

	Q3 Landfill Groundwater Sampling Results 2025 Dow Silicones UK Ltd Barry	Quarter 3 2025
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Q3-2025 Landfill Groundwater Sampling Results

The impact of bulk storage of materials on the landfill and its performance was monitored in quarter 3 of 2025 and the results shown in this report.

The quarterly sampling plan satisfies both SPMP (Site Protection and Monitoring Programme) and Landfill licence requirements (ref URS design of a site monitoring programme, 44382681, July 2006 and Dow Silicones UK landfill CMS review, 49310733, October 2008).

This report provides sample results for boreholes and surface water bodies. They have been assessed for copper and Trimethylsilanol (TMS) concentrations.

- The boreholes ~~LF1, LF4, LF6~~, LF7, ~~E1s, E1m, E1d, E2s, E2d, E4s, E4d~~, 210, 312, 412, A2d, LF10S, ~~LF10M~~, LF10D, ~~LF11S~~, LF11M, LF11D, LF12S, LF12D, ~~LF13S, LF13M, LF13D~~, ~~LF14S~~, LF14M, LF14D, CP1S, CP1M, CP1D, CP2S, CP2M, CP2D
- The surface water bodies are Cadoxton pond (North), Cadoxton pond (South), Freshwater pond, Cadoxton River SW2, Cadoxton River SW3, the Timber Pond and the new Wetland pond.

The graphs illustrated have been prepared from borehole and surface water samples taken for Q3-2007 up till Q3-2025

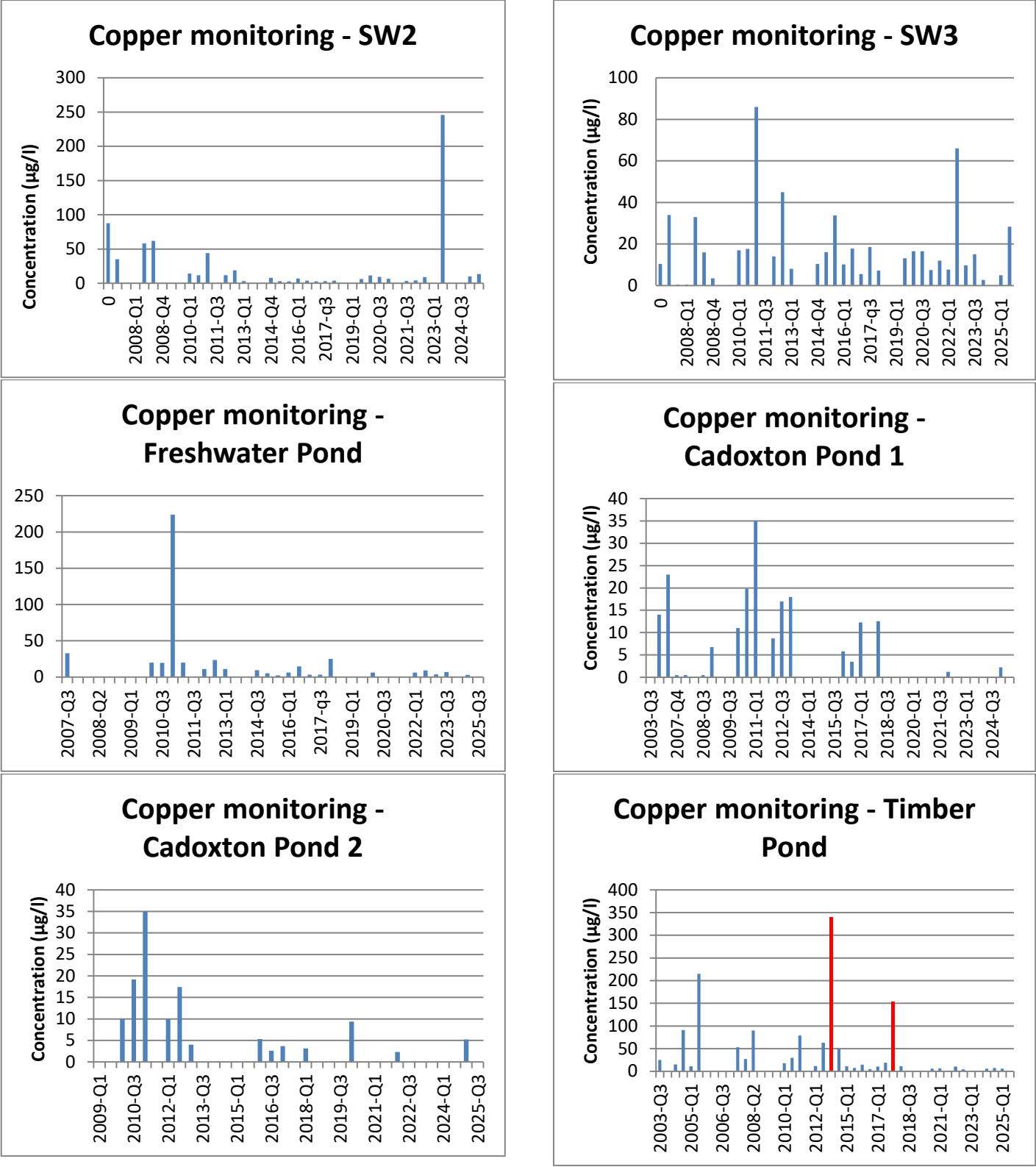
The following boreholes were lost and are no longer sampled – but the historical data is still in this report for reference. Alternative boreholes were added in 2016 & 2018 to provide additional data because of the unavailability of these ones: E1s, E1m, E1d, E2S, E2D, E4S, E4D, LF1, LF4, LF6, LF13S, LF13M, LF13D.

Some of the boreholes were not sampled during Q3 2025 due to being inaccessible or due to being unable to draw enough sample. These were LF10M, LF11S, LF12S, LF12D, LF14S, CP1S, and CP1M. These boreholes show no results on the charts. The river level/flow was also very low so may have affected SW2 and SW3.

Leachate graphs.

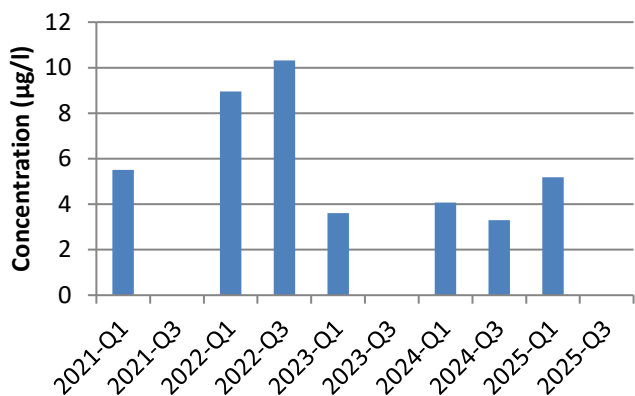
Copper

The detectable limit for Copper is 0.5 µg/l – any results below this will show on the graphs as 0

