30.00	11.00	8.00	127.00	22.00
11/08/2015	4.50	617.00	237.00	5.30	46.00	6.20	15.00	94.00	24.00	5.30	5.80	36.00	18.00		29.00	10.00	7.70	115.00	19.00
10/11/2015	5.00	628.00	307.00	4.70	93.00	6.20	17.00	83.00	5.90	6.10	6.20	39.00	12.00	48.00	31.00	10.00	6.70	120.00	21.00
8/02/2016	7.33	621.51	219.67	6.21	40.14	4.38	14.64	63.18	3.65	7.94	6.49	27.74	14.59	44.34	29.76	9.87	6.53	127.49	19.76
9/05/2016	5.80	566.50	255.94	5.95	32.91	3.40	11.39	72.08	6.61	7.02	6.00	33.11	36.72		29.32	6.03	5.62	115.32	22.23
9/08/2016	6.05	598.78	211.58	5.48	60.27	9.59	15.63	90.95	4.88	6.71	6.46	40.71	18.21	35.04	31.62	11.17	8.44	147.48	26.31
7/11/2016	7.18	641.77	281.56	6.58	29.02	5.28	12.38	68.90		7.94	6.32	41.10	23.91		30.69	13.30	6.65	134.73	24.01
7/02/2017	9.58	648.05	211.49	6.22	21.33	3.30	16.87	63.41	6.32	7.48		38.45	21.19	50.55	28.62	10.80	5.13	128.55	23.30
8/05/2017	6.14	723.28	194.42	4.90	52.95	4.47	14.43	100.69		5.83	4.70	42.87	14.61	58.64	33.37	14.16	9.06	145.91	23.84
8/08/2017	4.78	577.91	304.27	6.49	45.30	5.84	12.79	79.16	8.84	7.47	6.61	38.94	16.21	32.79	30.41	5.26	7.67	117.97	23.24
7/11/2017	8.14		254.53	4.38	37.91	6.91	14.94	67.78	8.09	7.32	6.01	39.30	11.70	70.88	31.43	6.35	6.69	118.41	22.92
14/02/2018	6.94		281.32	6.52	25.88	2.97	24.96	73.32		8.22	7.86	50.15	18.02	68.47	33.84	4.86	5.60	120.33	22.95
9/05/2018	6.04		291.91		33.99	3.32	15.02	109.31		6.42	6.78	43.64	16.41	59.41	32.58	4.26	7.13	113.84	19.40
15/08/2018	7.10		344.51	6.93	26.54	4.78	17.19	82.31		9.03		46.32	21.07	92.30	35.24	4.80	4.27	117.78	20.50
14/11/2018	6.50		328.40	7.14	23.96	4.19	13.61	221.60	9.69	8.34	7.18	44.38	20.88	131.91	34.75	5.04	6.49	116.34	17.97
13/02/2019	8.74		285.25	7.56	18.32	3.96	16.38		3.79				26.08		36.99	4.96	5.55	111.23	18.53
15/05/2019	4.10		271.00	7.10	166.00	5.70	18.00	90.00	9.80	6.70		54.00	19.00	184.00	38.00	4.40	5.40	116.00	22.00
14/08/2019	6.30		330.00	6.90	139.00	11.00	18.00	93.00		8.20		49.00	23.00	147.00	36.00	4.50	5.20	110.00	22.00
13/11/2019	11.00		324.00	7.30	105.00	3.70	19.00								36.00	3.70	4.90	106.00	28.00
25/02/2020	5.00		217.00	6.00	164.00	9.50	57.00	84.00	5.70	4.20	5.30	79.00	12.00	196.00	33.00	3.00	7.00	88.00	23.00
12/05/2020	5.50		150.00	6.90	85.00	3.60	85.00	65.00	8.70	7.60	7.50	51.00	19.00	220.00	35.00	3.70	7.20	97.00	24.00
11/08/2020	6.20		271.00	5.70	141.00	23.00	38.00	157.00	7.20	6.70	6.60	52.00	18.00	147.00	33.00	5.20	5.30	92.00	26.00
10/11/2020	8.60		307.00	6.40	109.00	4.80	51.00	58.00	8.00	6.10	6.80		16.00	196.00	35.00	6.30	6.20	90.00	23.00
10/02/2021	5.3		293	6.2	90	5.9	21.0	117	5.8	6.4	8.6	54.0	16.0	154.0	33.0	6.6	5.1	89.0	24.0
12/05/2021	5.5		331	6.3	106	4.4	22.0	77	4.8	6.2	7.5	47.0	16.0	104.0	35.0	2.1	8.0	95.0	26.0
11/08/2021	5.4		303	5.5	81	9.5	18.0	83	7.6	6.9	7.1	41.0	17.0	136.0	31.0	2.5	7.3	86.0	23.0
9/11/2021	4.5		290	6.2	81	7.7	17.0	79	6.9	6.6	7.6	43.0	11.0	170.0	31.0	4.0	6.5	83.0	23.0

