



WATER
SENSE



TE WAI TIKANGA

Tukituki
Land Care
Makara Catchment
Summary report
to August 2025

DISCLAIMER

Data - The following report is intended to provide a summary of the data received from Tukituki Land Care's, Makara catchment sampling programme and does not replace the official IANZ accredited reports in any way shape or form. In some cases, data points will be omitted to allow trending to be displayed more clearly. Please refer to the official lab reports as the primary source of information or for official reporting.

Test Information - Please note this is generalised information only about the tests and not to be used for any other purpose. Much of this information has been taken from the New Zealand Drinking Water Standards as New Zealand does not have Standards for streams, lakes, or rivers. Please treat all information with caution.

TEST INFORMATION

Escherichia Coli (E. coli) - Unlike other bacteria that comprise the total coliform group of organisms, *E. coli* is generally not found growing and reproducing in the environment. Consequently, *E. coli* is considered to be a species within the Coliform group that is the best indicator of recent faecal pollution and the potential for the presence of more dangerous disease-causing organisms (or pathogens).

*Five-year median for all sites in New Zealand: 180 n/100ml**

Nitrate and Nitrite Nitrogen (NO₃ + NO₂ - N) – The recommended limit in New Zealand is 11.4 mg/L for drinking water. If these limits are exceeded, excessive fertiliser use, human and/or animal waste contamination should be suspected.

*Five-year median for all sites in New Zealand is 0.027 mg/L**

Ammonia (NH₄) Nitrate (NO₃) and Nitrite (NO₂) Nitrogen – The recommended limit in New Zealand is 11.4 mg/L for drinking water. If these limits are exceeded, excessive fertiliser use, human and/or animal waste contamination should be suspected. High Nitrogen levels in water sources can cause excess algae growth and can lower the dissolved oxygen content of the waterway creating a toxic environment for aquatic life.

*Five-year median for all sites in New Zealand is 0.29 mg/L**

Dissolved Reactive Phosphorous – this is a proportion of Total Phosphorus that can readily and immediately support plant growth. High levels of dissolved reactive phosphorous can cause an increased risk of algal bloom.

*Five-year median for all sites in New Zealand is 0.00225 mg/L**

Turbidity – is a measurement of how well light can pass through the water and how much it scatters. High turbidity can mean less light is able to penetrate the surface, decreasing photosynthesis in aquatic plants.

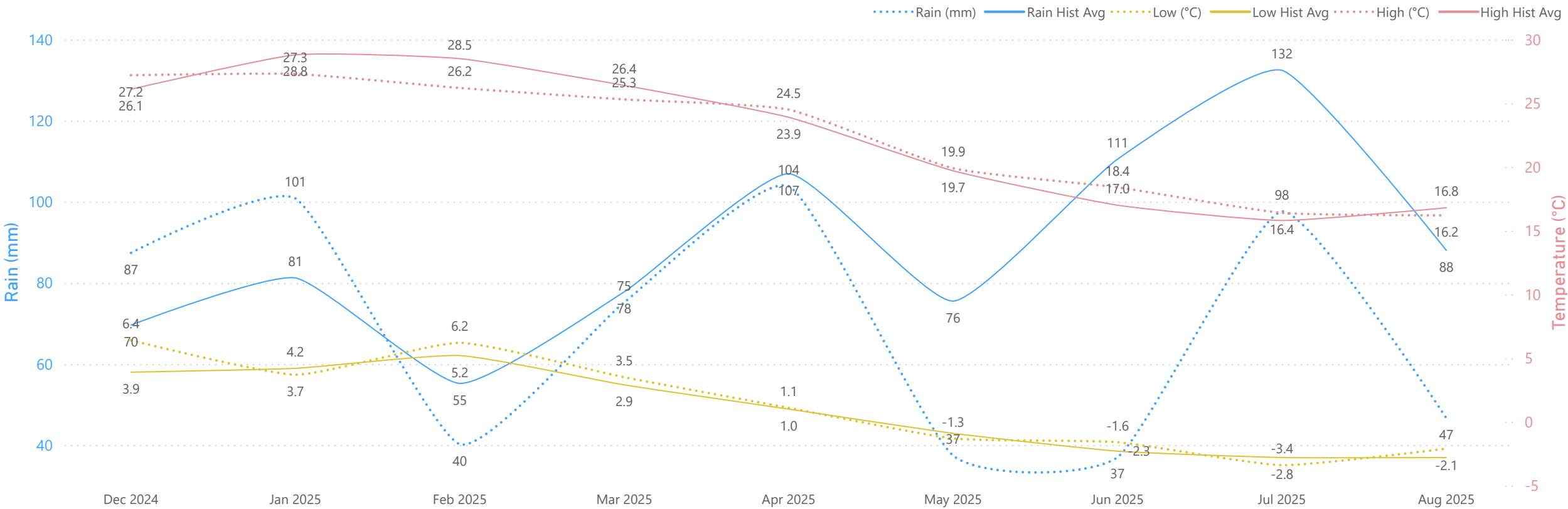
*Five-year median for all sites in New Zealand is 2.435 NTU**

References - Drinking Water Standards for NZ (2005, Revised 2018). Guidelines for Drinking Water Quality (WHO; 4th Edition (2011) and www.lawa.org.nz*)

Weather Data

Weather Trends

Monthly total mm rain and average high & low temperatures vs historical averages



Weather Data

	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025
High (°C)	27.20	27.30	26.20	25.30	24.50	19.90	18.40	16.40	16.20
High (°C) Hist Avg	26.10	28.80	28.50	26.40	23.90	19.70	17.00	15.80	16.80
Low (°C)	6.40	3.70	6.20	3.50	1.10	-1.30	-1.60	-3.40	-2.10
Low (°C) Hist Avg	3.90	4.20	5.20	2.90	1.00	-0.90	-2.30	-2.80	-2.80
Rain (mm)	87.40	100.80	40.20	75.20	103.80	37.40	37.00	97.60	46.60
Rain (mm) Hist Avg	69.60	81.20	55.20	77.80	106.90	75.50	110.50	132.40	88.00

Kokatawai Rd Bridge Makara Stream

July 2025

Metric Name	Value Average	Value Latest
☐ Nitrite-N		
Tukituki Land Care Kokatawai Rd Bridge Makara Stream	0.002	< 0.010
☐ Dissolved Reactive Phosphorus		
Tukituki Land Care Kokatawai Rd Bridge Makara Stream	0.004	< 0.020
☐ Ammonia as N		
Tukituki Land Care Kokatawai Rd Bridge Makara Stream	0.011	< 0.050
☐ Nitrate-N		
Tukituki Land Care Kokatawai Rd Bridge Makara Stream	0.054	0.187
☐ Total Oxidised Nitrogen (NO2N + NO3N)		
Tukituki Land Care Kokatawai Rd Bridge Makara Stream	0.054	0.187
☐ E. coli		
Tukituki Land Care Kokatawai Rd Bridge Makara Stream	223.875	45.000

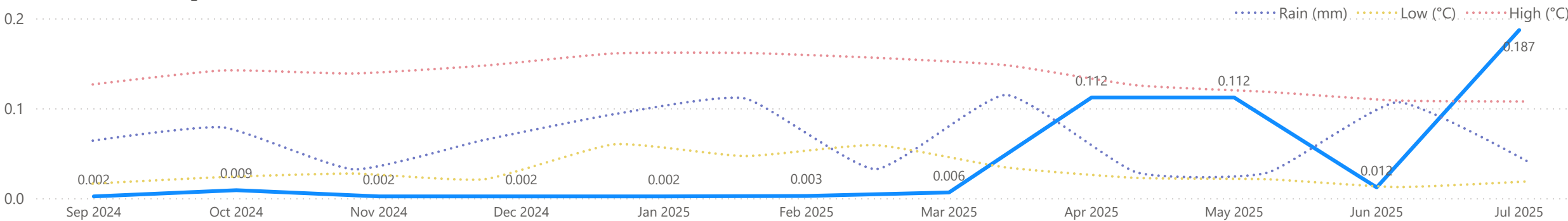
Site Name	Latest Sample DateTime
Tukituki Land Care Kokatawai Rd Bridge Makara Stream	23/07/2025 1:09:00 p.m.