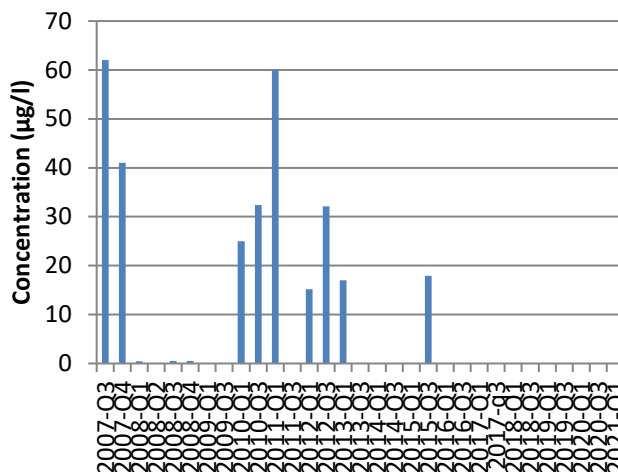




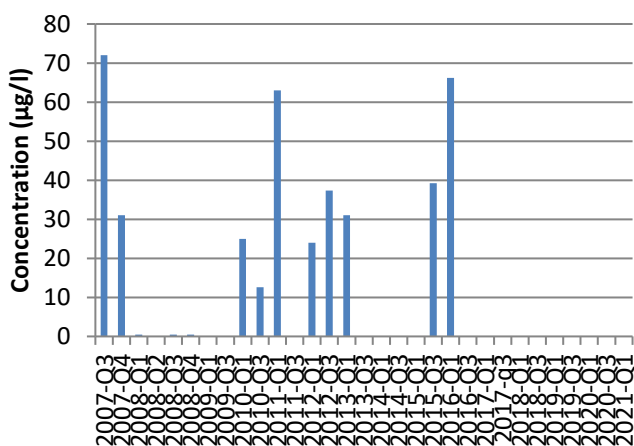
Copper monitoring - Wetland Pond



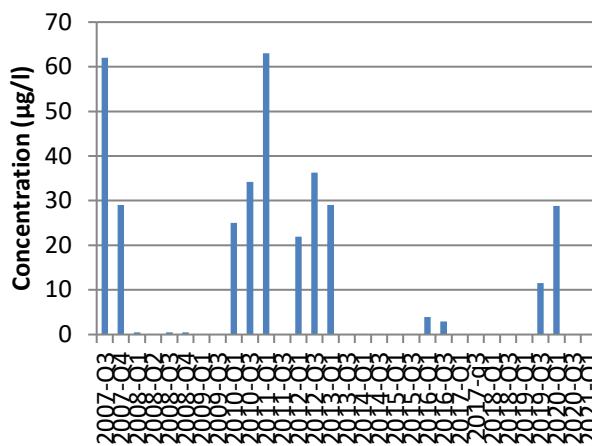
Copper monitoring - E1S



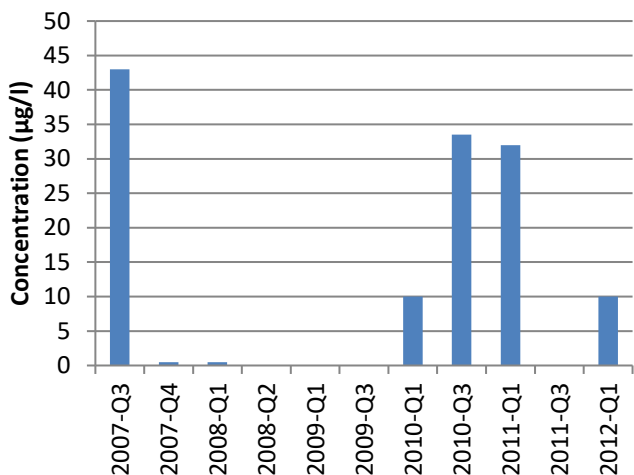
Copper monitoring - E1M



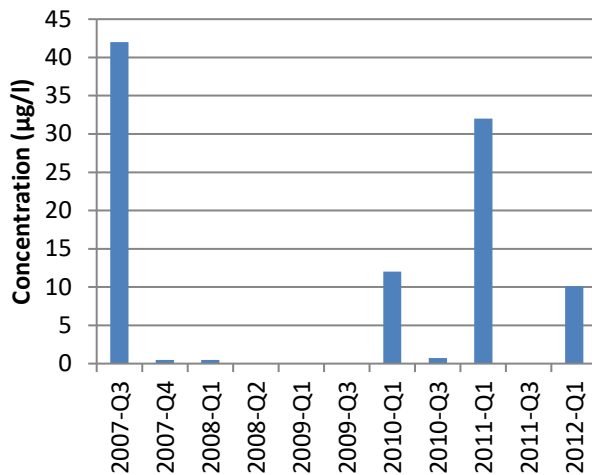
Copper monitoring - E1D



Copper monitoring - E2S



Copper monitoring - E2D

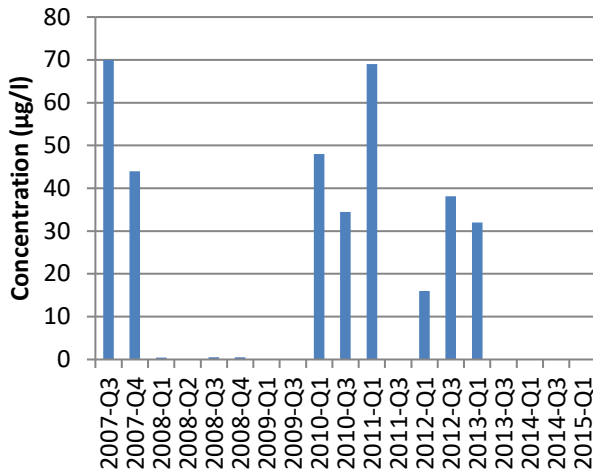




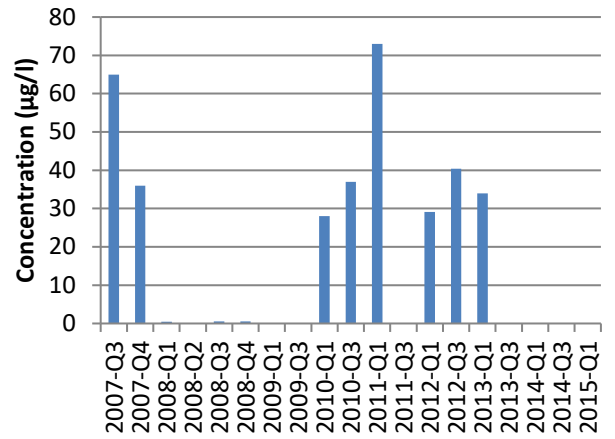
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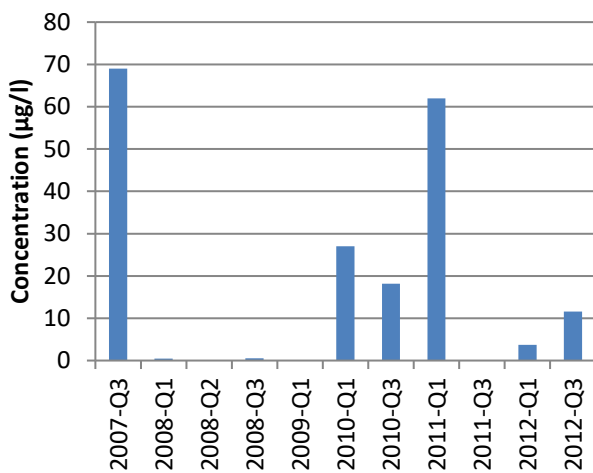
Copper monitoring - E4S



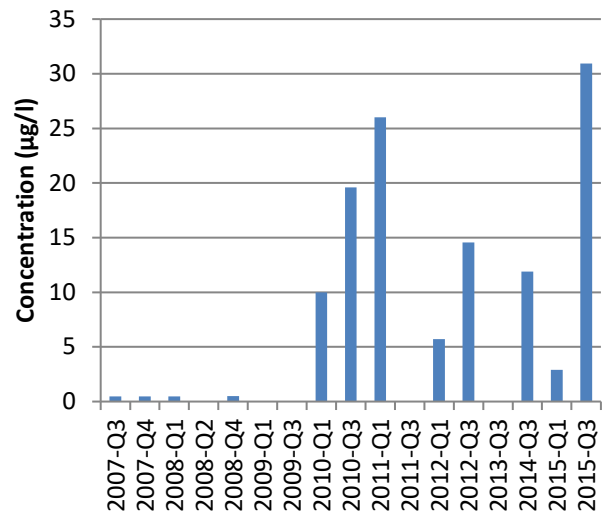
Copper monitoring - E4D



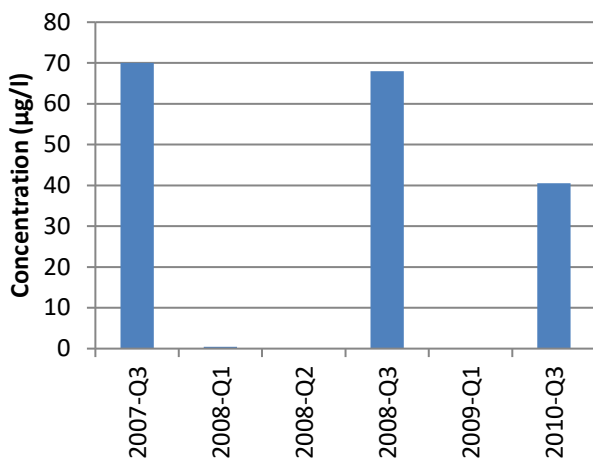
Copper monitoring - LF1



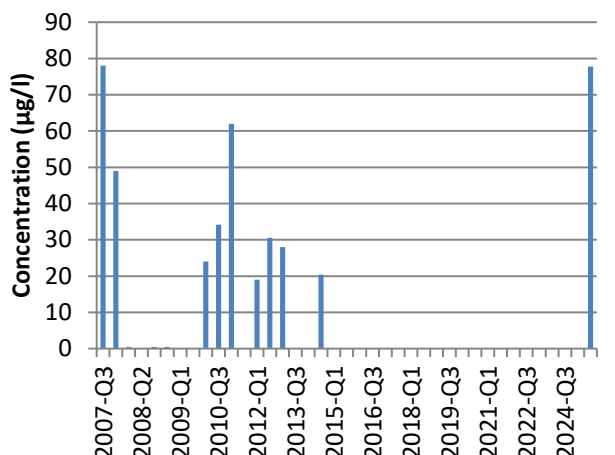
Copper monitoring - LF4



Copper monitoring - LF6



Copper monitoring - LF7

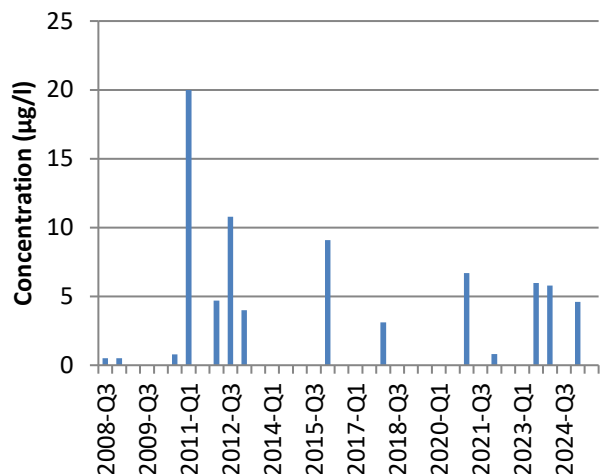




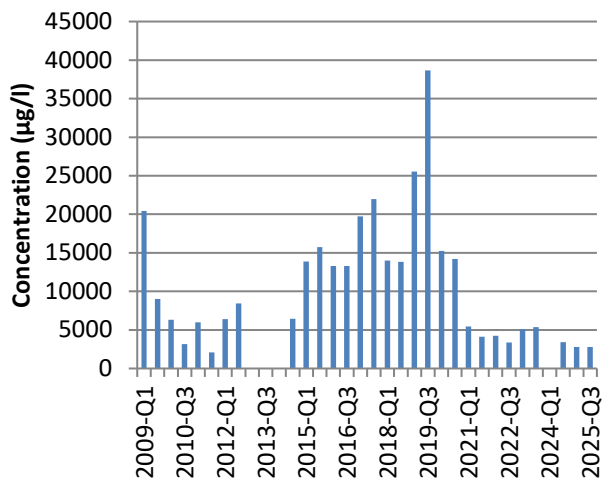
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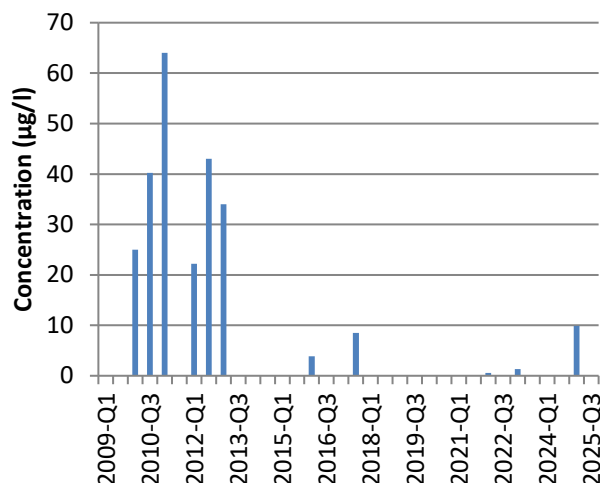
Copper monitoring - BH 210