Sulfate	SW1	SW2	SW4
31/01/2011	1.70	1.00	
10/05/2011	2.50	3.20	3.70
9/08/2011	4.80	4.70	7.40
8/11/2011	2.60	1.80	5.10
6/02/2012	1.80	2.30	1.00
8/05/2012	1.40	1.90	2.80
6/08/2012	2.10	1.80	7.20
13/11/2012	21.00	20.00	31.00
13/02/2013	2.60	2.60	6.90
14/05/2013	4.10	4.00	9.40
6/08/2013	3.20	1.50	5.00
12/11/2013		2.20	39.00
11/02/2014		2.40	
13/05/2014	28.00	4.40	16.00
12/08/2014		18.00	
10/11/2014		3.30	
9/02/2015	2.70	2.60	2.70
11/05/2015	2.60	2.70	2.00
11/08/2015	2.80	3.10	3.20
10/11/2015	6.90	9.80	8.60
8/02/2016	2.96	3.03	6.06
9/05/2016	2.62	1.89	3.04
9/08/2016	3.44	6.42	8.74
7/11/2016		2.48	
7/02/2017		3.70	5.54
8/05/2017	11.45	10.37	16.60
8/08/2017	1.55	1.09	4.33
7/11/2017	12.31	2.91	10.48
14/02/2018		1.95	
9/05/2018	3.77	2.48	5.89
15/08/2018		1.42	
14/11/2018		2.87	3.00
10/02/2019		2.54	
15/05/2019	6.00	5.70	3.00
14/08/2019	4.00	2.70	2.20
12/11/2019		2.10	
25/02/2020	10.00	14.00	2.30
12/05/2020	4.30	3.70	2.20
11/08/2020	13.00	17.00	3.60
10/11/2020		3.20	2.30
10/02/2021	3.50	3.80	2.30
12/05/2021	2.00	5.20	2.30
11/08/2021	2.90	2.80	2.90
9/11/2021	2.30	2.30	2.00

Sulfate (mg/L)



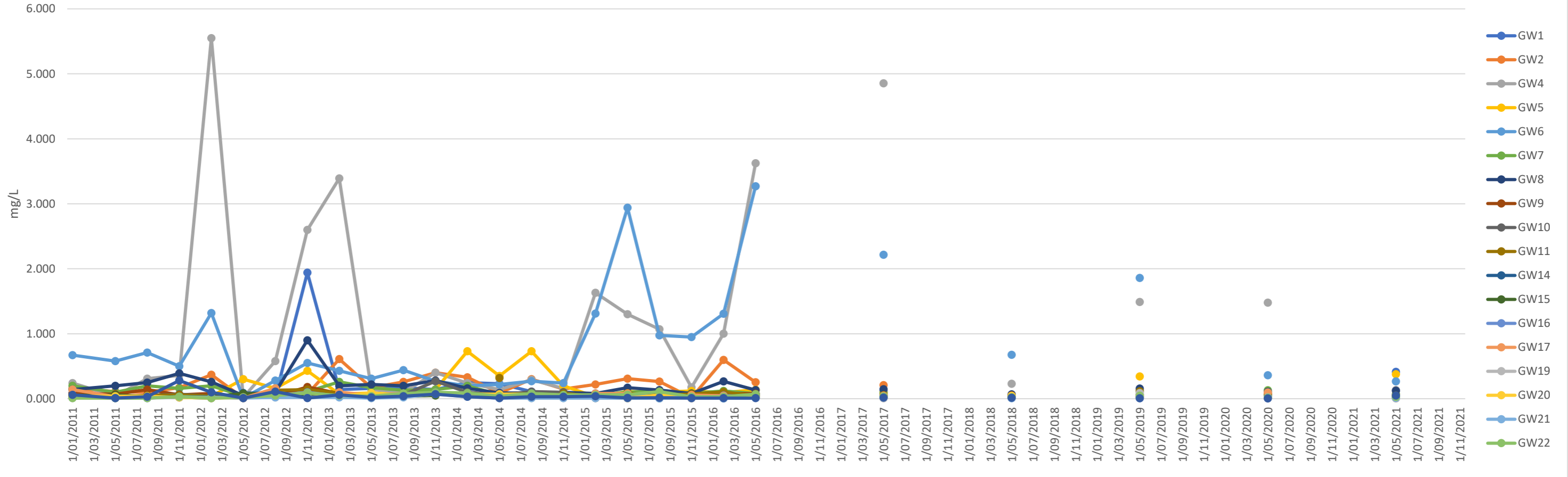
Sulfate (mg/L)