Kokatawai Rd Bridge Makara Stream February 2025

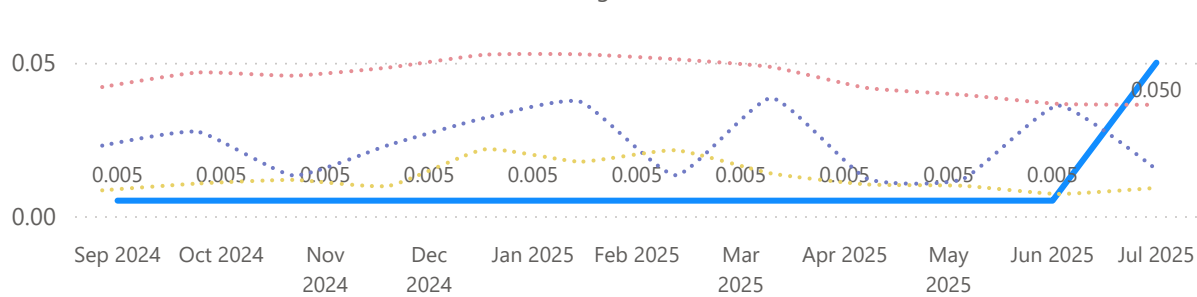
Kokatawai Rd Bridge Makara Stream Latest Trends & Weather

Total Oxidised Nitrogen (NO2N + NO3N)

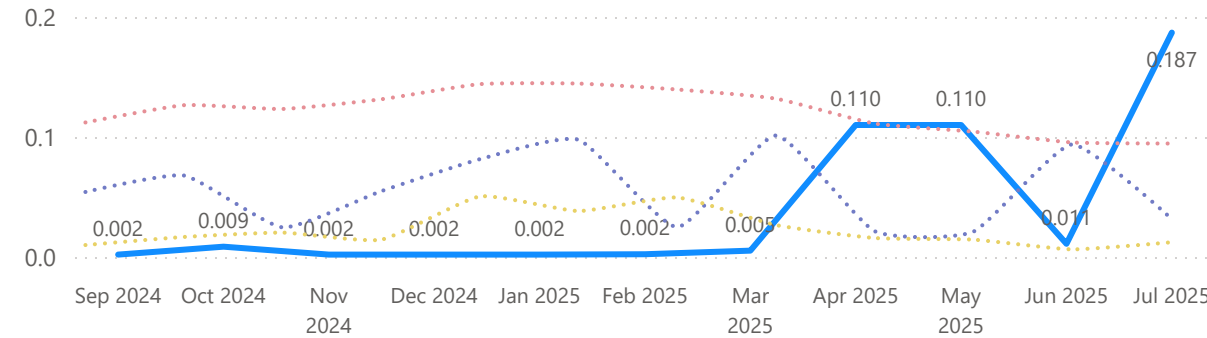


Ammonia as N

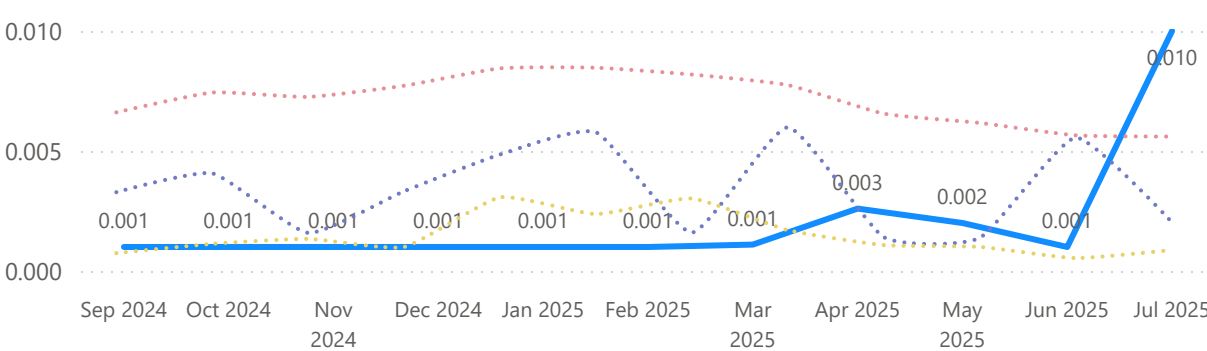
Site Name — Tukituki Land Care Kokatawai Rd Bridge Makara Stream



