

# Ahuroa at Braigh Flats

## Water Quality Report Card for 2024



### Site description

The Ahuroa River originates in the Waipu Gorge Forest and flows through predominantly lowland agricultural land before discharging into the Waipu River. Routine monitoring started at this site in January 2022.



### Summary

Ammonical-N, Nitrate-N, Dissolved Inorganic Nitrogen levels and visual clarity exceeded the water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.033	✗	✗	✗		
Nitrite-N	g/m3	Median <0.11	0.31	✗	✗	✗		
Visual Clarity	m	Median >0.97	0.65	✗	✗	✓		
E.coli	MPN/100 mL	Median <539	490	✓	✓	✓		
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.025	✓	✓	✓		
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.35	✗	✗	✗		

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Ahuroa at Braigh Flats over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Awanui at FNDC

## Water Quality Report Card for 2024

### Site description

The Awanui River originates from Raetea Forest and meanders north for a significant distance through pastoral land and the Kaitaia Township, eventually flowing into the Ranganui Harbour. The site is on private farmland just upstream of Kaitaia and is the source of the towns residential water supply.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.007	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.03	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	1.30	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	260	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.015	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.04	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	21.7	A	A	A	A	

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Awanui at FNDC over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Hakaru at Topuni

## Water Quality Report Card for 2024



### Site description

The Hakaru River originates in native and pine forest in the Brynderwyn hills and flows south through farmland until it reaches the Topuni River. The Topuni River feeds into an arm of the Kaipara Harbour.



### Summary

Nutrient levels are generally high at this site, particularly during wet winter months. This is likely due to nutrient and sediment runoff following rain events.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.014	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.25	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.18	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	160	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.048	✗	✗	✗	✗	✗
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.28	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	82.2	B	B	B	B	B

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Hakaru at Topuni over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Hātea at AH Reed Park

## Water Quality Report Card for 2024



### Site description

The Hātea River begins as the Waitaua Stream which originates north of Te Kamo and flows southeast through Tikipunga and Mair Park into Whangārei Harbour. The site is located by Whareora Road, downstream of Whangarei Falls but before Pompallier Park.

### Summary

CHECK 2022 DATA - New site is ID 331352; data showing is from old Mair Park site

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.007	✓	✓	✓	✓	✗
Nitrite-N	g/m3	Median <0.11	0.37	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	2.31	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	330	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.008	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.37	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	11.5	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Hātea at AH Reed Park over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Hatea at Whangarei Falls

## Water Quality Report Card for 2024

### Site description

The Hatea River begins as the Waitaua Stream which originates north of Te Kamo. The stream flows southeast through Tikipunga and over Whangarei Falls before flowing through Mair Park and into Whangārei Harbour. The upper catchment contains some mixed beef and sheep farming; the majority of the catchment is a mix of lifestyle blocks and urban areas.



### Summary

This site exceeded the Ecoli Water Quality Index standard. This site also has frequently exceeding Nitrate-N and Dissolved Inorganic Nitrogen levels. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.006	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.39	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.60	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	670	✗	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.008	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.39	✗	✗	✗	✗	✗

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Hatea at Whangarei Falls over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Kaeo at Dip Road\*\*

## Water Quality Report Card 2022



### Site description

The Kāeo River begins north of Waipapa and flows north into the Whangaroa Harbour. Just under half of the catchment is native forest and scrub, with the remainder in pine forestry, lifestyle blocks or pastoral farming. The site is located below the township of Kāeo, just before the influence of salt water.



### Summary

This site exceeded all Water Quality Index parameters apart from Dissolved Reactive Phosphorus in 2022. Exceedances in 2022 may correlate with more frequent and stronger rain events. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits.