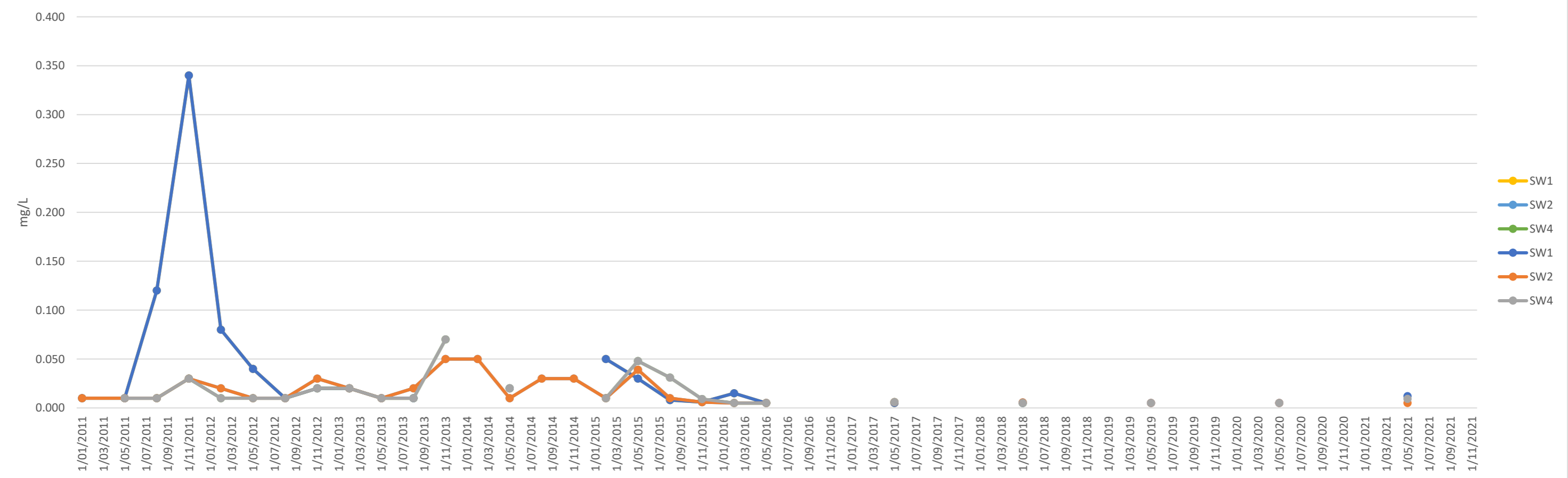
Zn	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
31/01/2011	0.090	0.160	0.240	0.030	0.670	0.200	0.140	0.080	0.030	0.030	0.030	0.050	0.020	0.140	0.010	0.040		0.010	0.060
10/05/2011	0.030	0.110	0.040	0.050	0.580	0.100	0.200	0.070	0.010	0.040	0.020	0.060	0.020	0.030	0.010	0.040	0.010	0.010	0.010
9/08/2011	0.010	0.100	0.310	0.040	0.710	0.200	0.250	0.140	0.050	0.050	0.030	0.030	0.020		0.010	0.040	0.010	0.010	0.030
8/11/2011	0.040	0.170	0.360	0.020	0.500	0.160	0.390	0.060	0.070	0.060	0.020	0.030	0.020		0.020	0.020	0.030	0.030	0.280
6/02/2012	0.010	0.370	5.550	0.040	1.320	0.200	0.260	0.080	0.040	0.040	0.010	0.030	0.020	0.020	0.010	0.010	0.020	0.010	0.100
8/05/2012	0.080	0.010	0.020	0.300	0.010	0.040	0.050	0.010	0.020	0.040	0.090	0.080	0.020	0.010	0.020	0.020	0.010	0.020	0.010
6/08/2012	0.030	0.080	0.580	0.160	0.280	0.080	0.100	0.040	0.040	0.130	0.080	0.070	0.050	0.160	0.020	0.050	0.020	0.050	0.110
13/11/2012	1.940	0.070	2.600	0.430	0.550	0.110	0.900	0.180	0.090	0.140	0.070	0.060	0.100		0.020	0.090	0.020	0.090	0.010
13/02/2013	0.140	0.610	3.390	0.070	0.430	0.260	0.200	0.080	0.060	0.090	0.040	0.050	0.040	0.100	0.030	0.040	0.020	0.050	0.060
14/05/2013	0.160	0.170	0.140	0.090	0.310	0.170	0.220	0.050	0.050	0.030	0.030	0.030	0.020	0.060	0.010	0.090	0.010	0.040	0.020
6/08/2013	0.170	0.260	0.100	0.060	0.440	0.130	0.200	0.040	0.060	0.060	0.030	0.040	0.030	0.080	0.030	0.050	0.020	0.080	0.040
12/11/2013	0.140	0.400	0.400	0.140	0.270	0.140	0.280		0.270	0.100	0.100	0.050	0.100		0.070	0.090	0.080	0.100	0.070
11/02/2014	0.250	0.330	0.240	0.730	0.200	0.200	0.160		0.100						0.030	0.070	0.030	0.090	0.030
13/05/2014	0.230	0.090	0.140	0.350	0.220	0.060	0.090		0.060	0.320		0.060			0.010	0.070	0.010	0.040	0.010
12/08/2014	0.110	0.300	0.290	0.730	0.270	0.090	0.090		0.110			0.080	0.080		0.010	0.071	0.010	0.080	0.030
10/11/2014	0.070	0.150	0.160	0.200	0.240	0.070	0.100		0.100	0.080		0.060	0.040		0.010	0.040	0.010	0.060	0.030
9/02/2015	0.020	0.220	1.630	0.030	1.310	0.060	0.080	0.050	0.010	0.040	0.060	0.040	0.020	0.080	0.010	0.030	0.010	0.060	0.040
11/05/2015	0.045	0.309	1.300	0.113	2.940	0.099	0.169	0.069	0.039	0.086	0.068	0.047	0.048	0.082	0.006	0.011	0.011	0.063	0.012
11/08/2015	0.012	0.264	1.070	0.098	0.975	0.128	0.132	0.066	0.080	0.052	0.033	0.034	0.040		0.005	0.056	0.006	0.110	0.015
10/11/2015	0.069	0.015	0.176	0.119	0.950	0.080	0.080	0.062	0.051	0.074	0.028	0.049	0.036	0.057	0.005	0.030	0.028	0.032	0.011
8/02/2016	0.039	0.597	1.001	0.094	1.309	0.120	0.267	0.077	0.014	0.104	0.035	0.034	0.050	0.044	0.006	0.013	0.006	0.031	0.011
9/05/2016	0.060	0.255	3.625	0.139	3.271	0.079	0.132	0.078	0.070	0.045	0.025	0.030	0.027		0.017	0.027	0.013	0.070	0.009
9/08/2016																			
7/11/2016																			
7/02/2017																			
8/05/2017	0.116	0.210	4.855	0.097	2.216	0.083	0.146	0.021		0.055	0.042	0.026	0.038	0.047	0.008	0.033	0.017	0.036	0.018
8/08/2017																			
7/11/2017																			
14/02/2018																			
9/05/2018	0.046		0.231		0.677	0.043	0.068	0.051		0.044	0.024	0.016	0.017	0.029	0.043	0.044	0.008	0.024	0.015
15/08/2018																			
14/11/2018																			
13/02/2019																			
15/05/2019	0.131		1.490	0.343	1.860	0.104	0.156	0.060	0.068	0.114		0.026	0.034	0.038	0.090	0.016	0.009	0.046	0.007
14/08/2019																			
13/11/2019																			
25/02/2020																			
12/05/2020	0.036		1.480	0.087	0.361	0.130	0.108	0.072	0.056	0.067	0.023	0.026	0.025	0.097	0.012	0.021	0.020	0.016	0.005
11/08/2020																			
10/11/2020																			
10/02/2021																			
12/05/2021	0.4		0.1	0.4	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
11/08/2021																			
9/11/2021																			