Nitrate-N

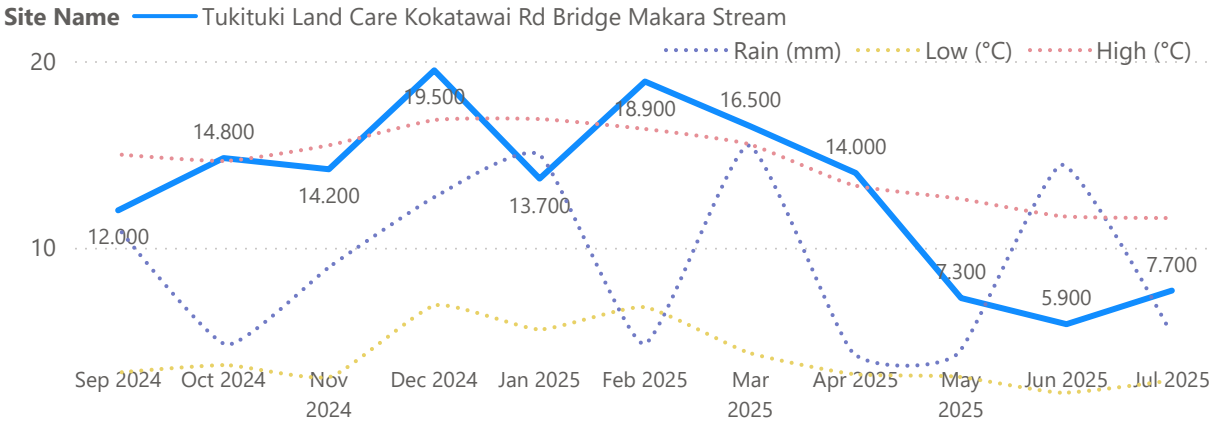


Nitrite-N

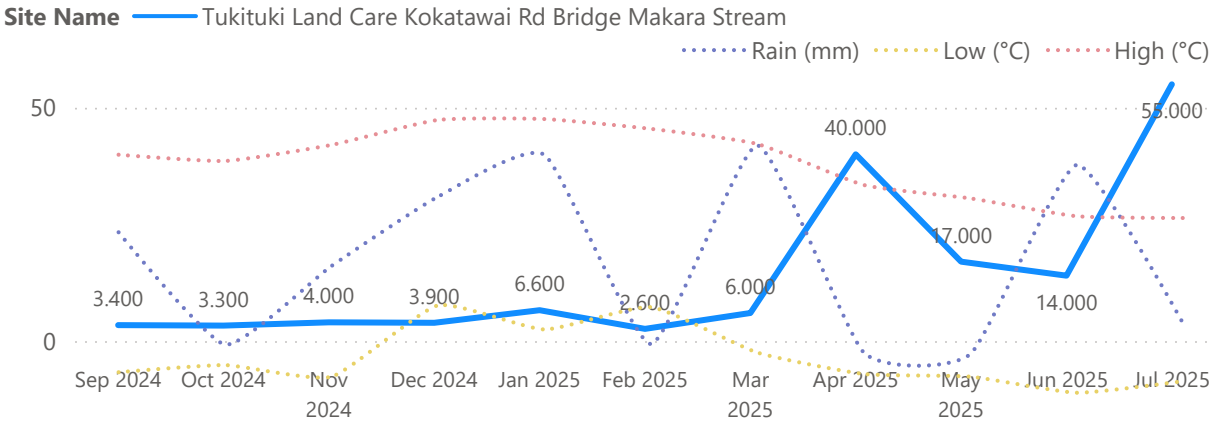


Kokatawai Rd Bridge Makara Stream Latest Trends & Weather

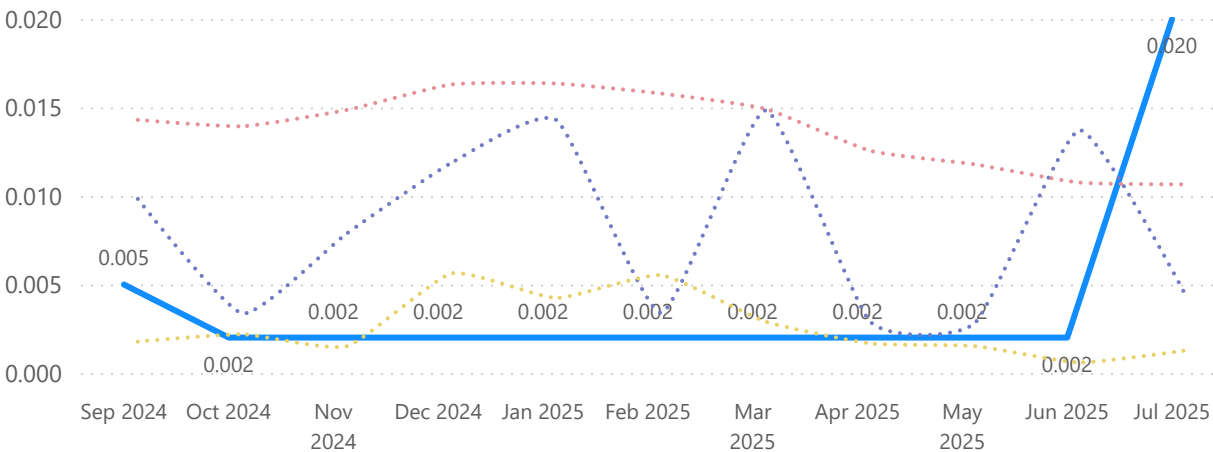
Water Temp onsite



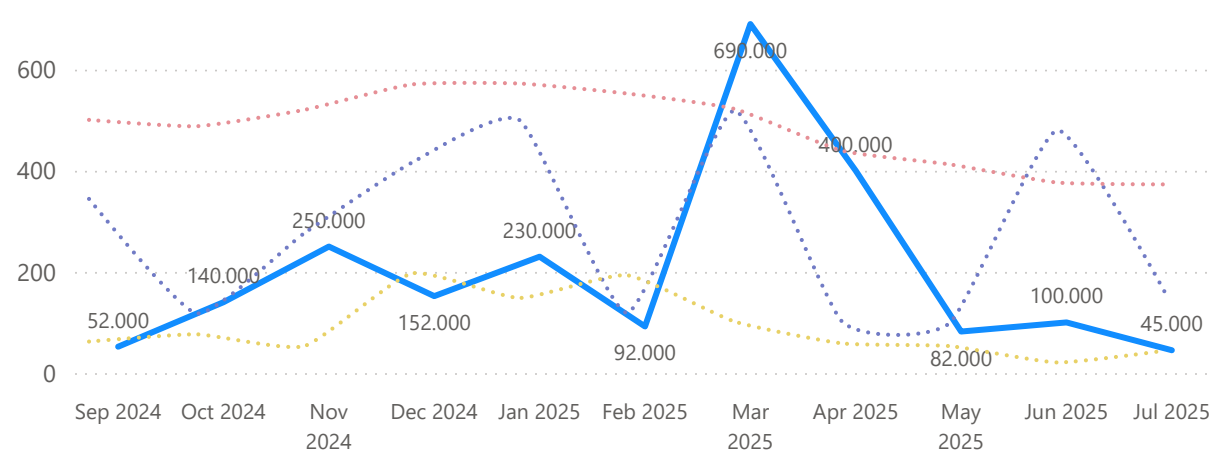
Turbidity



Dissolved Reactive Phosphorus



E. coli





Duncan Bridge Wharemate Stream

July 2025

Metric Name	Value Average	Value Latest
▲		
[-] Ammonia as N		
Tukituki Land Care Duncan Bridge Wharemate Stream	0.011	< 0.050
[-] Dissolved Reactive Phosphorus		
Tukituki Land Care Duncan Bridge Wharemate Stream	0.080	0.132
[-] E. coli		
Tukituki Land Care Duncan Bridge Wharemate Stream	88.857	210.000
[-] Nitrate-N		
Tukituki Land Care Duncan Bridge Wharemate Stream	0.070	0.473
[-] Nitrite-N		
Tukituki Land Care Duncan Bridge Wharemate Stream	0.003	0.012
[-] Total Oxidised Nitrogen (NO2N + NO3N)		
Tukituki Land Care Duncan Bridge Wharemate Stream	0.073	0.486

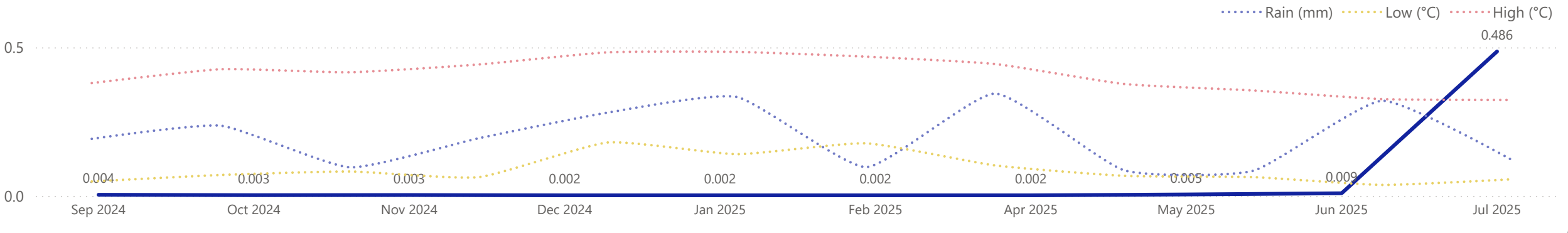
Site Name	Latest Sample DateTime
Tukituki Land Care Duncan Bridge Wharemate Stream	23/07/2025 2:02:00 p.m.