### Find out more at

#### Water Quality Index - Poor

Parameter	Unit	Standard	Result 2022	Status				
				2022	2021	2020	2019	2018
Ammonical-N	g/m3	Median <0.01	0.013	✗	✓	✓	✓	✓
Nitrate-N	g/m3	Median <0.1	0.13	✗	✓	✓	✓	✓
Visual Clarity	m	Median >0.89	0.57	✗	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <703	1150	✗	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.051	0.009	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.1	0.14	✗	✓	✓	✓	✓

#### Ecological Health

Parameter	Standard	Result 2022
Macroinvertebrate Community Index	Poor <90	81.3
Periphyton Score	Excellent ≤50	19.4

\*The periphyton value is derived from a 3-yearly rolling 92nd percentile. The MCI value is scored from one year of sampling. All grading is based on the values set in the National Policy Statement for Freshwater 2020.

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kaeo at Dip Road\*\* for the past 5 years. The median for each 12-month period per calendar year is assessed against the latest regional Water Quality Index, Macroinvertebrate Community Index and Periphyton Scores. A tick indicates an achieved standard and a cross a not-achieved standard. The current Water Quality Index is based on the number of achieved standards.

If you would like to find out more about Northland's water quality visit our Environmental Data Hub at

[www.nrc.govt.nz/environment/environmental-data/environmental-data-hub/](http://www.nrc.govt.nz/environment/environmental-data/environmental-data-hub/)

Or to find out more about water quality parameters at [www.lawa.org.nz/explore-data/river-quality/](http://www.lawa.org.nz/explore-data/river-quality/)

# Kaeo River at Below Fire Station

## Water Quality Report Card for 2024



### Site description

The Kaeo River begins north of Waipapa and flows north into Whangaroa Harbour. Just under half the catchment is native forest and scrub, with the remainder in pine forestry, lifestyle blocks or pastoral farming. The site is located below the fire station near the middle of town, up above the influence of salt water.



### Summary

Ecoli and visual clarity exceeded the Water Quality Index standard. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.009	✓				
Nitrite-N	g/m3	Median <0.11	0.00	✓				
Visual Clarity	m	Median >0.97	0.49	✗				
E.coli	MPN/100 mL	Median <539	670	✗				
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.005	✓				
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.01	✓				

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM						

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kaeo River at Below Fire Station over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Kaihu at Gorge

## Water Quality Report Card for 2024

### Site description

The Kaihū River originates in native forest to the west of Trounson Kauri Park and flows through pastoral farm land before it discharges into the Wairoa River in Dargaville. The river at this site is in a deep gully with native riparian margins.



### Summary

Nitrate-N and Dissolved Inorganic Nitrogen levels are generally high at this site.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.17	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	2.03	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	170	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.18	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	31.2	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kaihu at Gorge over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Kerikeri River at Golf View Road

## Water Quality Report Card for 2024

### Site description

The Kerikeri River rises in the Puketi Forest and flows east to discharge into the Kerikeri Inlet. The site is located along the Kerikeri River Track, upstream of the historic Stone Store.



### Summary

Nitrate-N and Dissolved Inorganic Nitrogen exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.006	✓	✓	✓		
Nitrite-N	g/m3	Median <0.11	0.52	✗	✗	✗		
Visual Clarity	m	Median >0.97	2.38	✓	✓	✓		
E.coli	MPN/100 mL	Median <539	275	✓	✓	✓		
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓	✓		
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.54	✗	✗	✗		

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	78.2	B	B			

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Kerikeri River at Golf View Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Mangahahuru at Main Road

## Water Quality Report Card for 2024

### Site description

The Mangahahuru Stream - which begins in pine forest to the southeast of Hikurangi - is a small tributary of the Wairua River. The site is situated on private farmland.



### Summary

Ammonical-N, Nitrate-N and Dissolved Inorganic Nitrogen levels are generally high at this site.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.010	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.18	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.25	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	460	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.008	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.18	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	4.5	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mangahahuru at Main Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Mangakahia at Titoki

## Water Quality Report Card for 2024

### Site description

The Mangakahia River originates in native bush near Waipoua Forest and flows southwest through predominantly low-lying agricultural farmland until it reaches the Wairoa River.