Zn	SW1	SW2	SW4
31/01/2011	0.010	0.010	
10/05/2011	0.010	0.010	0.010
9/08/2011	0.120	0.010	0.010
8/11/2011	0.340	0.030	0.030
6/02/2012	0.080	0.020	0.010
8/05/2012	0.040	0.010	0.010
6/08/2012	0.010	0.010	0.010
13/11/2012	0.020	0.030	0.020
13/02/2013	0.020	0.020	0.020
14/05/2013	0.010	0.010	0.010
6/08/2013	0.010	0.020	0.010
12/11/2013		0.050	0.070
11/02/2014		0.050	
13/05/2014	0.020	0.010	0.020
12/08/2014		0.030	
10/11/2014		0.030	
9/02/2015	0.050	0.010	0.010
11/05/2015	0.030	0.039	0.048
11/08/2015	0.008	0.010	0.031
10/11/2015	0.006	0.006	0.009
8/02/2016	0.015	0.005	0.005
9/05/2016	0.005	0.005	0.005
9/08/2016			
7/11/2016			
7/02/2017			
8/05/2017	0.005	0.006	0.006
8/08/2017			
7/11/2017			
14/02/2018			
9/05/2018	0.005	0.006	0.005
15/08/2018			
14/11/2018			
10/02/2019			
15/05/2019	0.005	0.005	0.005
14/08/2019			
12/11/2019			
25/02/2020			
12/05/2020	0.005	0.005	0.005
11/08/2020			
10/11/2020			
10/02/2021			
12/05/2021	0.01	0.01	0.01
11/08/2021			
9/11/2021			