Duncan Bridge Wharemate Stream February 2025

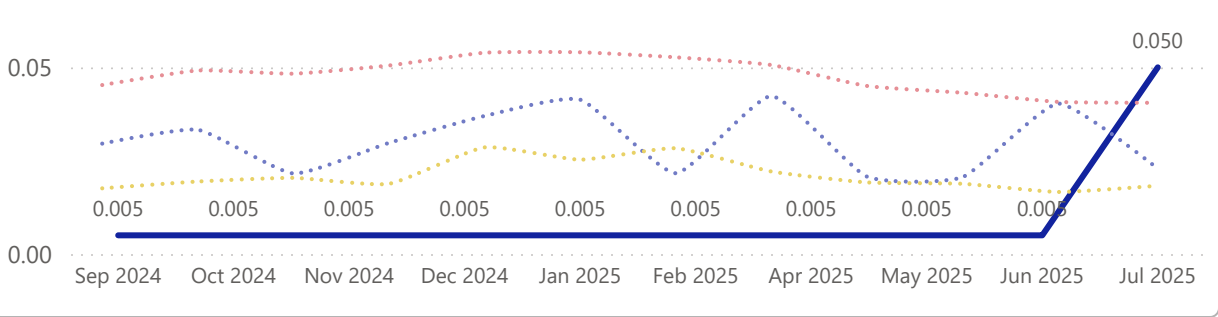
Duncan Bridge Wharemate Stream Latest Trends & Weather

Total Oxidised Nitrogen (NO2N + NO3N)

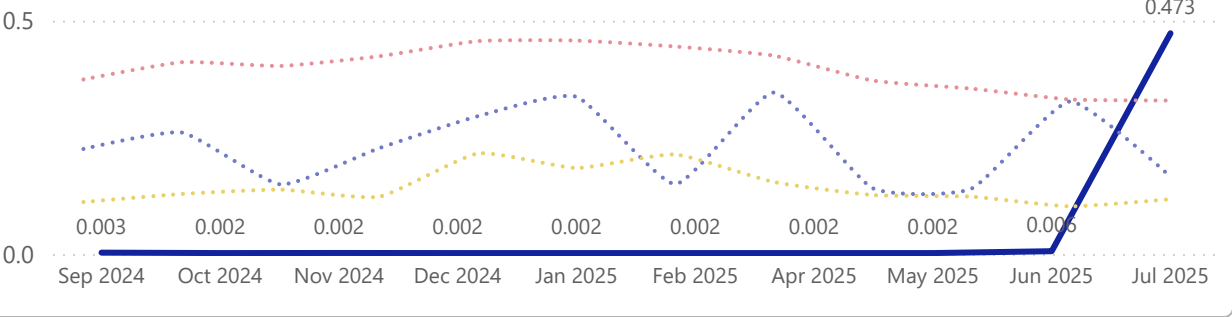


Ammonia as N

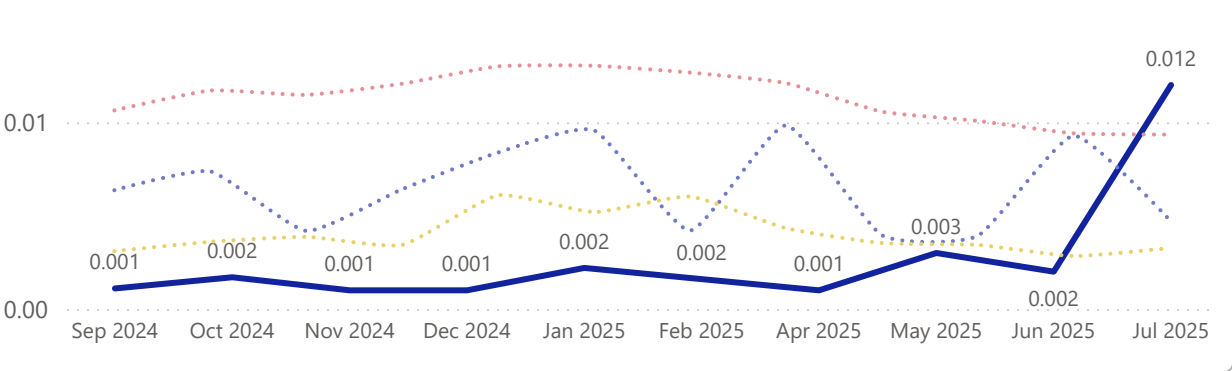
Site Name — Tukituki Land Care Duncan Bridge Wharemate Stream