### Summary

Visual clarity exceeded the Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Good								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.009	✓	✗	✗	✗	✓
Nitrite-N	g/m3	Median <0.11	0.07	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	0.75	✗	✗	✓	✓	✓
E.coli	MPN/100 mL	Median <539	275	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.009	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.08	✓	✓	✓	✓	✓

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mangakahia at Titoki over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Mangakahia at Twin Bridges

## Water Quality Report Card for 2024



### Site description

This site is located just downstream of the twin bridges where the Awarua River meets the Mangakahia River. This catchment is dominated by pastoral farming and forestry land use.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.03	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	1.89	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	160	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.03	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	28.6	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mangakahia at Twin Bridges over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Manganui at Mititai Road

## Water Quality Report Card for 2024



### Site description

The Manganui is a major tributary into the Wairoa River, flowing from the western fringes of the Māreretu Forest to join the Wairoa just east of Dargaville. Routine monitoring started at this site in March 2021.



### Summary

Ammonical-N, Nitrate-N, Dissolved Inorganic Nitrogen and visual clarity levels exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.023	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.14	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	0.45	✗	✗	✗	✗	✗
E.coli	MPN/100 mL	Median <539	155	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.034	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.17	✗	✗	✗	✗	✗

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Manganui at Mititai Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Mangere at Knight Road

## Water Quality Report Card for 2024



### Site description

The Mangere River is a low-lying, sluggish tributary feeding into the Wairua River. The river flows through a mostly intensive agricultural catchment and begins as the Mangere Stream, which flows east out of Whangarei's Pukenui Forest. It becomes a river on the flats before joining the Wairoa River just west of Kokopu. For the most part, soft sedimentary rocks make up the underlying geology.



### Summary

Ammonical-N, Nitrate-N, Dissolved Inorganic Nitrogen, visual clarity levels and Ecoli exceeded the Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.036	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.68	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	0.85	✗	✓	✗	✓	✓
E.coli	MPN/100 mL	Median <539	735	✗	✗	✗	✗	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.043	✗	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.75	✗	✗	✗	✗	✗

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Mangere at Knight Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Ngunguru at Coalhill Lane

## Water Quality Report Card for 2024

### Site description

The Ngunguru River originates in Waipaipai to the west of the Tutukaka Coast and flows through the Glenbervie forest out into the Ngunguru Estuary.



### Summary

Nitrate-N and Dissolved Inorganic Nitrogen exceeded the water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

### Water Quality Index - Fair

Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.007	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.12	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.63	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	270	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.011	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.12	✗	✗	✗	✗	✗

### Ecological Health

Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	16.0	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Ngunguru at Coalhill Lane over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Northern Wairoa at Pukehuia Road

## Water Quality Report Card for 2024



### Site description

The Wairoa River runs for 150 kilometers and is the longest river in the Northern Region. The river flows predominantly through low lying agricultural farm land before discharging into the northern end of the Kaipara Harbour. Routine monitoring commenced at this site in November 2021.



### Summary

Ammonical-N, Nitrate-N, Dissolved Inorganic Nitrogen levels and visual clarity exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.033	✗	✗	✗		
Nitrite-N	g/m3	Median <0.11	0.34	✗	✗	✗		
Visual Clarity	m	Median >0.97	0.19	✗	✗	✗		
E.coli	MPN/100 mL	Median <539	385	✓	✓	✓		
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.030	✓	✓	✓		
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.37	✗	✗	✗		

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Northern Wairoa at Pukehuia Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Opouteke at Suspension Bridge

## Water Quality Report Card for 2024

### Site description

The Opouteke site is situated on a dairy farm. The river drains through predominantly pine forest and a small area of pasture before reaching the Mangakāhia River.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.04	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	2.34	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	200	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.05	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	26.0	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Opouteke at Suspension Bridge over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Oruaiti at Windust Road

