



WATER
S E N S E



TE WAI TIKANGA

**Tukituki
Land Care**

**Mangaonuku
Catchment**

**Summary report
to May 2026**

DISCLAIMER

Data - The following report is intended to provide a summary of the data received from Tukituki Land Care's, Mangaonuku 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).

HBRC planned target <260 E.coli/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.

HBRC planned target <0.010 mg/L

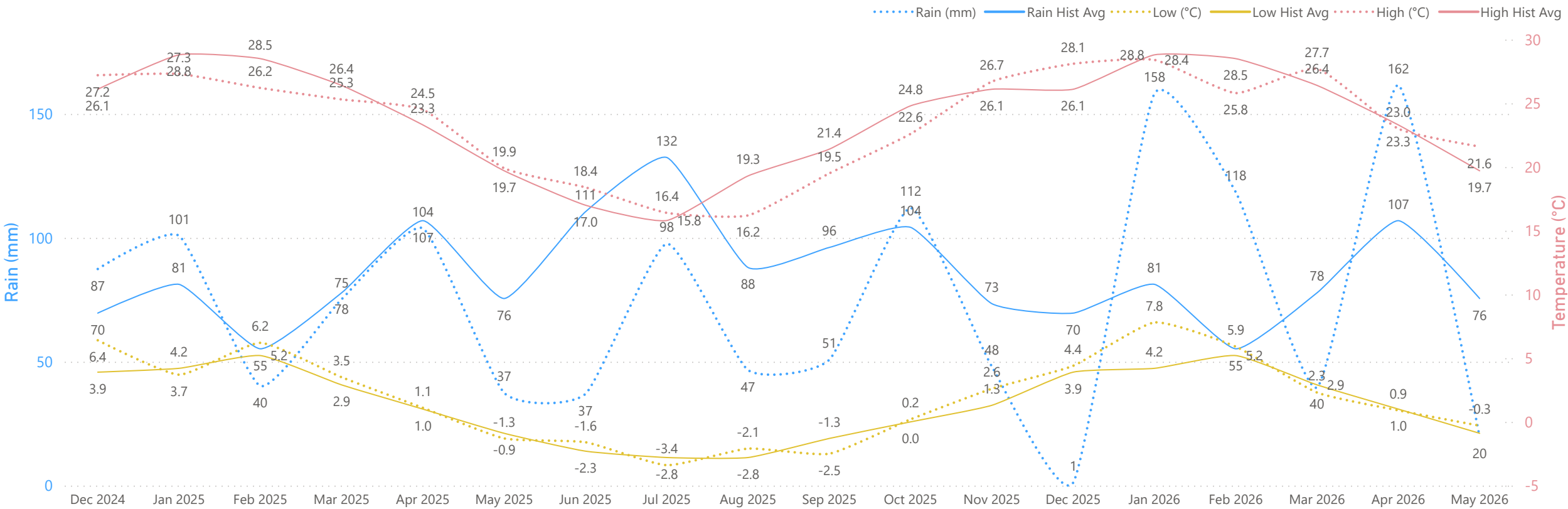
HBRC Rolling Medium for Mangaonuku Stream 0.018 mg/L

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	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Apr 2026	May 2026
High (°C)	27.20	27.30	26.20	25.30	24.50	19.90	18.40	16.40	16.20	19.50	22.60	26.70	28.10	28.40	25.80	27.70	23.00	21.60
High (°C) Hist Avg	26.10	28.80	28.50	26.40	23.30	19.70	17.00	15.80	19.30	21.40	24.80	26.10	26.10	28.80	28.50	26.40	23.30	19.70
Low (°C)	6.40	3.70	6.20	3.50	1.10	-1.30	-1.60	-3.40	-2.10	-2.50	0.20	2.60	4.40	7.80	5.90	2.30	0.90	-0.30
Low (°C) Hist Avg	3.90	4.20	5.20	2.90	1.00	-0.90	-2.30	-2.80	-2.80	-1.30	0.00	1.30	3.90	4.20	5.20	2.90	1.00	-0.90
Rain (mm)	87.40	100.80	40.20	75.20	103.80	37.40	37.00	97.60	46.60	50.80	112.00	48.00	1.20	158.20	118.40	39.60	161.60	19.60
Rain (mm) Hist Avg	69.60	81.20	55.20	77.80	106.90	75.50	110.50	132.40	88.00	96.10	104.20	73.40	69.60	81.20	55.20	77.80	106.90	75.50