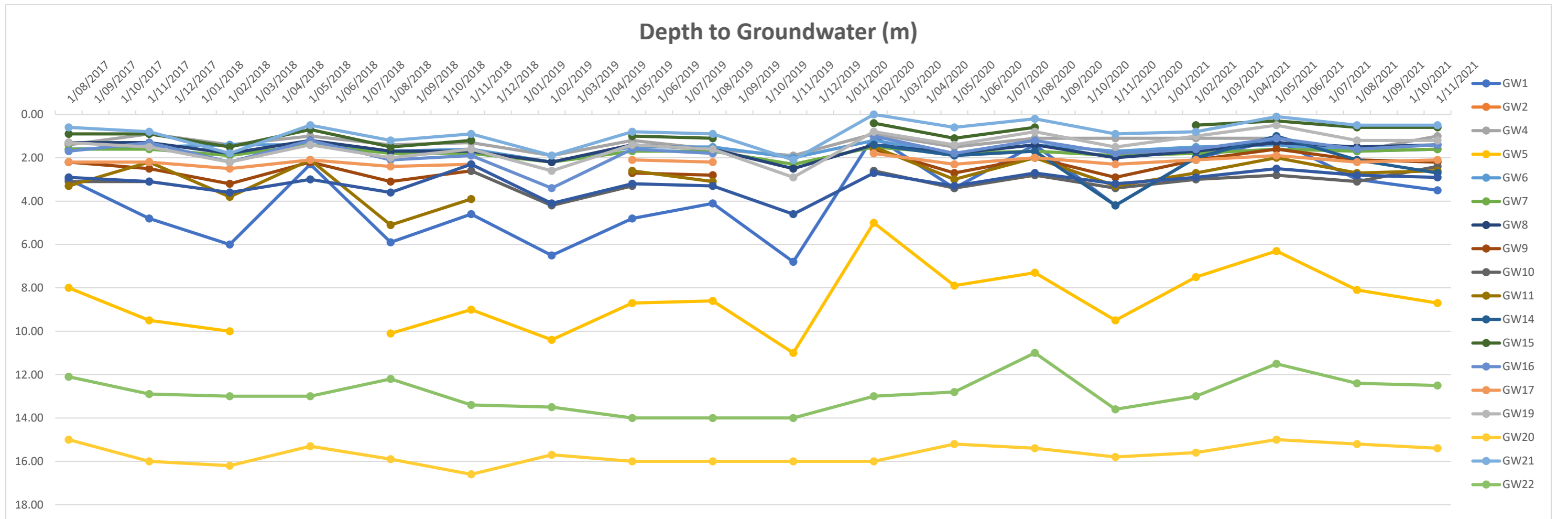
Total Zinc (mg/L)