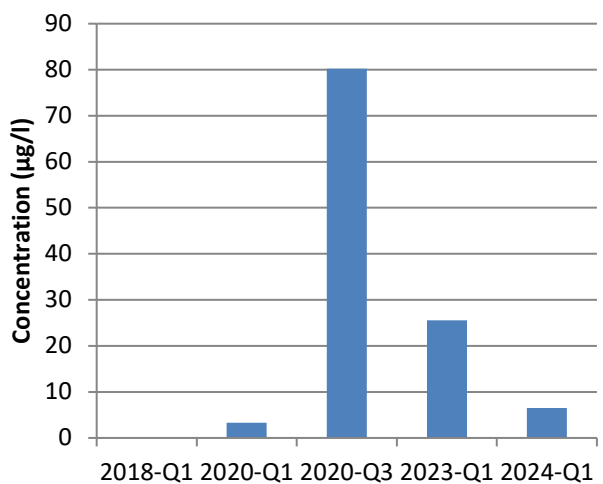
Copper monitoring - A2D



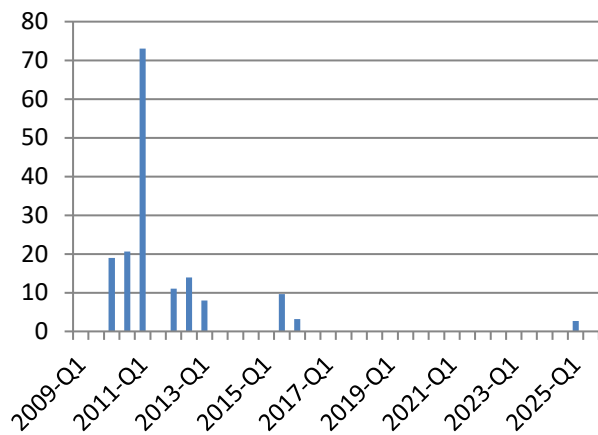
Copper monitoring - BH 412



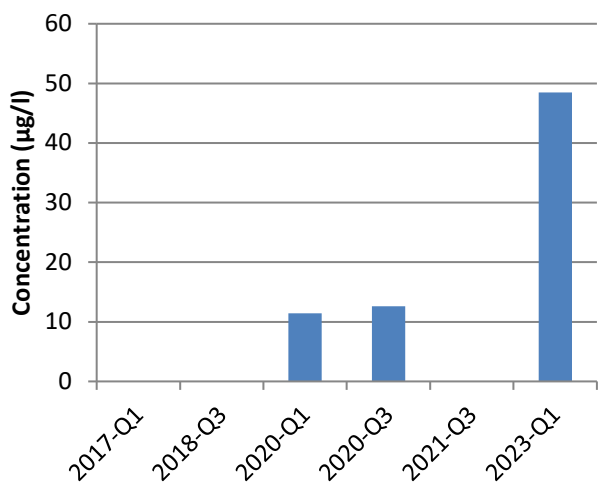
Copper monitoring - CP1S



Copper monitoring - BH 312

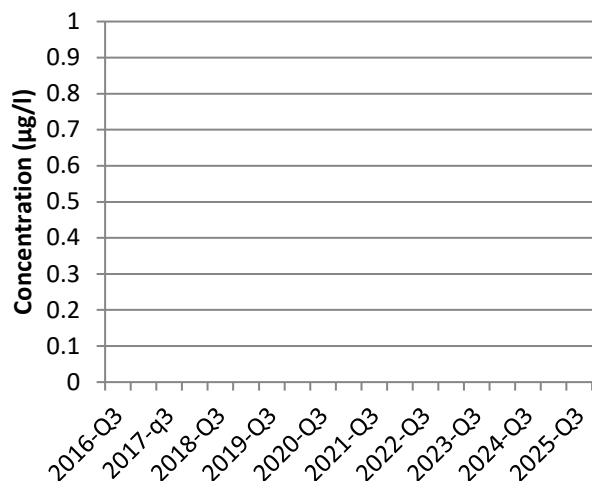


Copper monitoring - CP1M

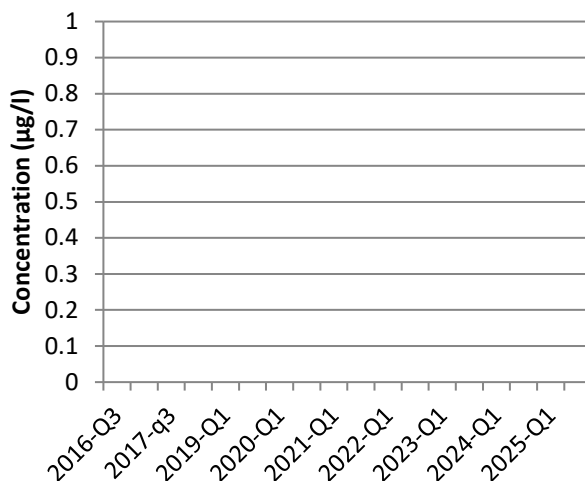




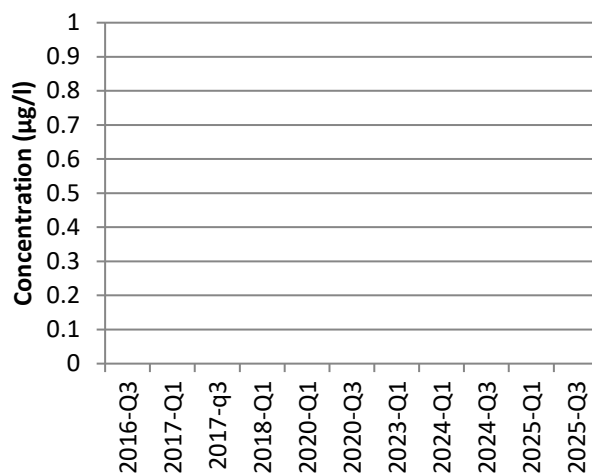
Copper monitoring - CP1D



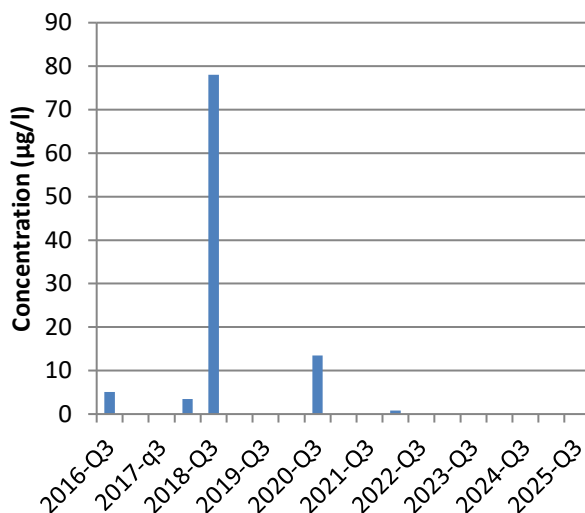
Copper monitoring - CP2D



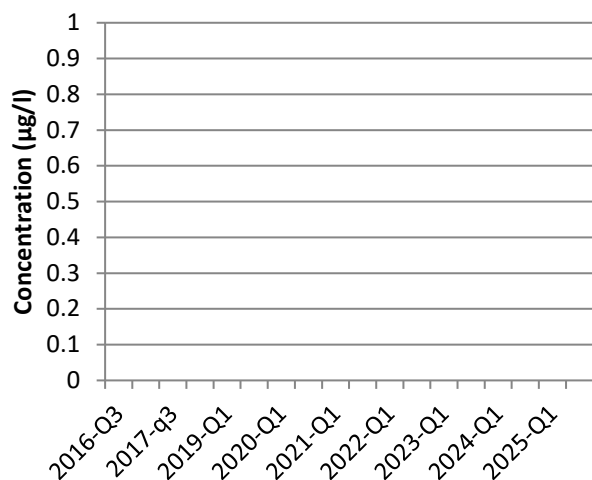
Copper monitoring - CP2S



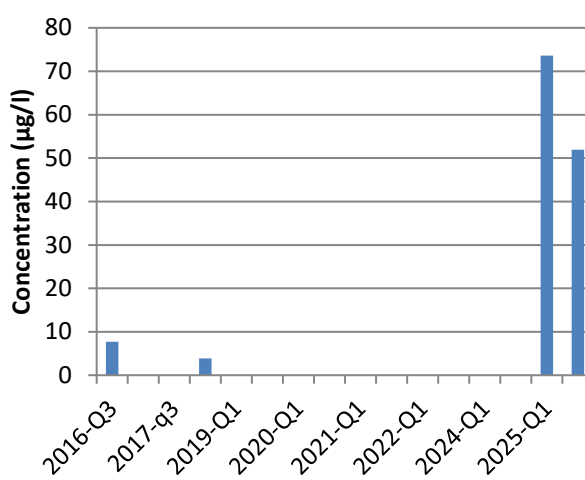
Copper monitoring - LF10S



Copper monitoring - CP2M

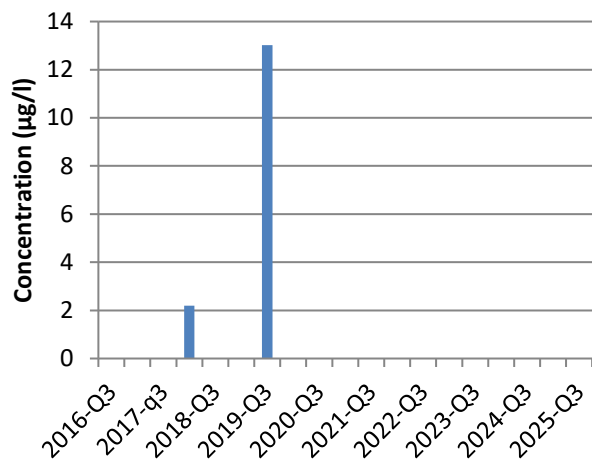


Copper monitoring - LF10M

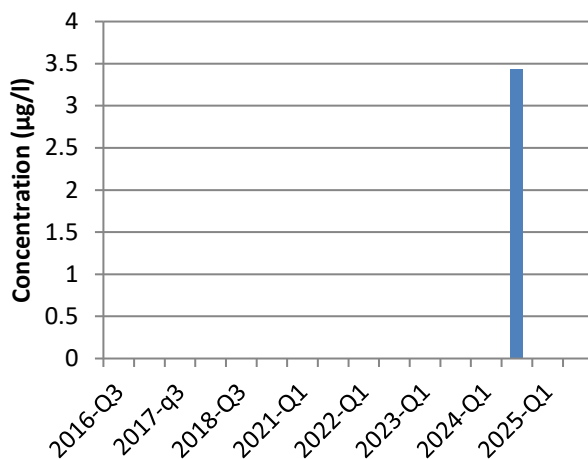




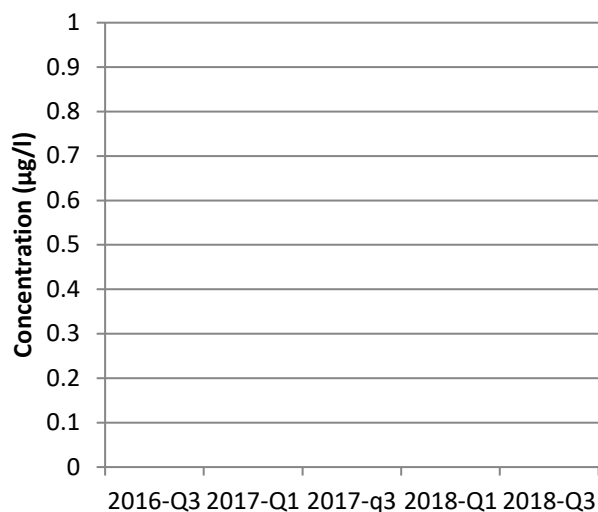
Copper monitoring - LF10D