Brow Road Wetland May 2026

Metric Name	Value Ave Post- Wetland	Value Latest
☐ Ammonia as N		
Brow Road Wetland Inflow	0.044	0.006
Brow Road Wetland Outflow	0.007	0.010
☐ Dissolved Reactive Phosphorus		
Brow Road Wetland Inflow	0.009	0.014
Brow Road Wetland Outflow	0.007	0.011
☐ E. coli		
Brow Road Wetland Inflow	14.600	6.000
Brow Road Wetland Outflow	17.000	1.000
☐ Nitrate-N		
Brow Road Wetland Inflow	1.243	1.690
Brow Road Wetland Outflow	1.445	2.130
☐ Nitrite-N		
Brow Road Wetland Inflow	0.009	0.002
Brow Road Wetland Outflow	0.007	0.004
☐ Total Oxidised Nitrogen (NO₂N + NO₃N)		
Brow Road Wetland Inflow	1.253	1.700
Brow Road Wetland Outflow	1.452	2.140

Site Name	Latest Sample DateTime
Brow Road Wetland Inflow	26/05/2026 11:14:00 a.m.
Brow Road Wetland Outflow	26/05/2026 11:08:00 a.m.

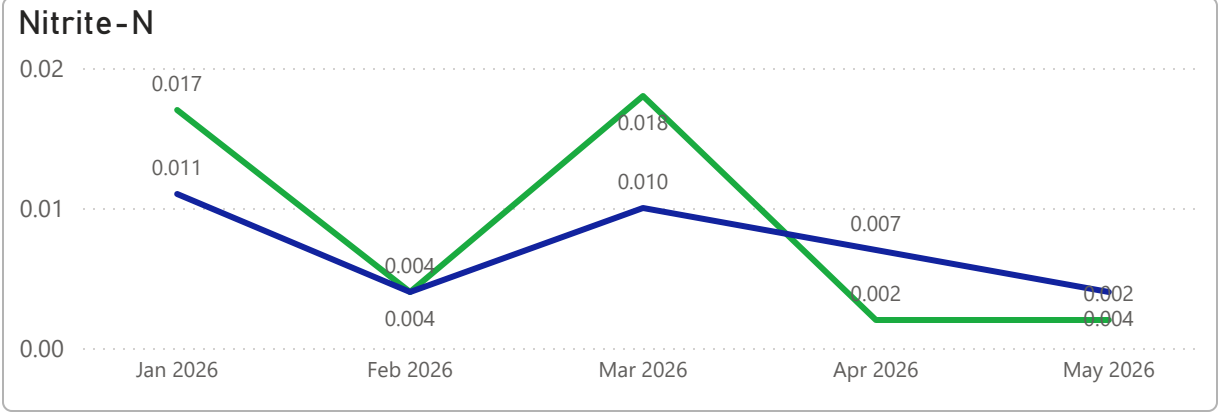
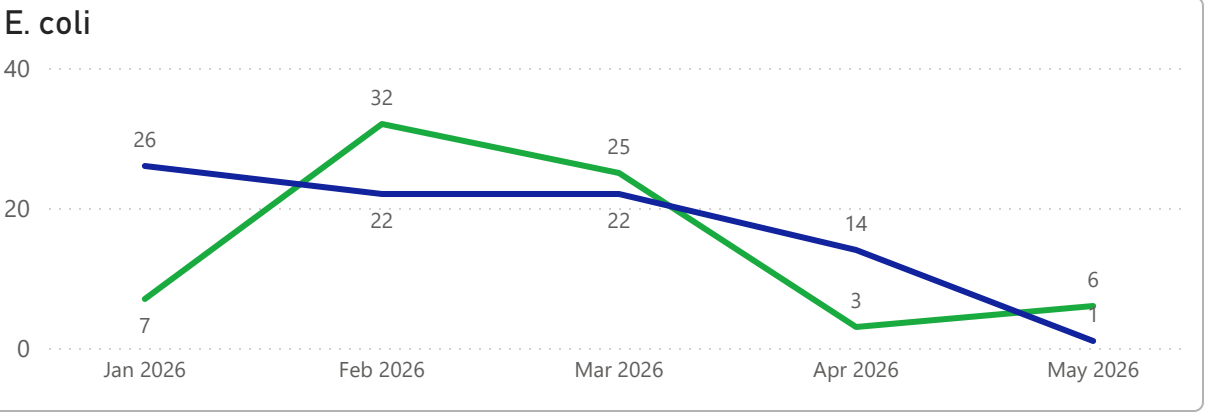
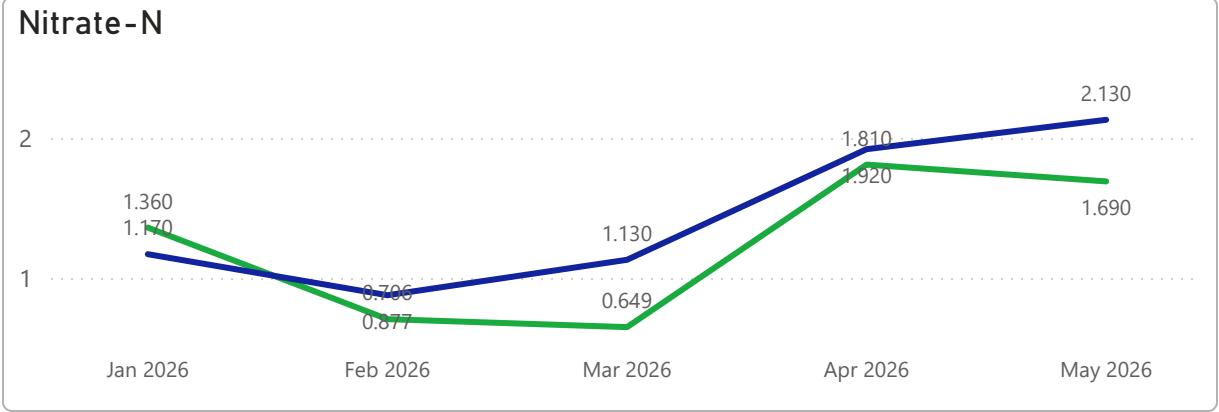
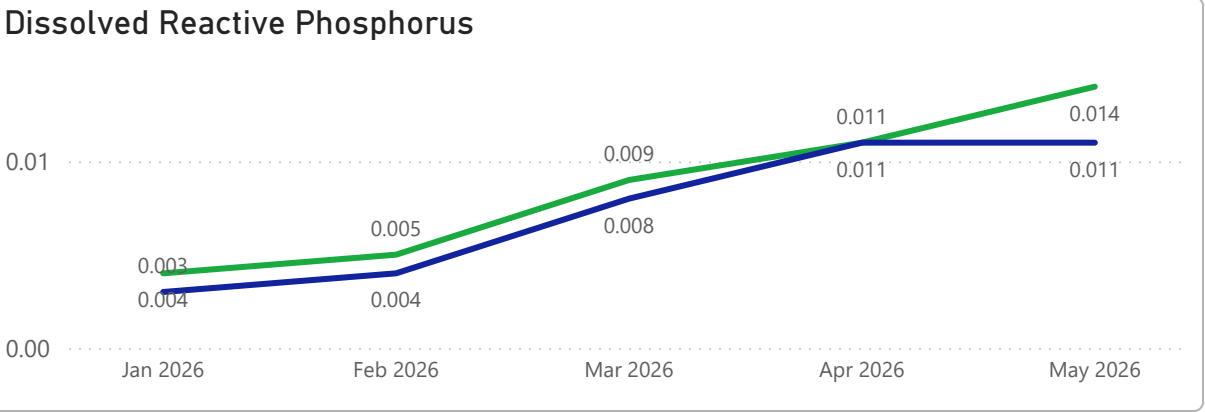
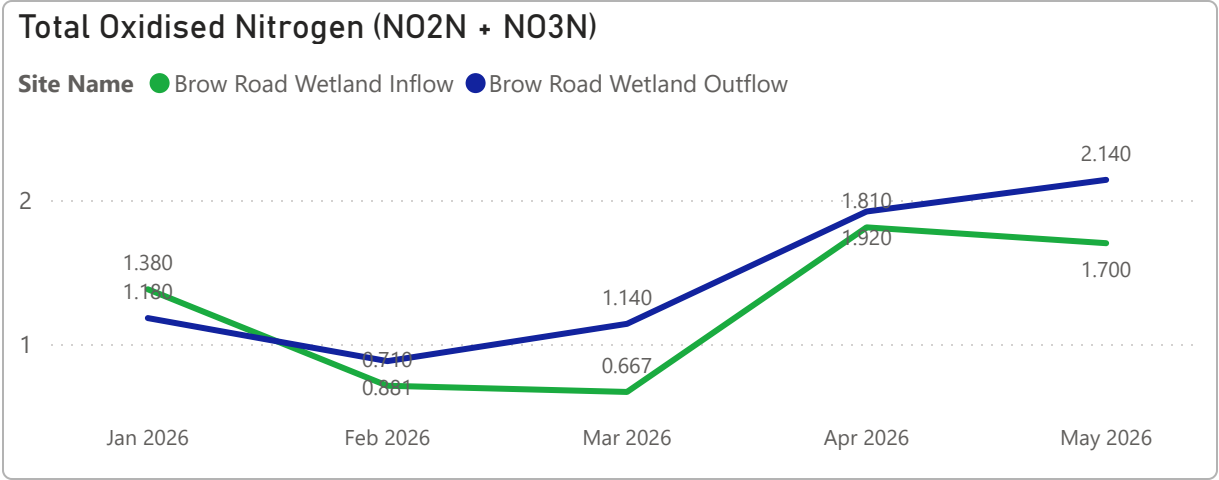
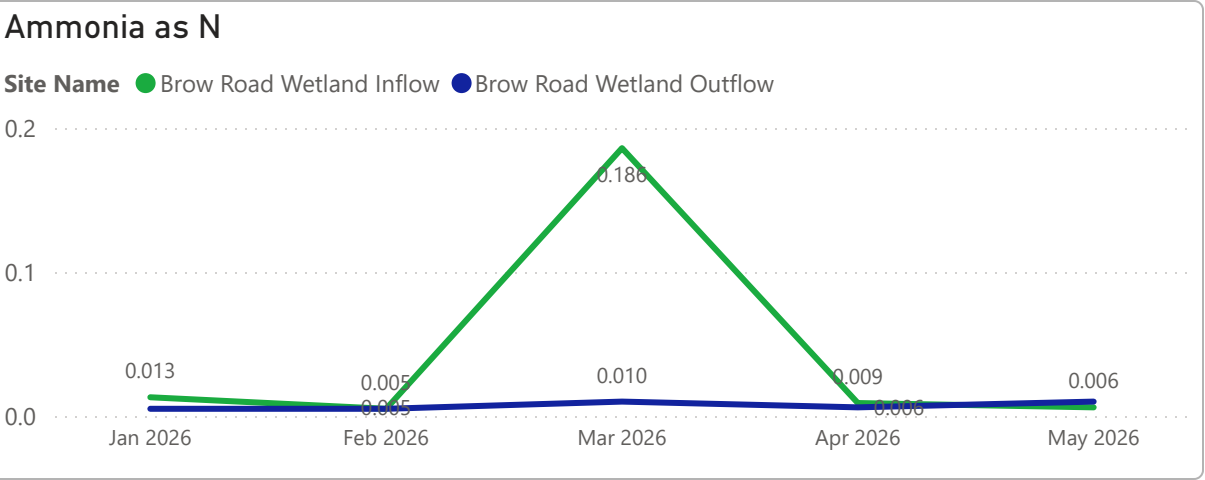
Brow Road Wetland Inflow May 2026