Nitrate-N

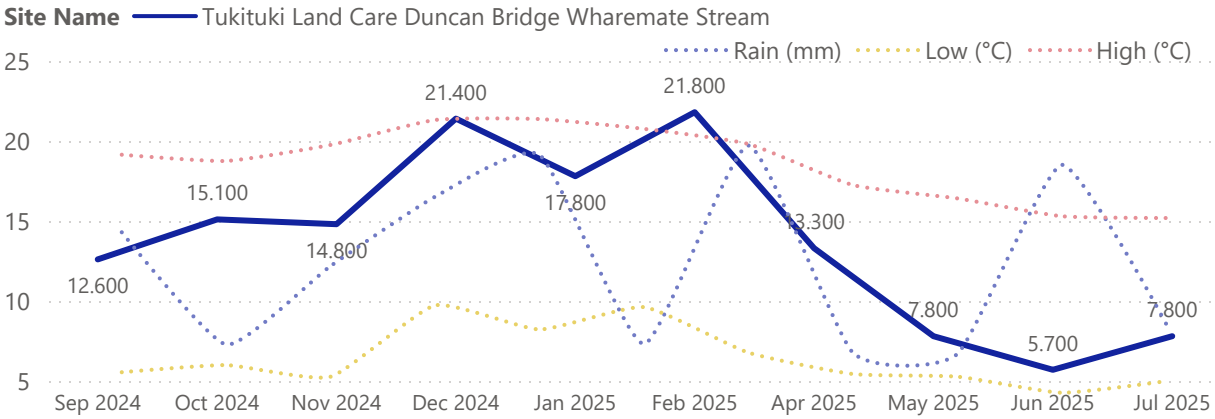


Nitrite-N

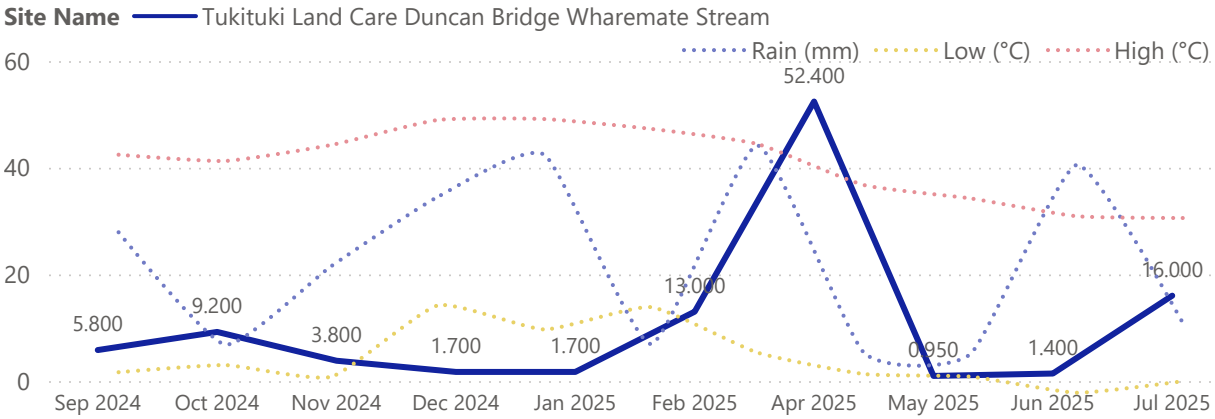


Duncan Bridge Wharemate Stream Latest Trends & Weather

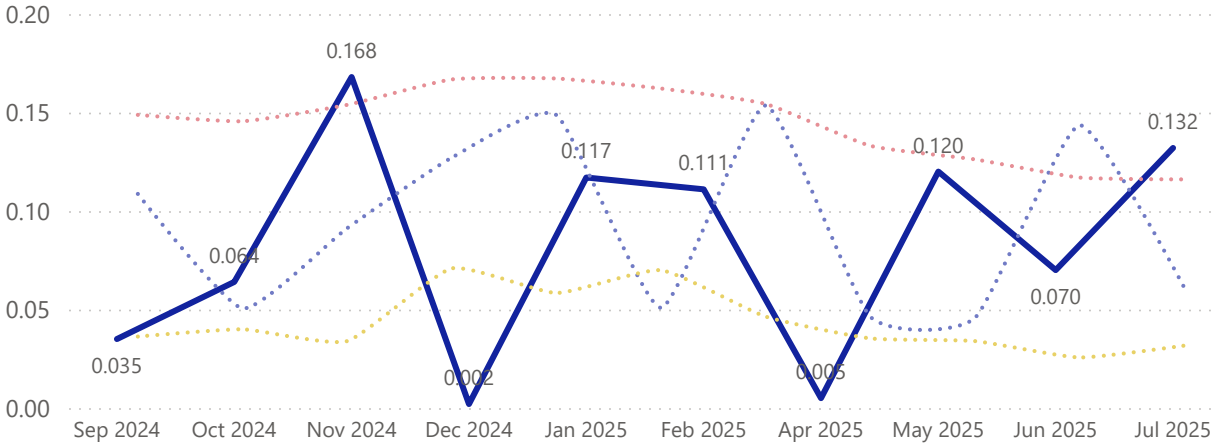
Water Temp onsite



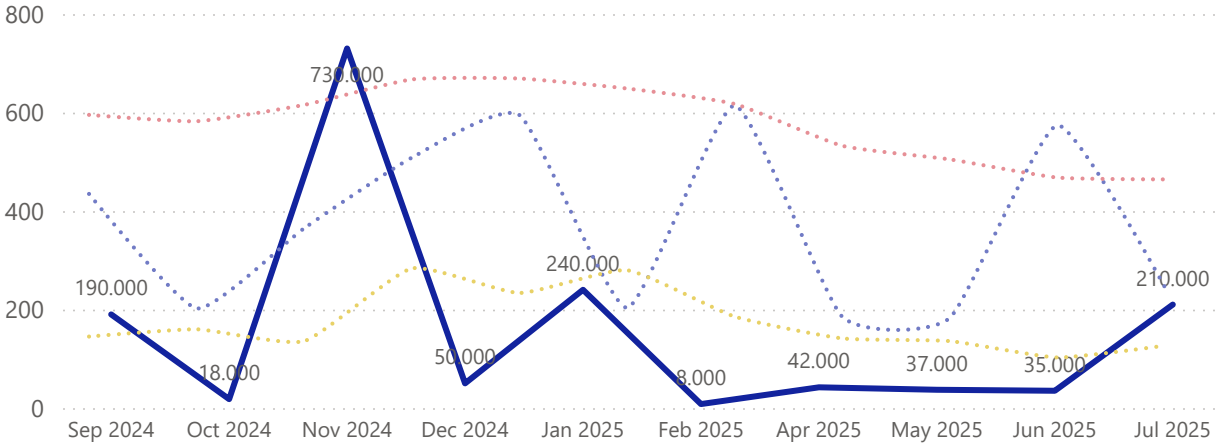
Turbidity



Dissolved Reactive Phosphorus



E. coli



Kairakau Rd Bridge Makara Stream

July 2025

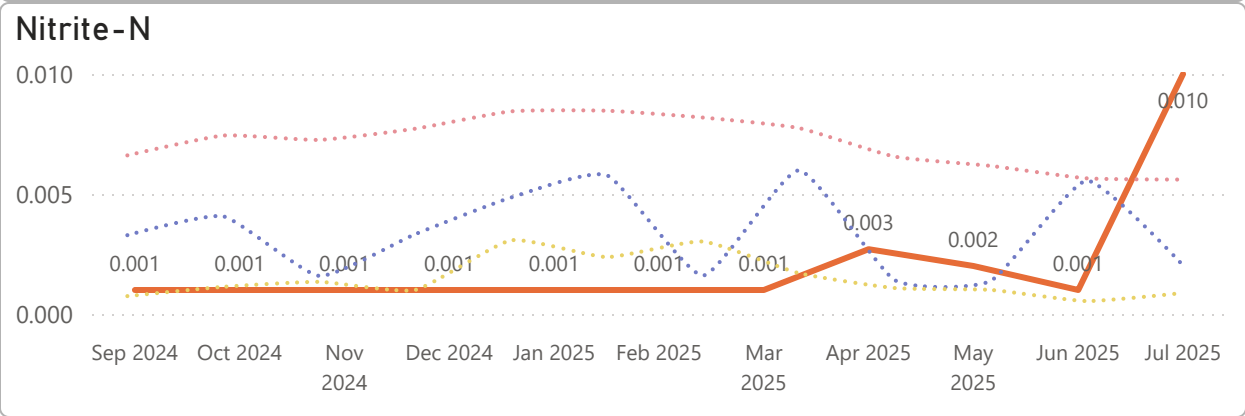
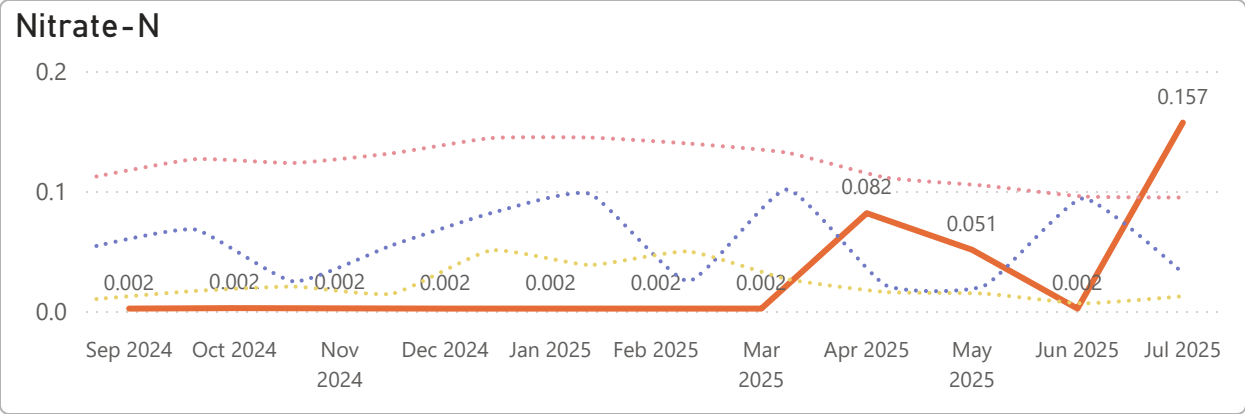
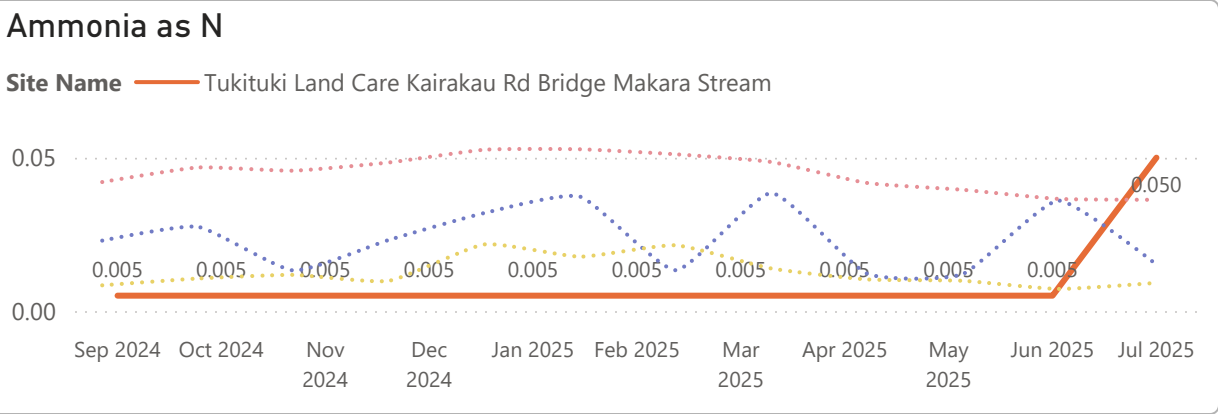
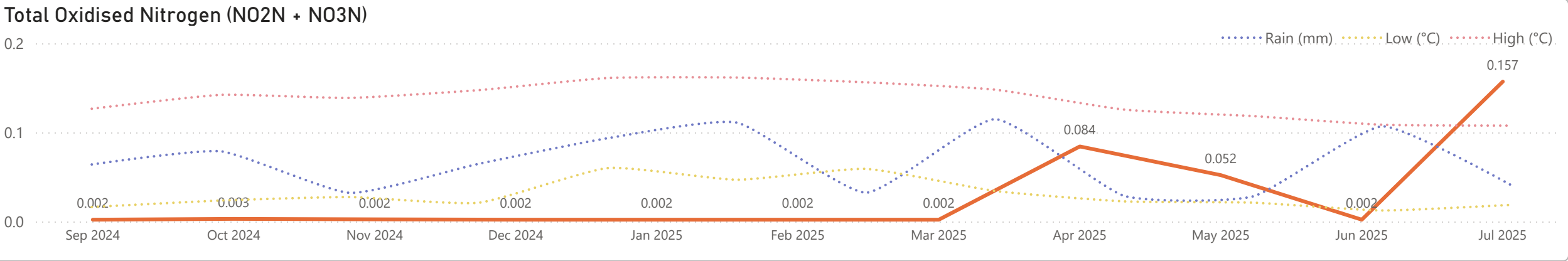
Metric Name	Value Average	Value Latest
▲		
[-] Ammonia as N		
Tukituki Land Care Kairakau Rd Bridge Makara Stream	0.011	< 0.050
[-] Dissolved Reactive Phosphorus		
Tukituki Land Care Kairakau Rd Bridge Makara Stream	0.005	< 0.020
[-] E. coli		
Tukituki Land Care Kairakau Rd Bridge Makara Stream	120.000	78.000
[-] Nitrate-N		
Tukituki Land Care Kairakau Rd Bridge Makara Stream	0.037	0.157
[-] Nitrite-N		
Tukituki Land Care Kairakau Rd Bridge Makara Stream	0.002	< 0.010
[-] Total Oxidised Nitrogen (NO2N + NO3N)		
Tukituki Land Care Kairakau Rd Bridge Makara Stream	0.038	0.157