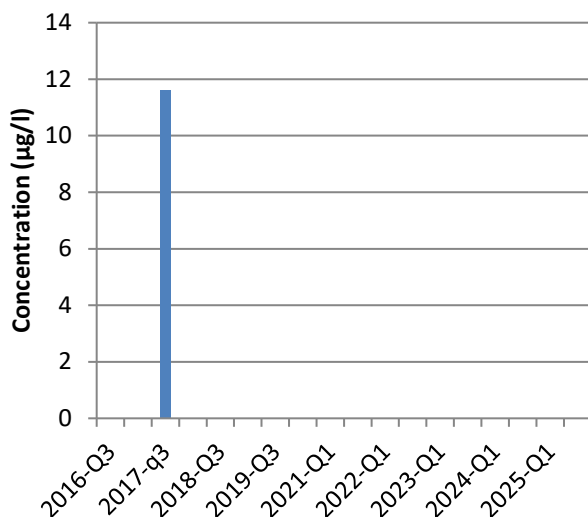
Copper monitoring - LF11D



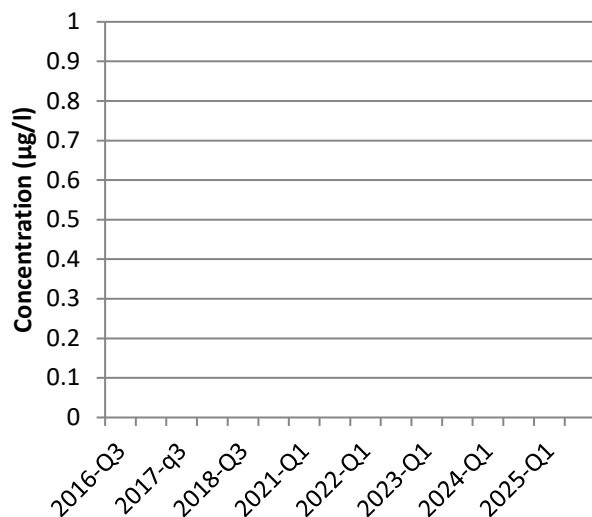
Copper monitoring - LF11S



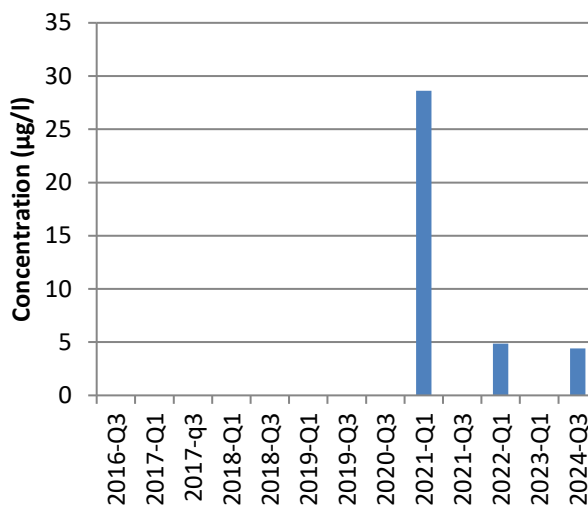
Copper monitoring - LF12M



Copper monitoring - LF11M

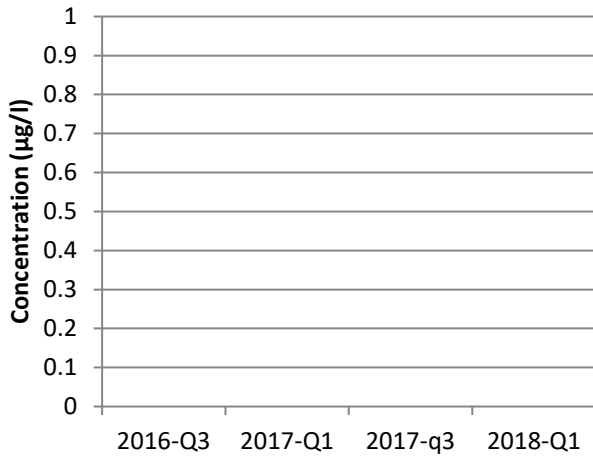


Copper monitoring - LF12D

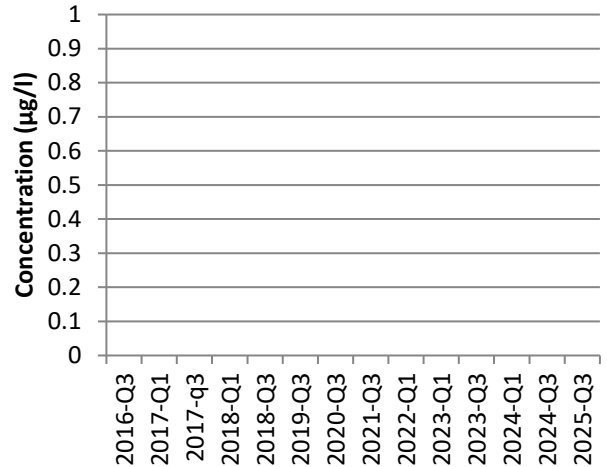




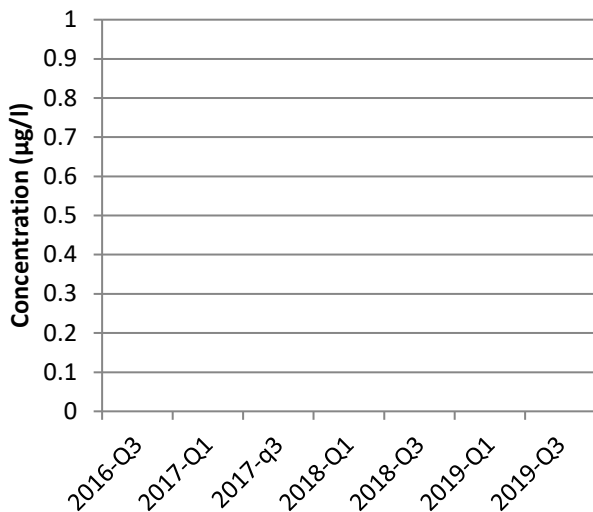
Copper monitoring - LF13S



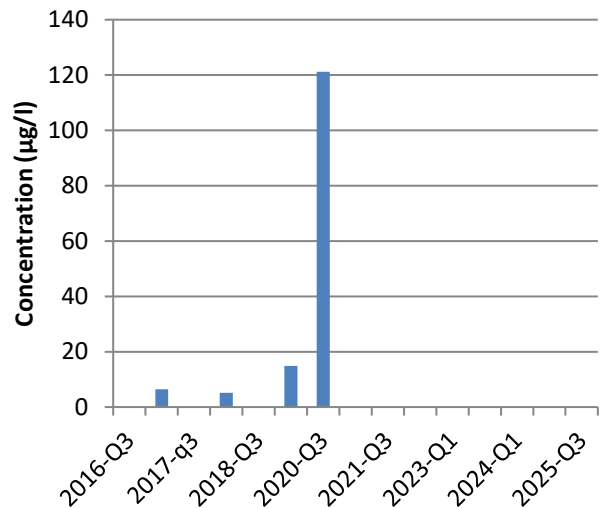
Copper monitoring - LF14S



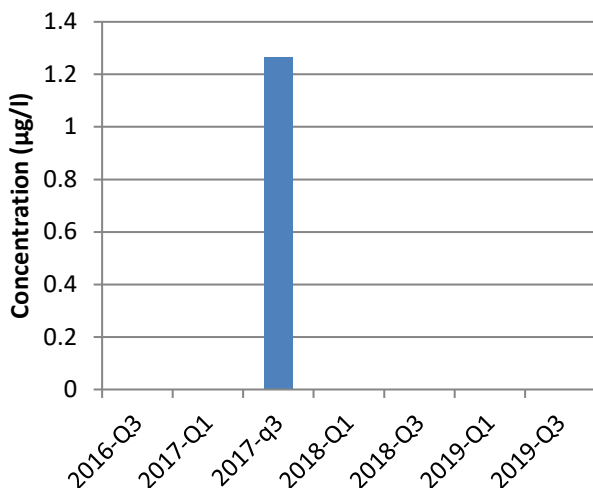
Copper monitoring - LF13M



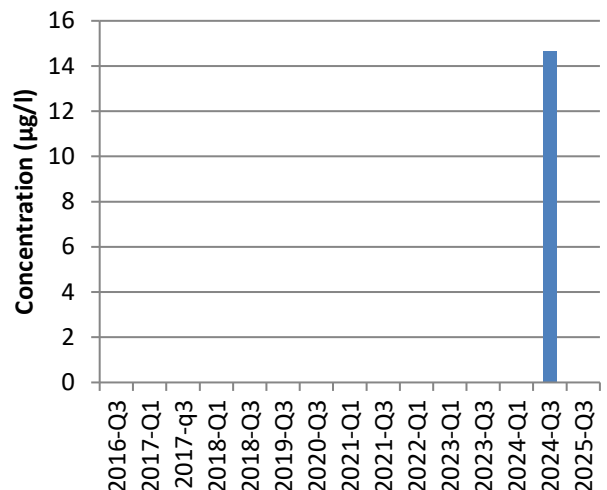
Copper monitoring - LF14M



Copper monitoring - LF13D



Copper monitoring - LF14D



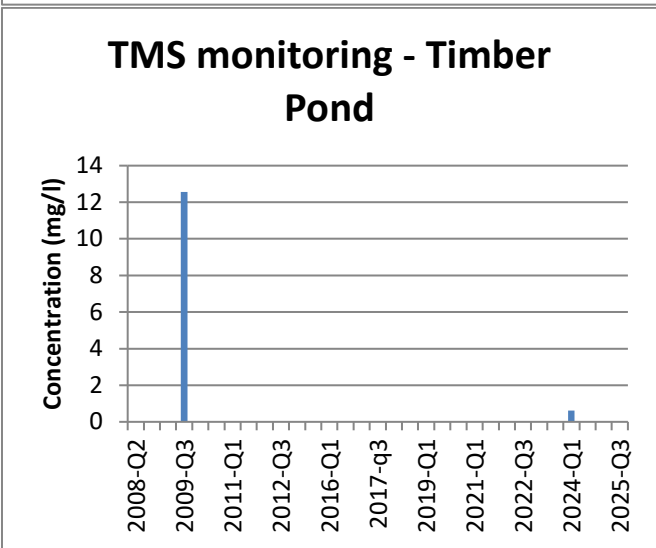
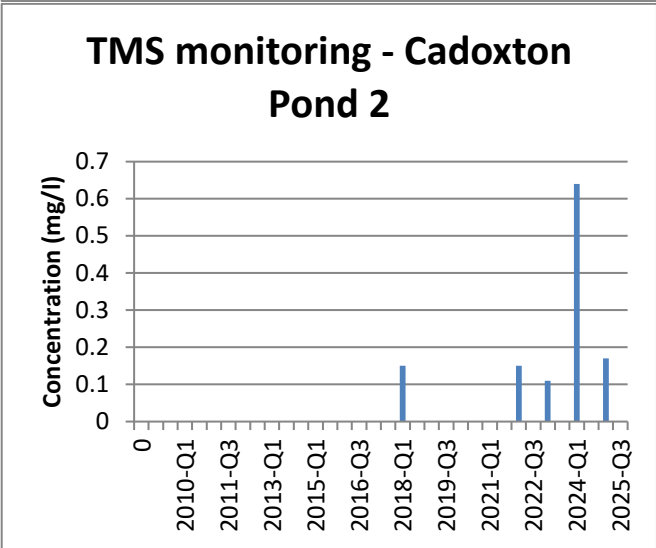
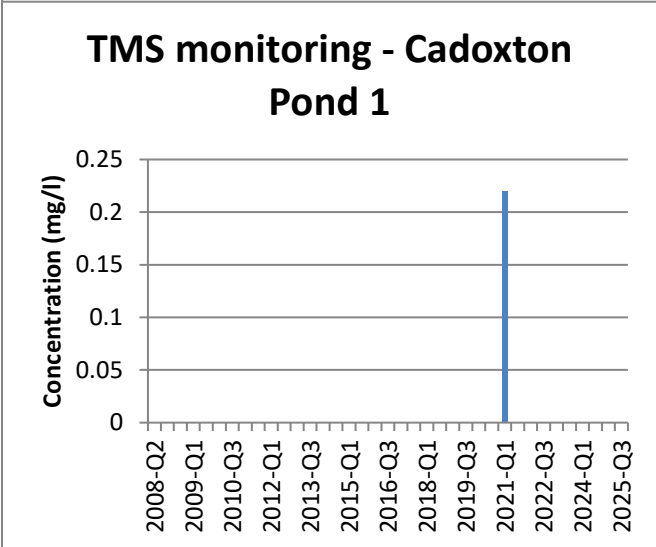
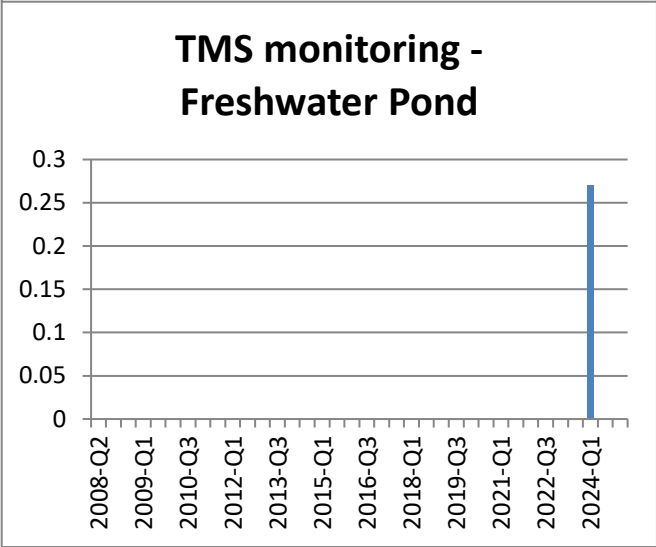