Total Zinc (mg/L)



Depth to Groundwater	GW1	GW2	GW4	GW5	GW6	GW7	GW8	GW9	GW10	GW11	GW14	GW15	GW16	GW17	GW19	GW20	GW21	GW22	GW23
8/08/2017	3.00	1.40	1.40	8.00	1.60	1.60	1.30	2.20	3.10	3.30		0.90	1.70	2.20	1.30	15.00	0.60	12.10	2.90
7/11/2017	4.80		0.90	9.50	1.50	1.60	1.30	2.50	3.10	2.20		0.90	1.30	2.20	1.50	16.00	0.80	12.90	3.10
14/02/2018	6.00		1.40	10.00	1.40	1.90	1.80	3.20		3.80		1.50	2.20	2.50	2.20	16.20	1.80	13.00	3.60
9/05/2018	2.30		1.00		1.40	1.40	1.20	2.20		2.10		0.70	1.20	2.10	1.40	15.30	0.50	13.00	3.00
15/08/2018	5.90		1.40	10.10	1.70	1.80	1.70	3.10		5.10		1.50	2.10	2.40	2.00	15.90	1.20	12.20	3.60
14/11/2018	4.60		1.30	9.00	1.60	1.80	1.70	2.60	2.60	3.90		1.20	1.90	2.30	1.60	16.60	0.90	13.40	2.30
13/02/2019	6.50		1.90	10.40	2.20	2.20	2.20		4.20				3.40		2.60	15.70	1.90	13.50	4.10
15/05/2019	4.80		1.20	8.70	1.50	1.70	1.40	2.70	3.30	2.60		1.00	1.60	2.10	1.40	16.00	0.80	14.00	3.20
14/08/2019	4.10		1.60	8.60	1.50	1.70	1.60	2.80		3.10		1.10	1.80	2.20	1.60	16.00	0.90	14.00	3.30
13/11/2019	6.80		1.90	11.00	2.00	2.30	2.50								2.90	16.00	2.10	14.00	4.60
25/02/2020	1.00		0.90	5.00	1.20	1.50	1.40	1.60	2.60	1.50	1.40	0.40	1.00	1.80	0.80	16.00	<0.1	13.00	2.70
12/05/2020	3.40		1.50	7.90	1.80	1.80	1.80	2.70	3.40	3.00	1.90	1.10	1.80	2.30	1.40	15.20	0.60	12.80	3.30
11/08/2020	1.40		1.10	7.30	1.40	1.70	1.40	2.00	2.80	2.00	1.70	0.60	1.20	2.00	0.80	15.40	0.20	11.00	2.70
10/11/2020	4.20		1.10	9.50	1.70	1.90	2.00	2.90	3.40	3.30	4.20		1.80	2.30	1.50	15.80	0.90	13.60	3.20
10/02/2021	2.0		1.1	7.5	1.5	1.8	1.7	2.1	3.0	2.7	2.0	0.5	1.6	2.1	1.0	15.6	0.8	13.0	2.9
12/05/2021	1.2		1.1	6.3	1.4	1.6	1.3	1.6	2.8	2.0	1.0	0.3	1.1	1.9	0.5	15.0	0.1	11.5	2.5
11/08/2021	3.0		1.7	8.1	1.7	1.7	1.5	2.1	3.1	2.7	2.1	0.6	1.6	2.2	1.2	15.2	0.5	12.4	2.8
9/11/2021	3.5		1.0	8.7	1.6	1.6	1.4	2.2	2.4	2.6	2.7	0.6	1.4	2.1	1.2	15.4	0.5	12.5	2.9