## Water Quality Report Card for 2024



### Site description

The Oruaiti River flows through predominately pastoral land and pockets of forestry blocks. It then flows out into the Mangonui Harbour and Doubtless Bay.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.005	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.02	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	1.85	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	235	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.009	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.03	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	10.8	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Oruaiti at Windust Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Oruru at Oruru Road

## Water Quality Report Card for 2024



### Site description

The Oruru River originates from the Otangaroa Forest and flows north through native forest and scrub. In the lower catchment, the river meanders through pastoral dominated land before flowing out into the Taipa River.

### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.007	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.05	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	1.27	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	360	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.027	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.06	✓	✓	✓	✓	✓

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Oruru at Oruru Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Otaika at Otaika Valley Road

## Water Quality Report Card for 2024

### Site description

The Otaika Stream originates near the settlement of Maungatāpere and flows eastwards. The site is located off Otaika Valley Road, bordering the Te Wai-iti forest, which consists mainly of regenerating kauri, tanekaha, and totara.



### Summary

Nitrate-N, Dissolved Inorganic Nitrogen and Ecoli exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.008	✓	✓	✓	✗	✗
Nitrite-N	g/m3	Median <0.11	1.03	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.25	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	713	✗	✗	✗	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.015	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	1.07	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	23.0	A	A	A	A	B

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Otaika at Otaika Valley Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Paparoa Stream at Paparoa Oakleigh Road

## Water Quality Report Card for 2024



### Site description

The Paparoa Stream flows through Paparoa township before discharging into the Paparoa Creek, which joins the Arapaoa River which feeds into the Kaipara Harbour. The site is located north of Paparoa.



### Summary

Ammonical-N exceeded the Water Quality Index standard. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Good								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.011	✗	✗	✓		
Nitrite-N	g/m3	Median <0.11	0.07	✓	✓	✗		
Visual Clarity	m	Median >0.97	1.06	✓	✓	✓		
E.coli	MPN/100 mL	Median <539	385	✓	✓	✓		
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.024	✓	✓	✓		
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.08	✓	✓	✗		

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Paparoa Stream at Paparoa Oakleigh Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Parapara at Taumata Road

## Water Quality Report Card 2022



### Site description

The Parapara Stream flows through lower hill country and converges at Aurere with the Aurere Stream to form the tidal Awapoko River.

### Summary

Site is no longer monitored.

### Find out more at

#### Water Quality Index - Poor

Parameter	Unit	Standard	Result 2022	Status				
				2022	2021	2020	2019	2018
Ammonical-N	g/m3	Median <0.01	0.032	✗	✓	✗	✗	✗
Nitrate-N	g/m3	Median <0.1	0.08	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.89	0.49	✗	✗	✓	✓	✗
E.coli	MPN/100 mL	Median <703	1100	✗	✗	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.051	0.015	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.1	0.11	✗	✗	✗	✓	✓

#### Ecological Health

Parameter	Standard	Result 2022
Macroinvertebrate Community Index	N/A	N/A
Periphyton Score	N/A	N/A

\*The periphyton value is derived from a 3-yearly rolling 92nd percentile. The MCI value is scored from one year of sampling. All grading is based on the values set in the National Policy Statement for Freshwater 2020.

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Parapara at Taumata Road for the past 5 years. The median for each 12-month period per calendar year is assessed against the latest regional Water Quality Index, Macroinvertebrate Community Index and Periphyton Scores. A tick indicates an achieved standard and a cross a not-achieved standard. The current Water Quality Index is based on the number of achieved standards.