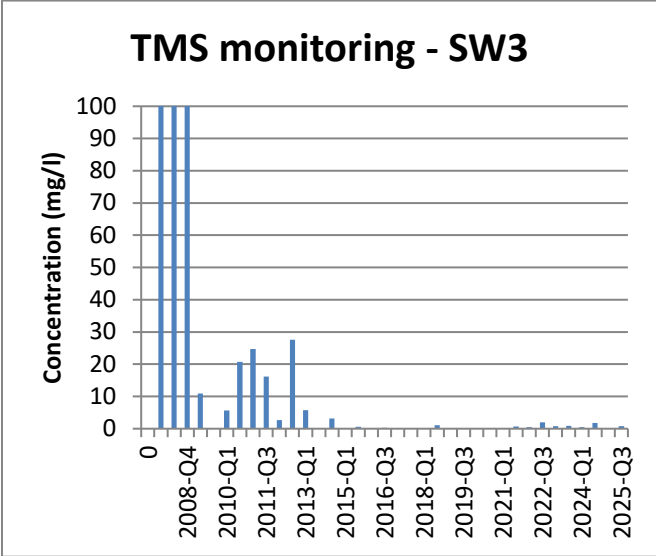
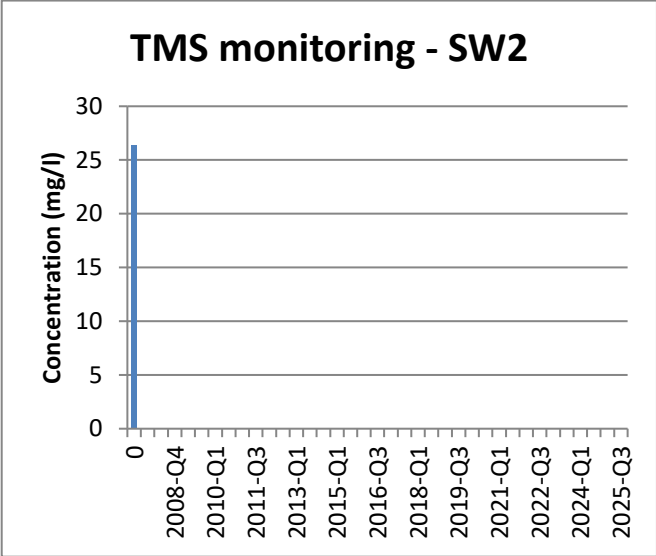
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Comments - Copper

1. LF7 showed a higher than normal level of Copper this quarter, however LF14S, LF14M and LF14D, which are in the very close vicinity do not show any copper and the new Wetland pond which is in the direct migration path also shows no copper. We will continue to monitor this borehole.
2. LF10M was resampled in Q2 and showed a lower copper value than Q1. Sampling during Q3 was not possible as not liquid could be pulled from the borehole. This leads us to believe that the borehole is heavily contaminated, so is unlikely to give a representative sample.

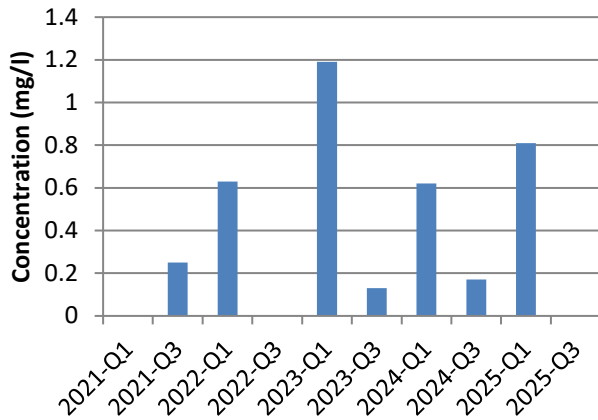
TMS

The detectable limit for Trimethylsilanol is 3 mg/l – any results below this will show on the graphs as 0