Brow Road Wetland Outflow May 2026



Brow Road Wetland Trends



Mangatahi Stream

May 2026

Metric Name	Value Ave	Value Latest
Ammonia as N		
Mangatahi Stream Downstream	0.013	0.009
Mangatahi Stream Middle	0.016	0.012
Mangatahi Stream Upstream	0.006	< 0.005
Dissolved Reactive Phosphorus		
Mangatahi Stream Downstream	0.050	0.040
Mangatahi Stream Middle	0.052	0.041
Mangatahi Stream Upstream	0.052	0.055
E. coli		
Mangatahi Stream Downstream	273.600	410.000
Mangatahi Stream Middle	582.000	220.000
Mangatahi Stream Upstream	750.200	81.000
Nitrate-N		
Mangatahi Stream Downstream	0.825	1.390
Mangatahi Stream Middle	1.208	1.730
Mangatahi Stream Upstream	0.085	< 0.002
Nitrite-N		
Mangatahi Stream Downstream	0.004	0.004
Mangatahi Stream Middle	0.007	0.006
Mangatahi Stream Upstream	0.002	< 0.001
Total Oxidised Nitrogen (NO2N + NO3N)		
Mangatahi Stream Downstream	0.830	1.390
Mangatahi Stream Middle	1.216	1.740
Mangatahi Stream Upstream	0.087	< 0.002

Site Name	Latest Sample DateTime
Mangatahi Stream Downstream	26/05/2026 11:31:00 a.m.
Mangatahi Stream Middle	26/05/2026 11:46:00 a.m.
Mangatahi Stream Upstream	26/05/2026 11:58:00 a.m.

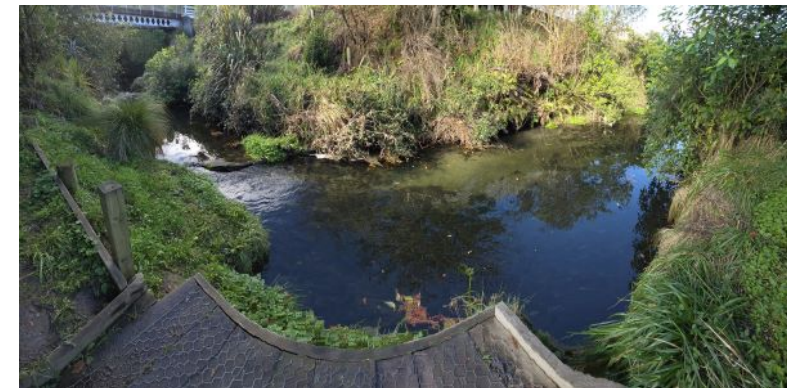
Mangatahi Stream Upstream May 2026



Mangatahi Stream Middle May 2026



Mangatahi Stream Downstream May 2026



Mangatahi Stream Trends