Site Name	Latest Sample DateTime
Tukituki Land Care Kairakau Rd Bridge Makara Stream	23/07/2025 1:24:00 p.m.



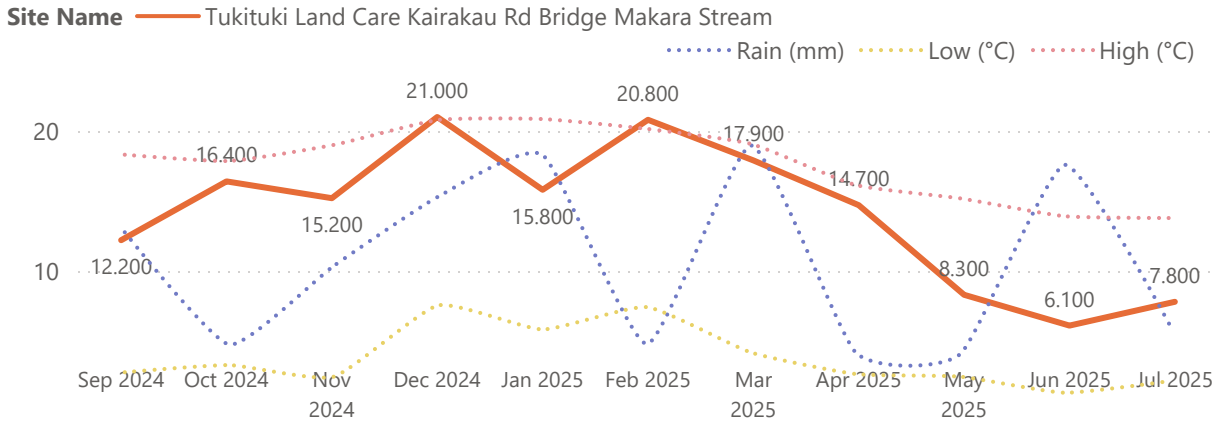
Kairakau Rd Bridge Makara Stream February 2025