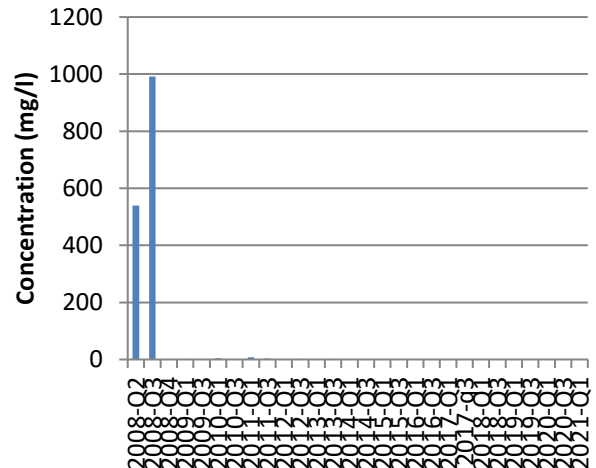




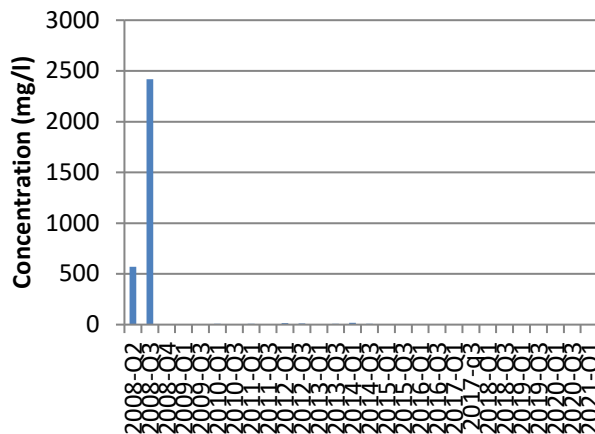
TMS monitoring - Wetland Pond



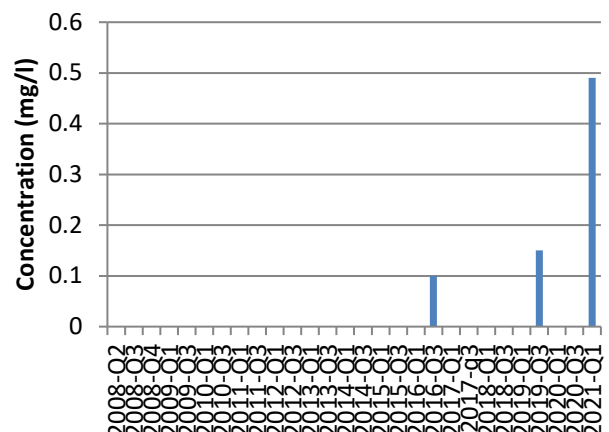
TMS monitoring - E1S



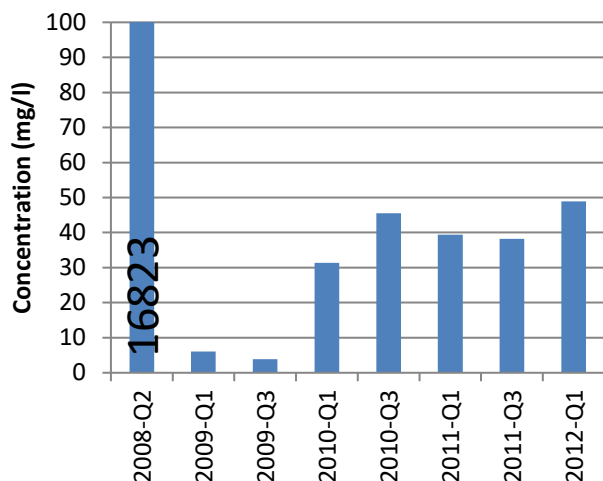
TMS monitoring - E1M



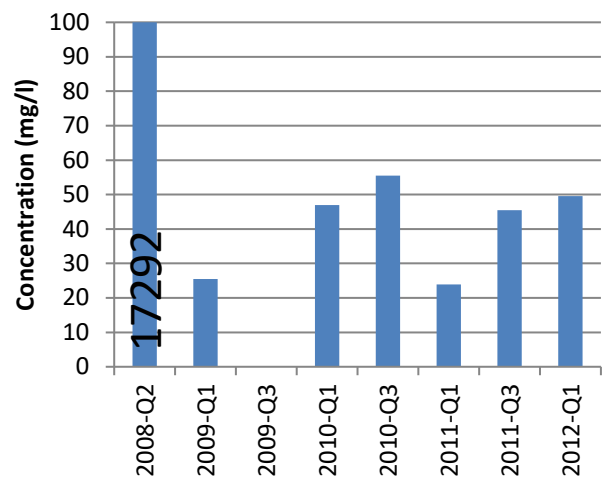
TMS monitoring - E1D



TMS monitoring - E2S



TMS monitoring - E2D

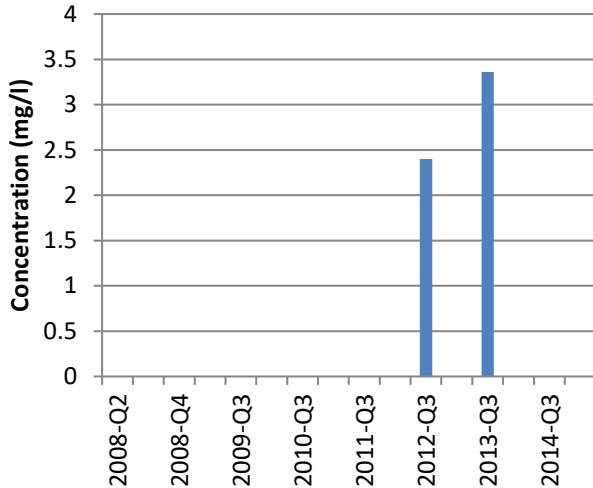




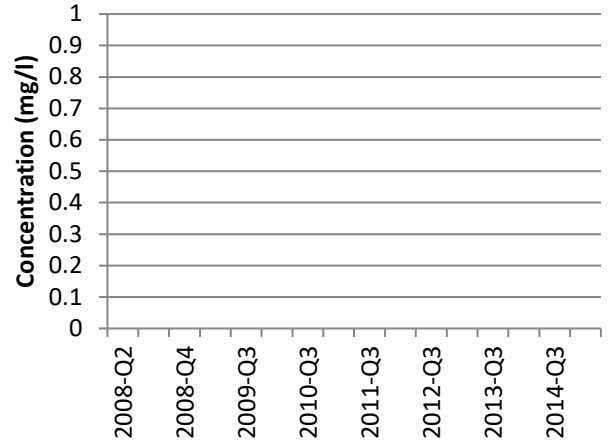
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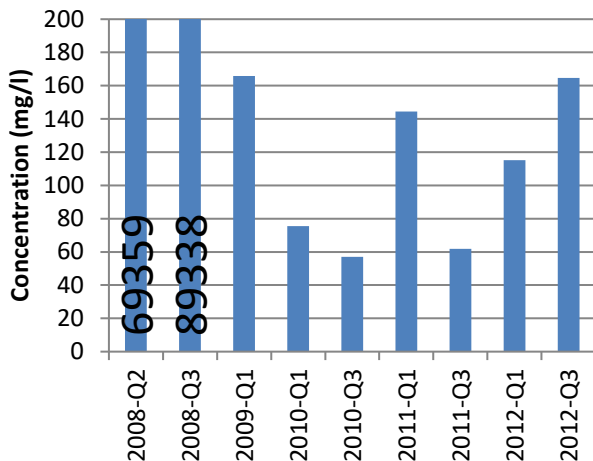
TMS monitoring - E4S



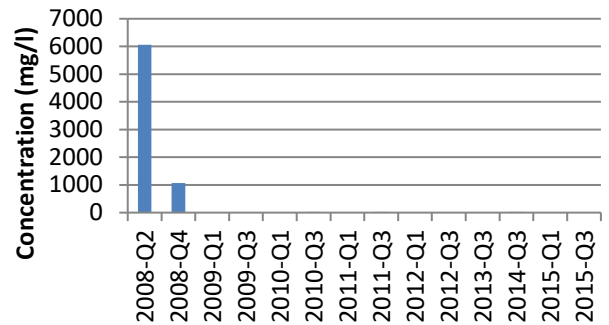
TMS monitoring - E4D



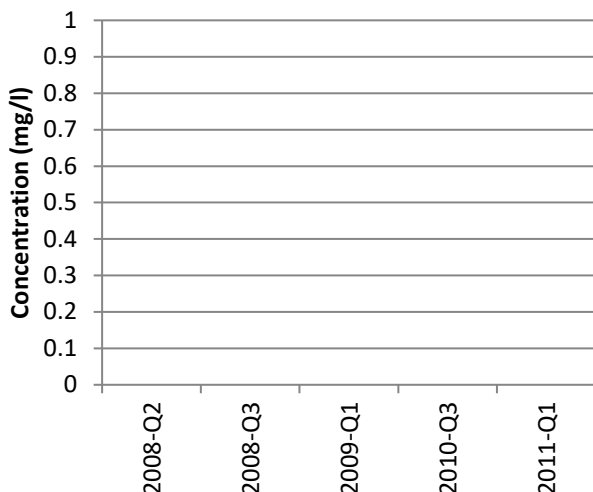
TMS monitoring - LF1



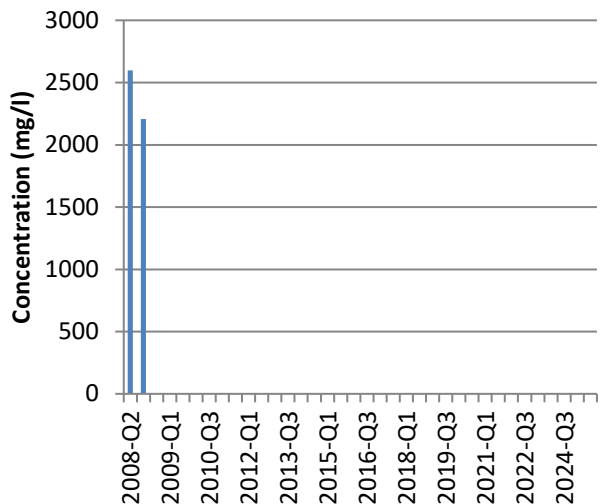
TMS monitoring - LF4



TMS monitoring - LF6



TMS monitoring - LF7

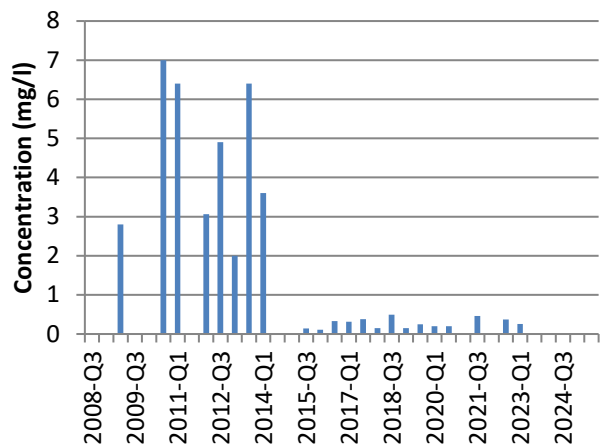




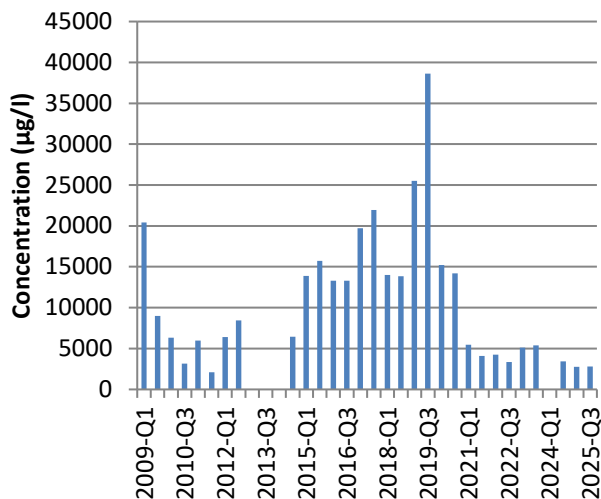
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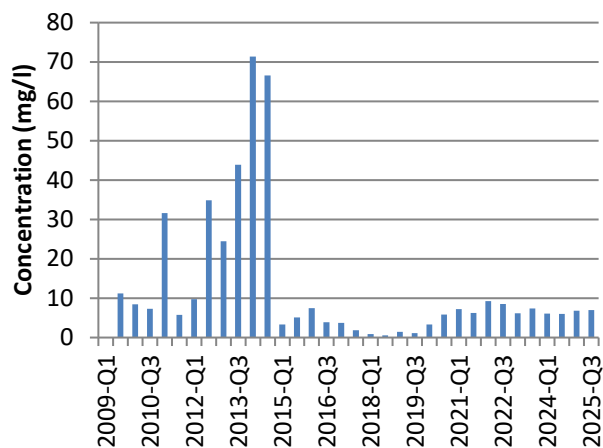
TMS monitoring - BH 210