Appendix E – 2022 Meteorological Data

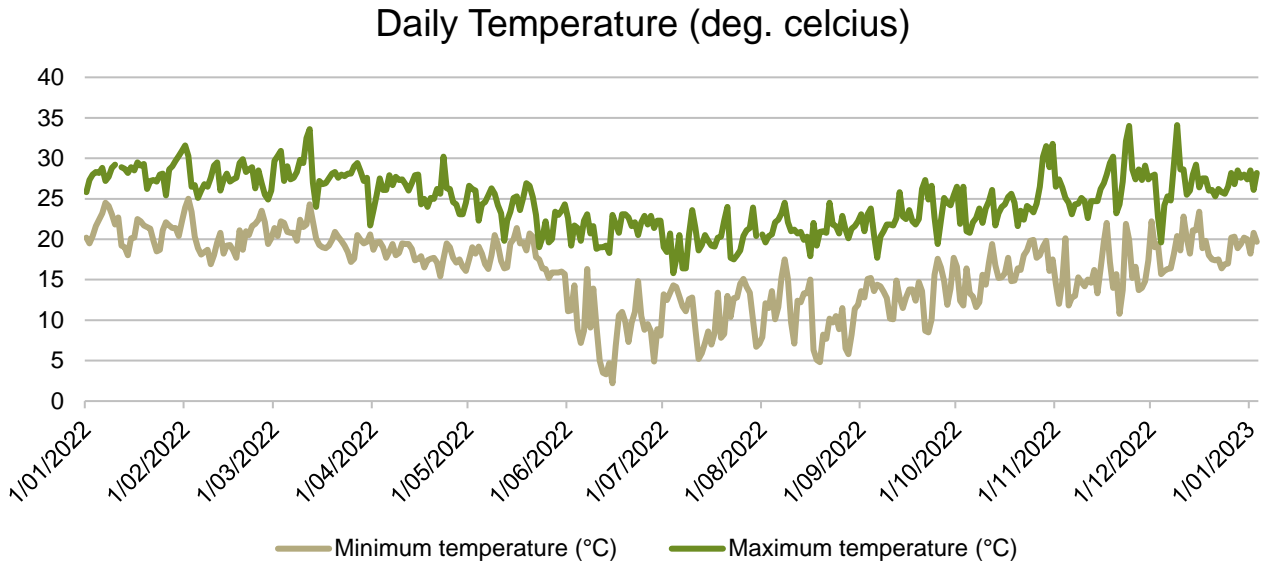


Figure B.1 – Eviron daily maximum and minimum air temperatures from January 2022 to December 2022.