Kairakau Road Bridge Makara Stream Latest Trends & Weather

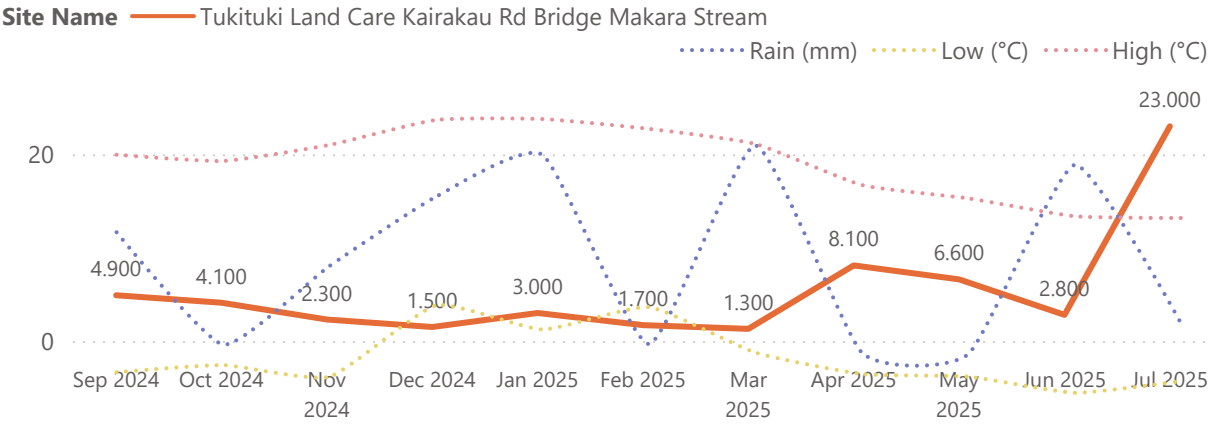


Kairakau Road Bridge Makara Stream Latest Trends & Weather

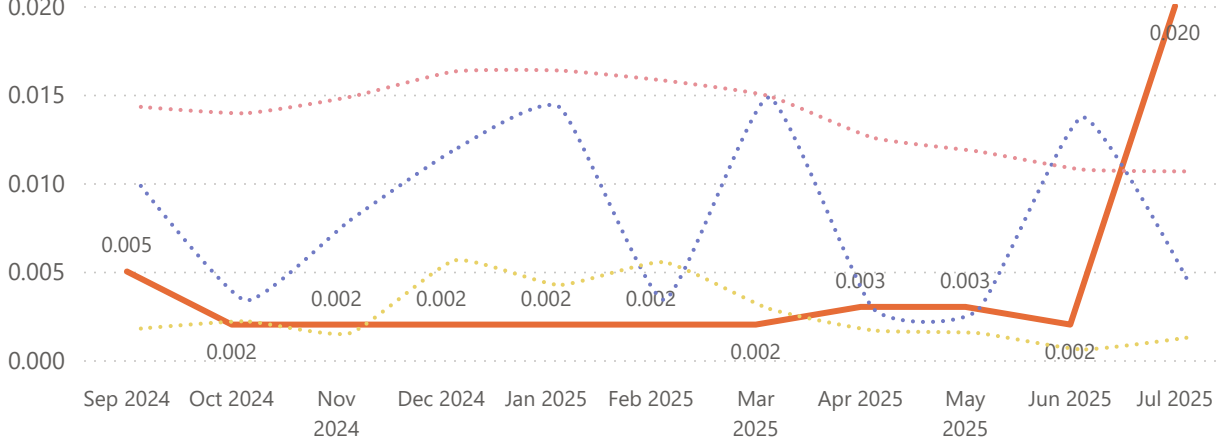
Water Temp onsite



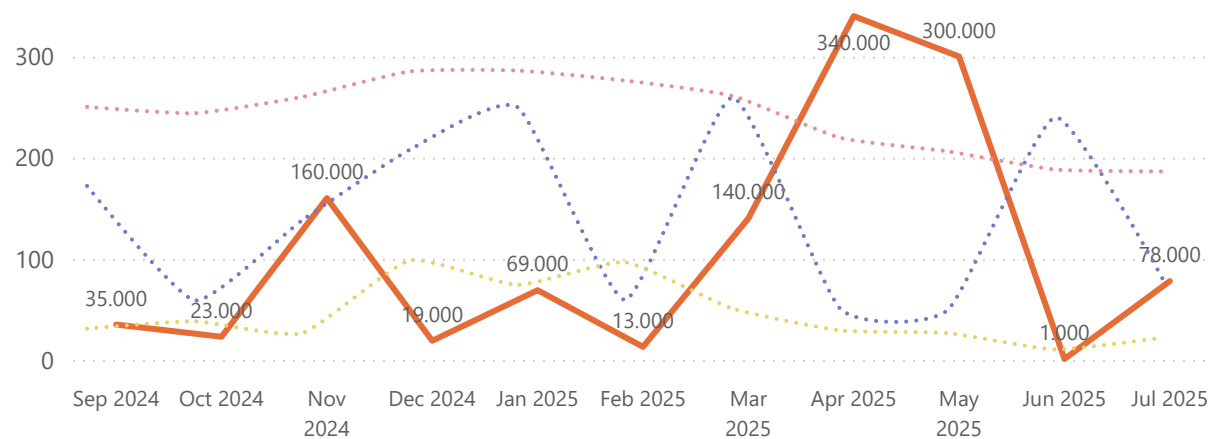
Turbidity



Dissolved Reactive Phosphorus



E. coli



Tucker Access Bridge Hawea Stream

July 2025

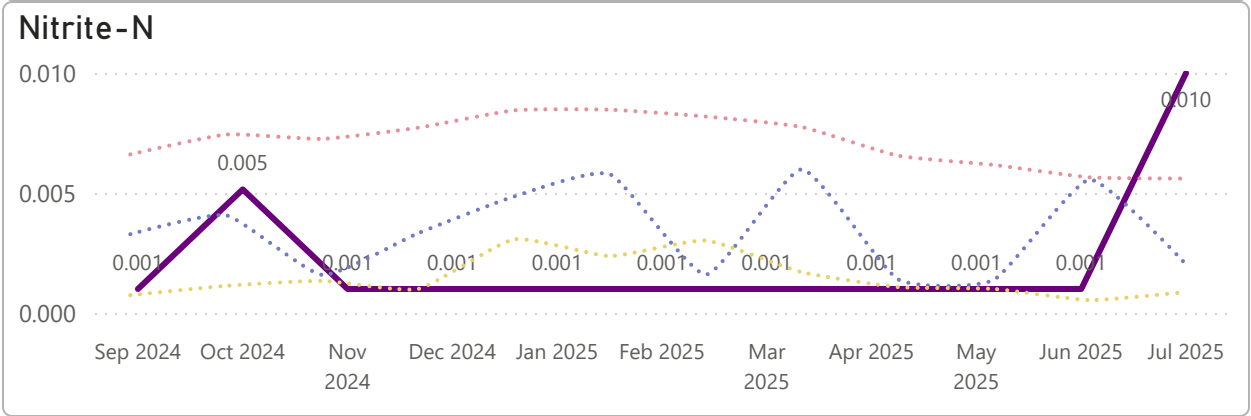
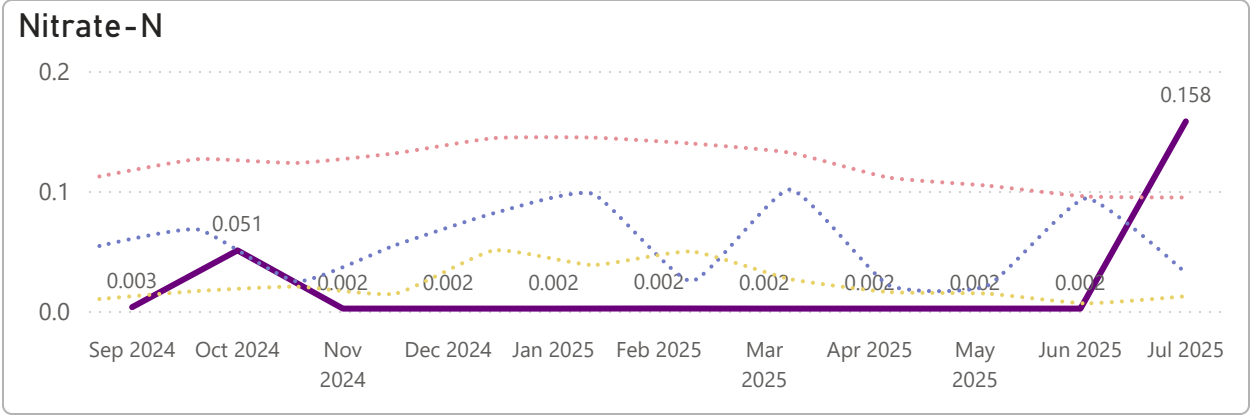
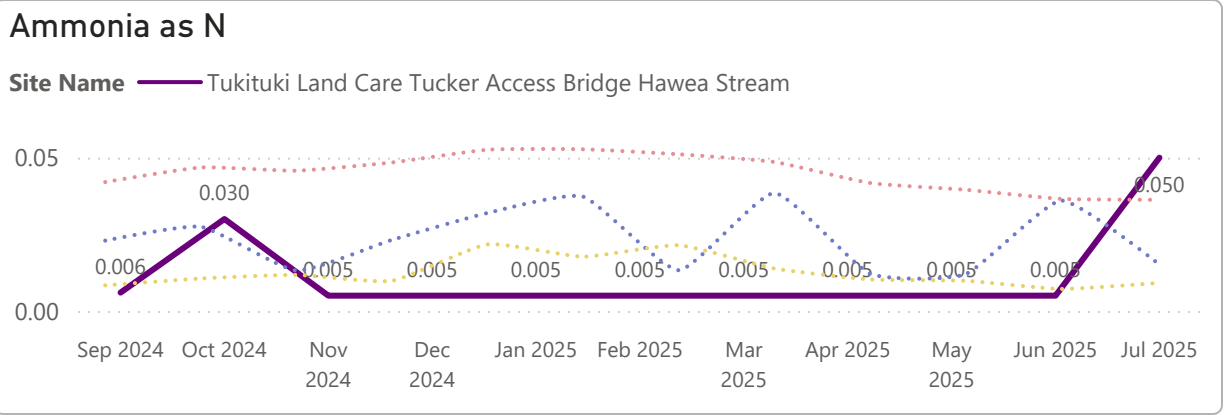
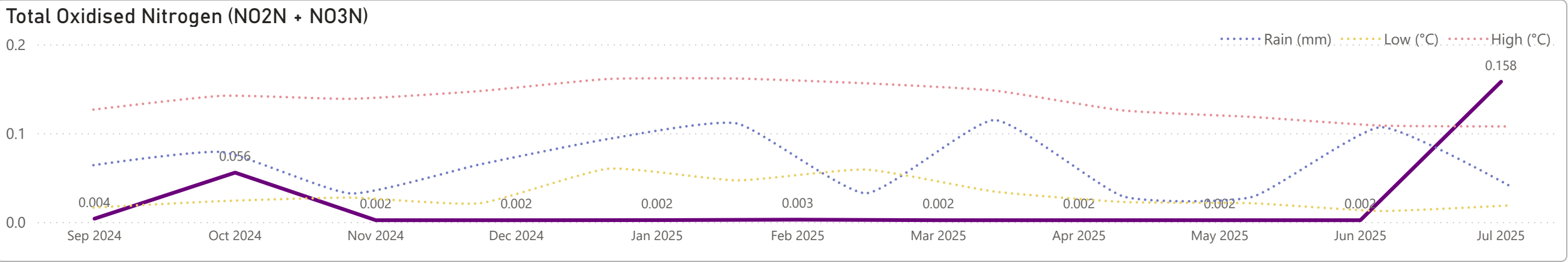
Metric Name	Value Average	Value Latest
▼		
[-] Total Oxidised Nitrogen (NO2N + NO3N)		
Tukituki Land Care Tucker Access Bridge Hawea Stream	0.022	0.158
[-] Nitrite-N		
Tukituki Land Care Tucker Access Bridge Hawea Stream	0.002	< 0.010
[-] Nitrate-N		
Tukituki Land Care Tucker Access Bridge Hawea Stream	0.022	0.158
[-] E. coli		
Tukituki Land Care Tucker Access Bridge Hawea Stream	42.750	88.000
[-] Dissolved Reactive Phosphorus		
Tukituki Land Care Tucker Access Bridge Hawea Stream	0.004	< 0.020
[-] Ammonia as N		
Tukituki Land Care Tucker Access Bridge Hawea Stream	0.011	< 0.050