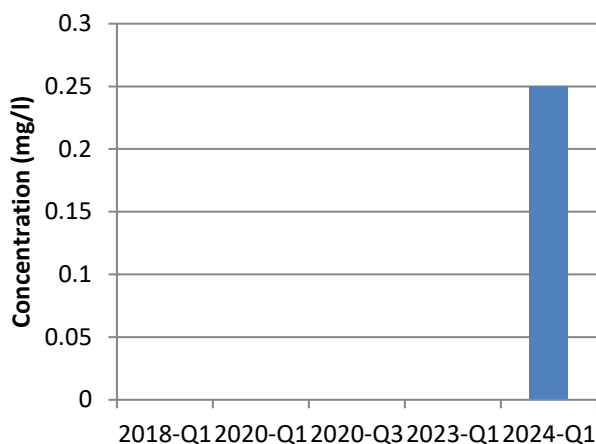
Copper monitoring - A2D



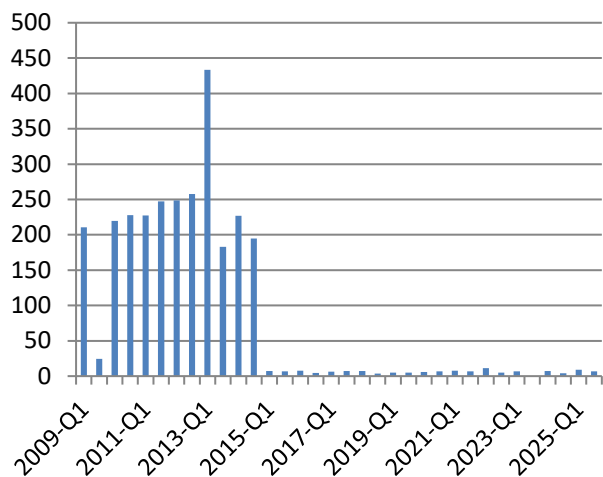
TMS monitoring - BH 412



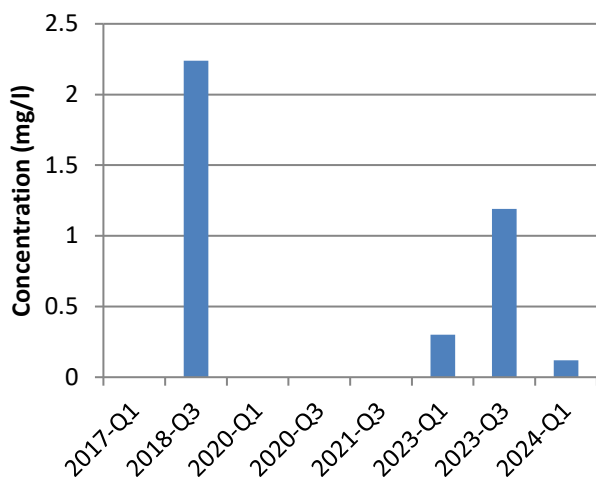
TMS monitoring - CP1S



TMS monitoring - BH 312



TMS monitoring - CP1M

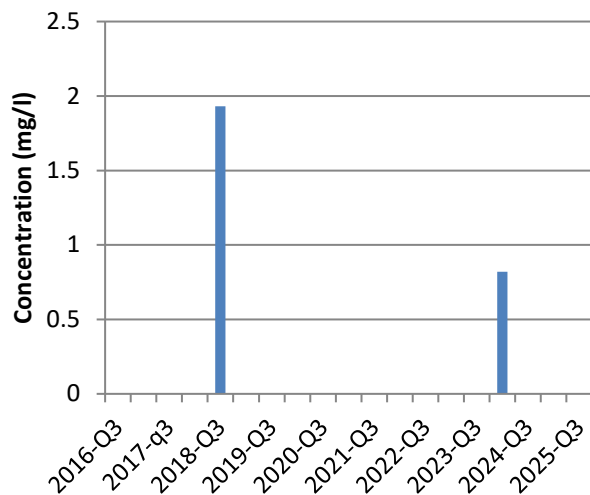




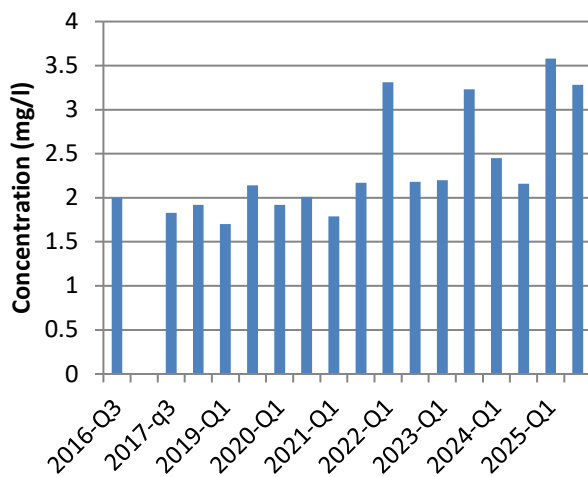
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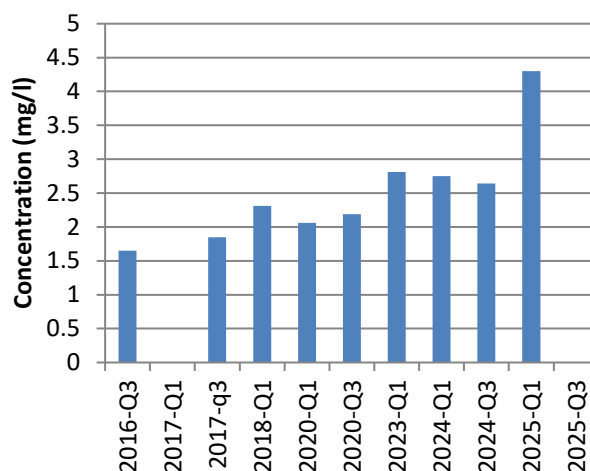
TMS monitoring - CP1D



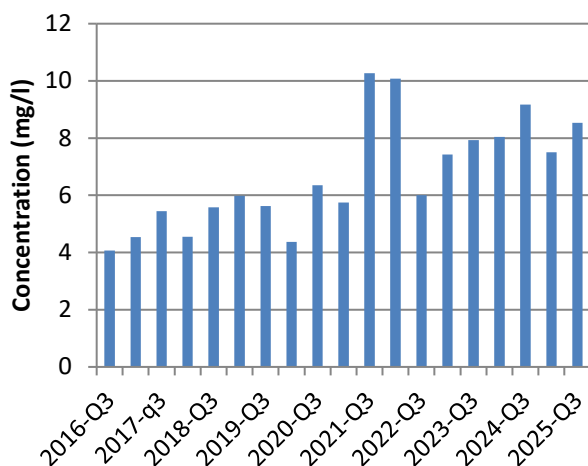
TMS monitoring - CP2D



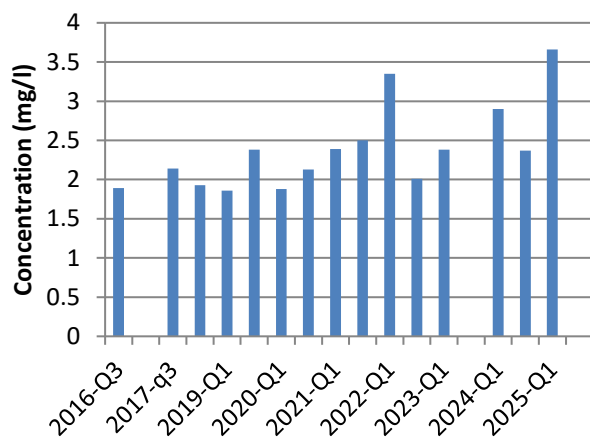
TMS monitoring - CP2S



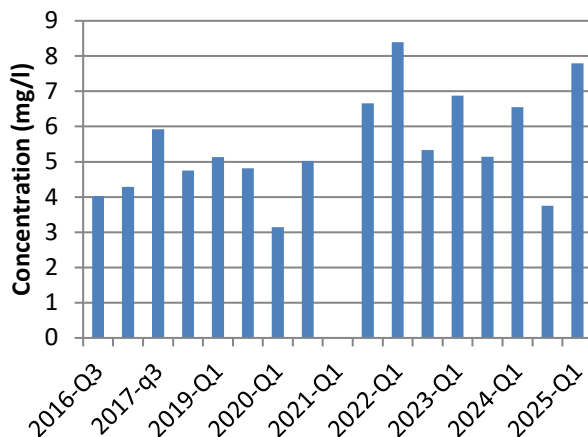
TMS monitoring - LF10S



TMS monitoring - CP2M



TMS monitoring - LF10M

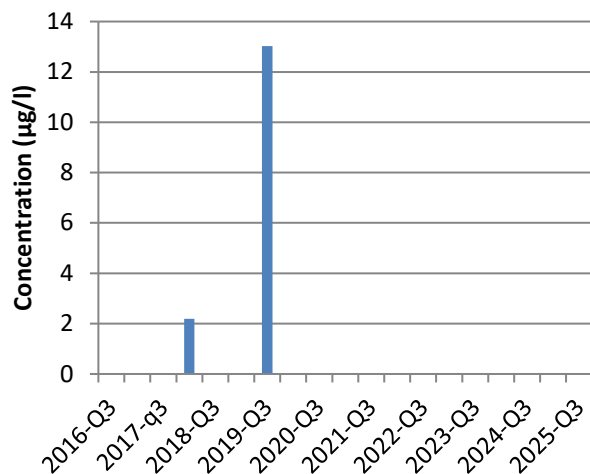




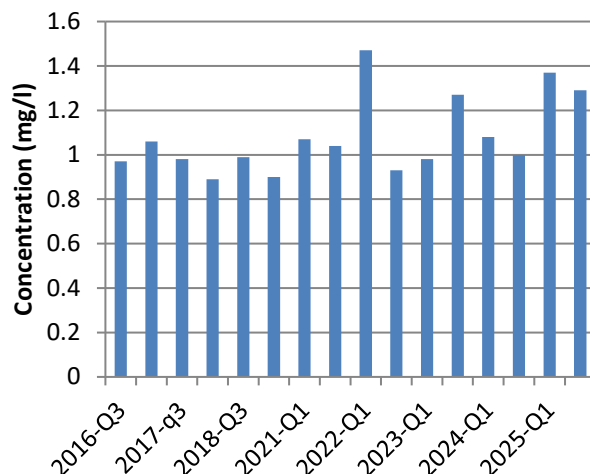
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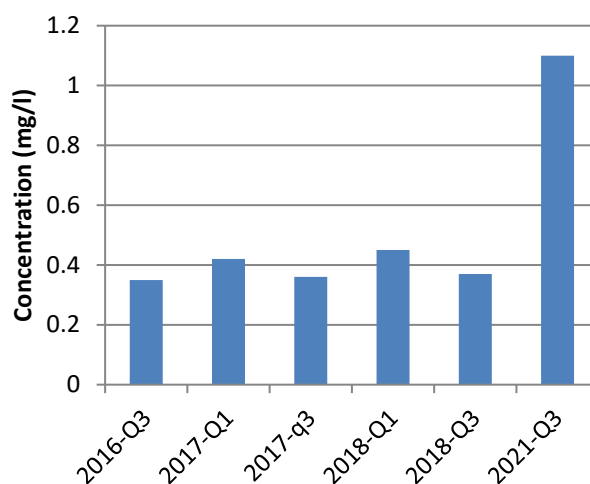
Copper monitoring - LF10D