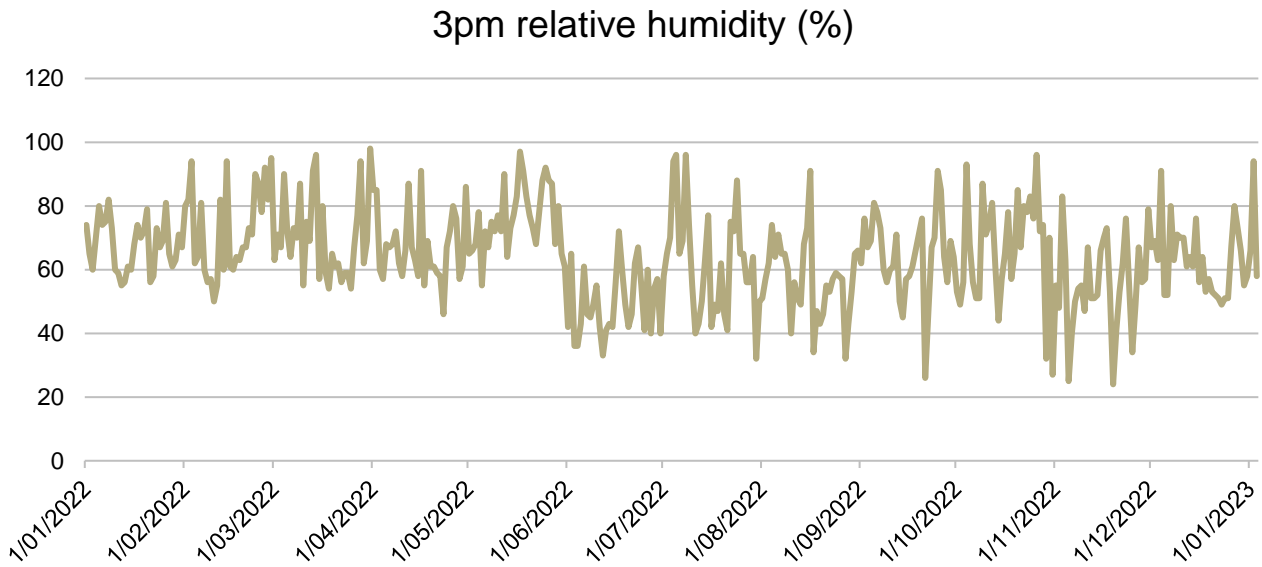


Figure B.2 – Eviron average humidity readings from January 2022 to December 2022.

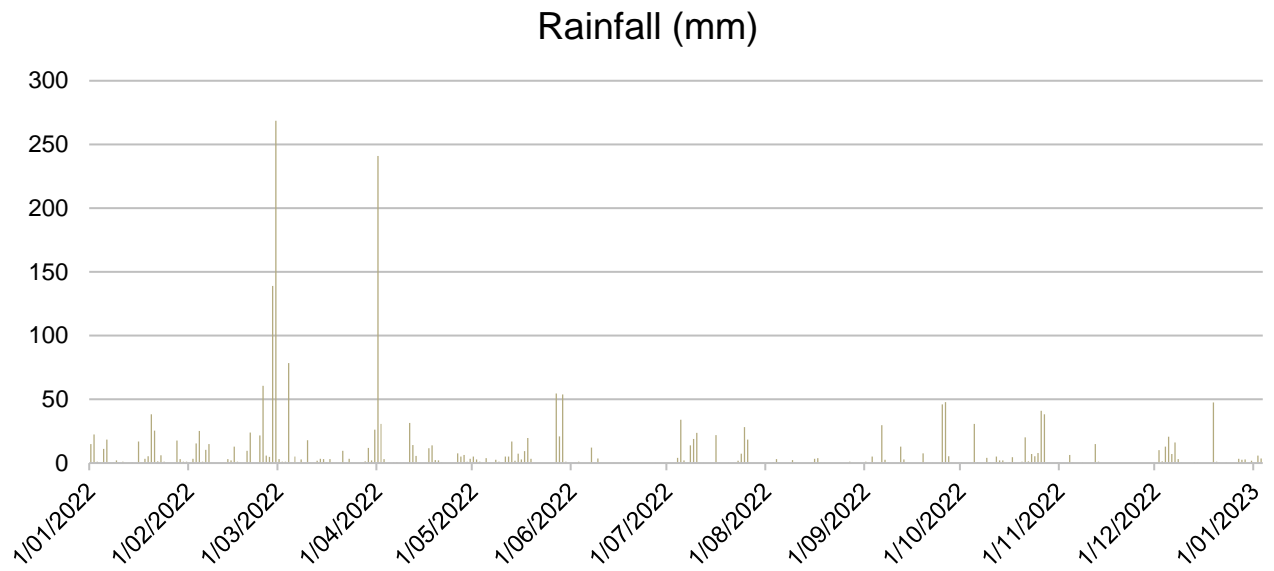


Figure B.3 – Eviron daily rainfall totals from January 2022 to December 2022.



TWEED

SHIRE COUNCIL

Customer Service | 1300 292 872 | (02) 6670 2400

tsc@tweed.nsw.gov.au
www.tweed.nsw.gov.au
Fax: (02) 6670 2429
PO Box 816
Murwillumbah NSW 2484