Site Name	Latest Sample DateTime
Tukituki Land Care Tucker Access Bridge Hawea Stream	23/07/2025 1:36:00 p.m.



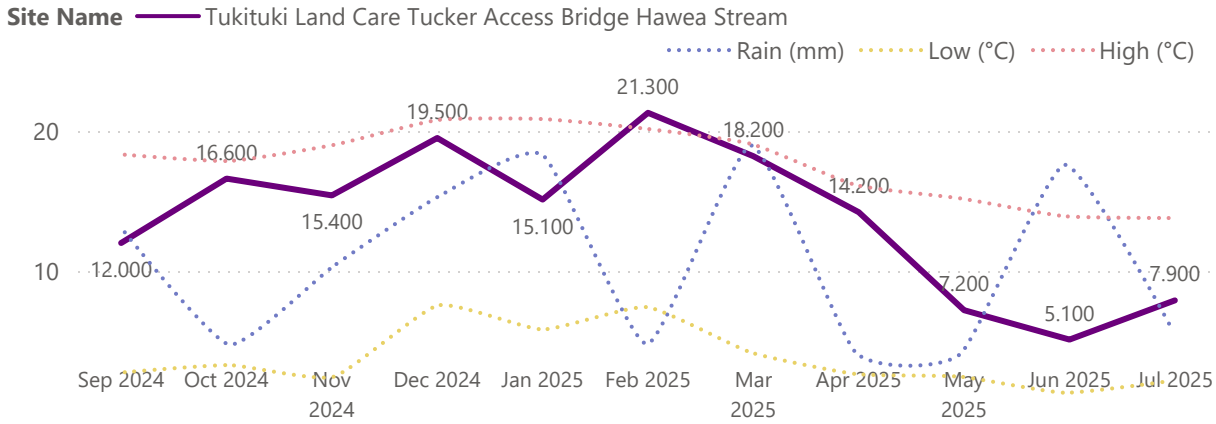
Tucker Access Bridge Hawea February 2025

Tucker Access Bridge, Hawea Stream Latest Trends & Weather

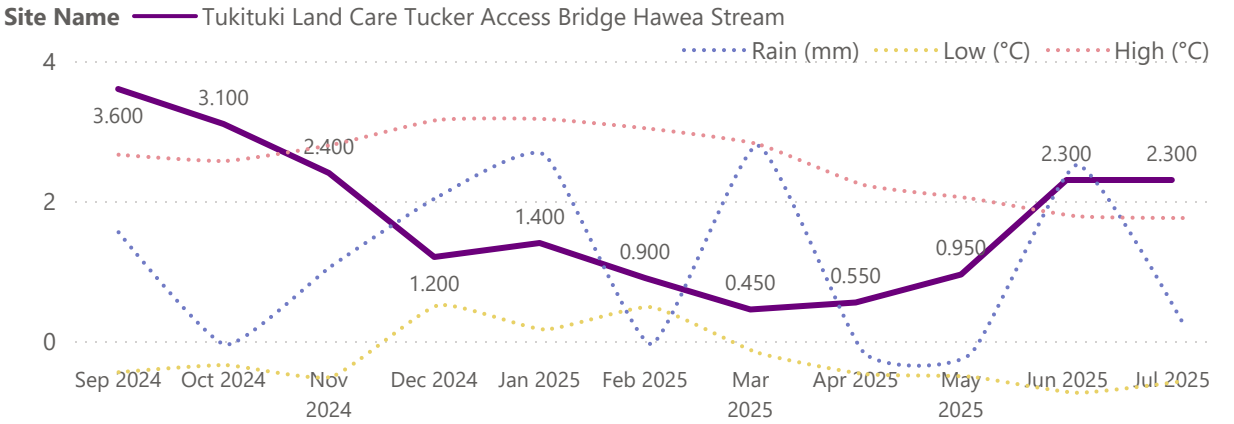


Tucker Access Bridge, Hawea Stream Latest Trends & Weather

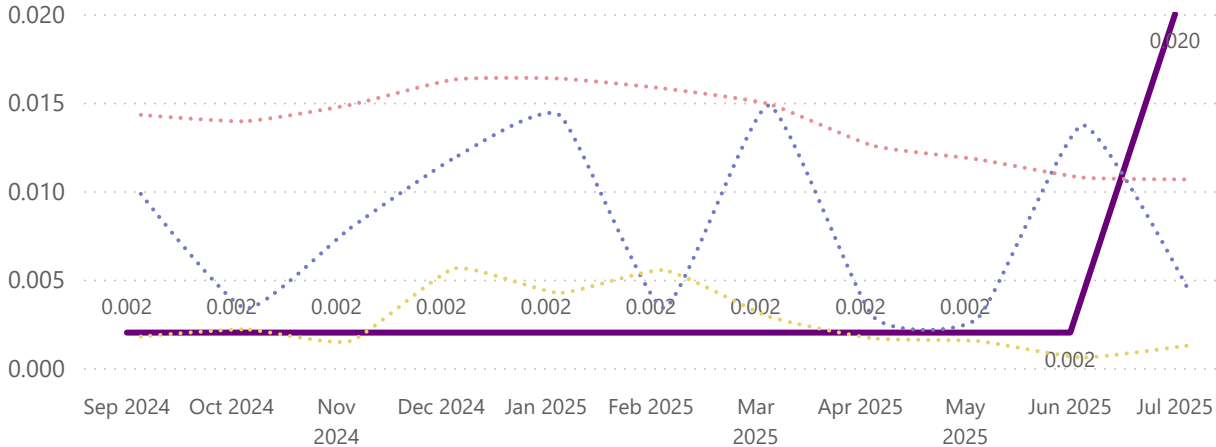
Water Temp onsite



Turbidity



Dissolved Reactive Phosphorus



E. coli