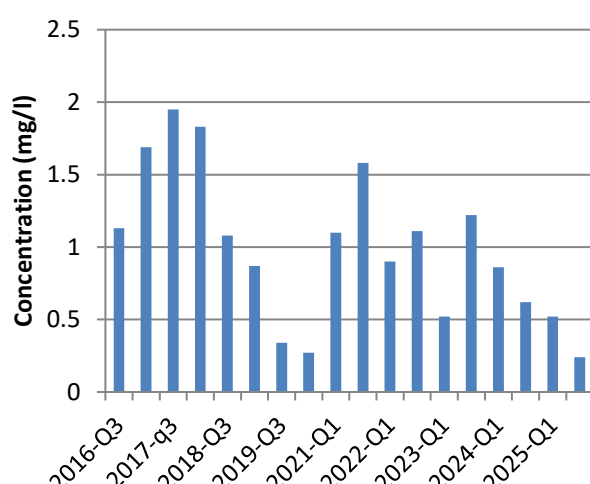
TMS monitoring - LF11D



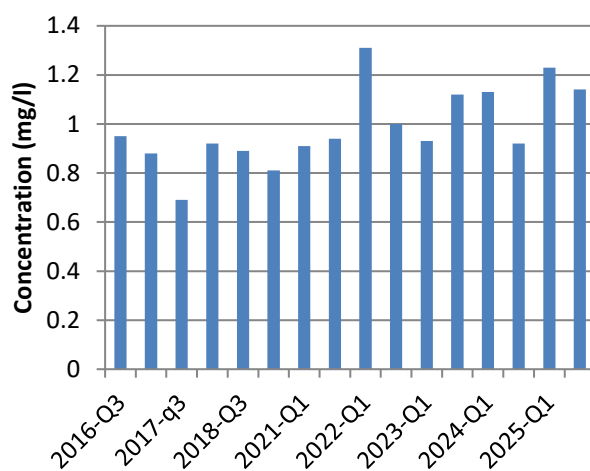
TMS monitoring - LF11S



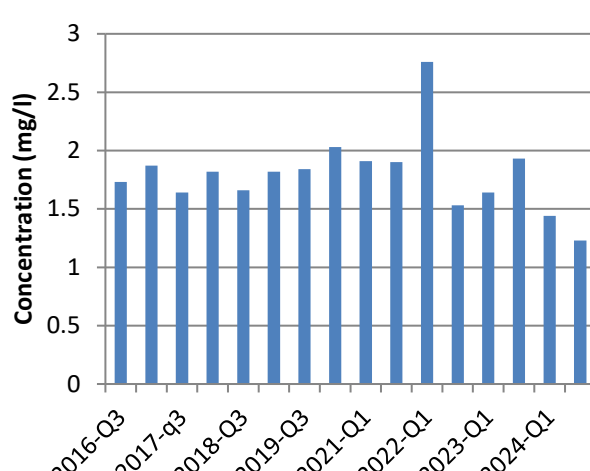
TMS monitoring - LF12M



TMS monitoring - LF11M

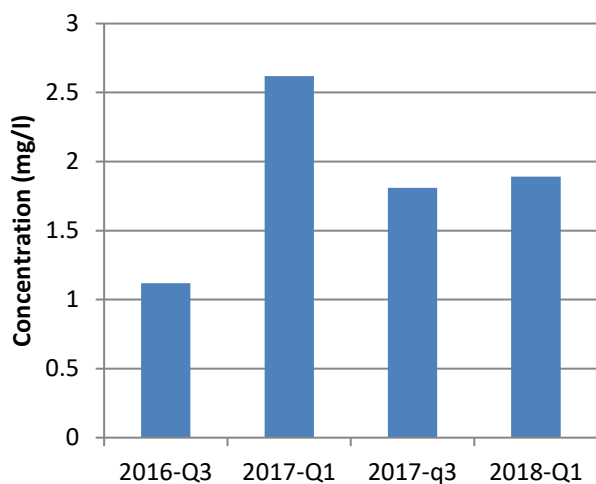


TMS monitoring - LF12D

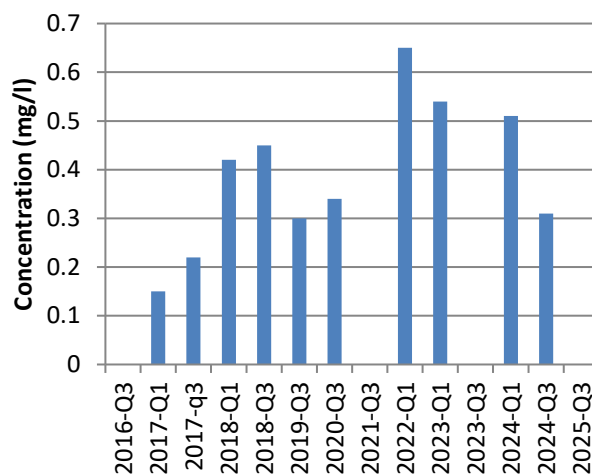




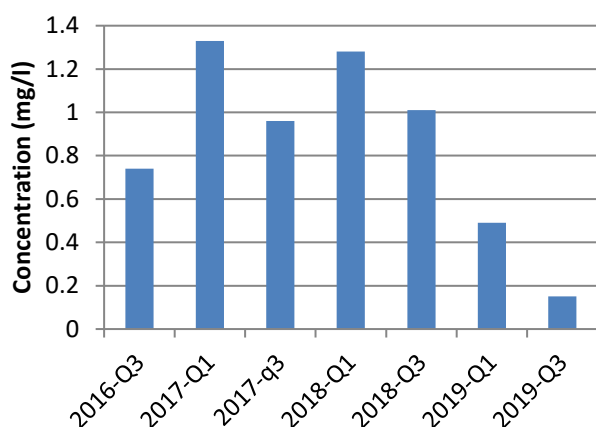
TMS monitoring - LF13S



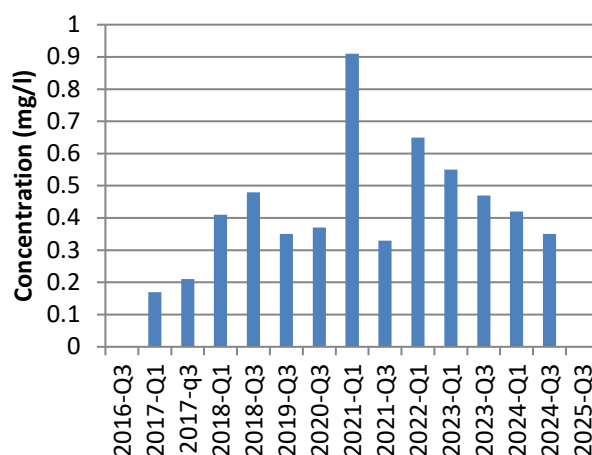
TMS monitoring - LF14S



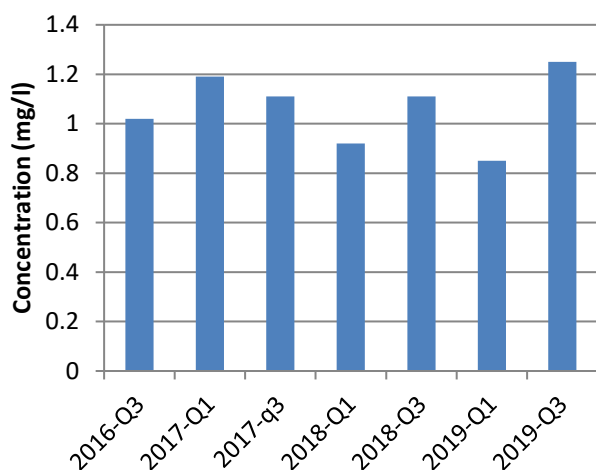
TMS monitoring - LF13M



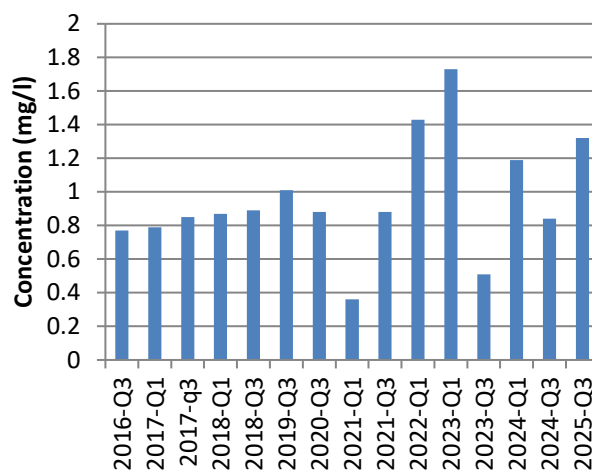
TMS monitoring - LF14M



TMS monitoring - LF13D



TMS monitoring - LF14D



	Q3 Landfill Groundwater Sampling Results 2025 Dow Silicones UK Ltd Barry	Quarter 3 2025
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Comments - TMS

1. No boreholes show significant TMS concentrations this quarter.
2. The results of sampling the boreholes shows the usual fluctuations.

The next report is to be completed for the next 6 months.