If you would like to find out more about Northland's water quality visit our Environmental Data Hub at

[www.nrc.govt.nz/environment/environmental-data/environmental-data-hub/](http://www.nrc.govt.nz/environment/environmental-data/environmental-data-hub/)

Or to find out more about water quality parameters at [www.lawa.org.nz/explore-data/river-quality/](http://www.lawa.org.nz/explore-data/river-quality/)

# Peria at Honeymoon Valley US Dutton Rd

## Water Quality Report Card for 2024



### Site description

The Peria River flows north from its origins in the Maungatanuwha Range before feeding into the Oruru River. The site is located upstream of Honeymoon Valley.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓		
Nitrite-N	g/m3	Median <0.11	0.03	✓	✓	✓		
Visual Clarity	m	Median >0.97	2.10	✓	✓	✓		
E.coli	MPN/100 mL	Median <539	120	✓	✓	✓		
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.040	✓	✓	✓		
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.03	✓	✓	✓		

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	6.6	A	A	A		

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Peria at Honeymoon Valley US Dutton Rd over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Pukenui at Kanehiana Drive



## Water Quality Report Card for 2024

### Site description

The Waiarohia Stream catchment is small (18 km<sup>2</sup>) and originates in Whangarei's Pukenui Forest. The upper catchment is mainly native forest with some pine forest. The stream flows through a small area of low intensity farmland (mostly lifestyle blocks) before it reaches residential housing and the central business district of Whangarei. This site is located within the Pukenui Forest.

### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.10	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	1.52	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	250	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.012	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.10	✓	✓	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	2.3	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Pukenui at Kanehiana Drive over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Punakitere at Taheke

## Water Quality Report Card for 2024

### Site description

The Punakitere River originates from a wetland southwest of Kaikohe and is a major tributary of the Waima River (which flows into the Hokianga Harbour). This site is located on private farmland and is fenced with a native riparian margin. The stream flows through a variety of pastoral farm land and past forestry blocks further upstream.



### Summary

Nitrate-N and Dissolved Inorganic Nitrogen exceeded the Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.010	✓	✓	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.41	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.33	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	380	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.018	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.44	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	25.1	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Punakitere at Taheke over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Punaruku at Russell Road

## Water Quality Report Card for 2024



### Site description

The Punaruku stream flows through 100% native forest. This site is used as a reference site because it has minimal human influences.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.03	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	2.66	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	75	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.03	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Periphyton Score	mg chl-a/m2	NPSFM	5.0	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Punaruku at Russell Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Raumanga at Bernard Street

## Water Quality Report Card for 2024



### Site description

The Raumanga Stream has three main tributaries (Te Hihi, Nihotetea, and Waiponamu streams), which drain predominately rural lifestyle areas before flowing through the suburb of Raumanga and into the Whangarei Harbour.

### Summary

Nitrate-N and Dissolved Inorganic Nitrogen levels exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.007	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.96	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	2.01	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	520	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.013	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.97	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	4.7	A	A	A	A	

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Raumanga at Bernard Street over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Ruakaka at Flyger Road\*

## Water Quality Report Card for 2024

### Site description

The Ruakākā river flows east through predominately lowland pastoral land and forestry blocks. The Bream Bay catchment feeds the Ruakākā river and drains into Ruakākā estuary.



### Summary

All Water Quality Index standards were exceeded at this site. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.033	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.44	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	0.73	✗	✗	✗	✓	✓
E.coli	MPN/100 mL	Median <539	730	✗	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.084	✗	✗	✗	✗	✗
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.48	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	31.8	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Ruakaka at Flyger Road\* over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Takou River at Below Ford

## Water Quality Report Card for 2024

### Site description

The Takou River catchment is nestled between Matauri Bay and Taronui Bay and East of SH1. It is predominately pastoral land with large areas of native forest and some small pockets of exotic forestry.



### Summary

Nitrite-N and Dissolved Inorganic Nitrogen exceeded Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.008	✓	✓			
Nitrite-N	g/m3	Median <0.11	0.27	✗	✗			
Visual Clarity	m	Median >0.97	1.91	✓	✓			
E.coli	MPN/100 mL	Median <539	200	✓	✓			
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.013	✓	✓			
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.28	✗	✗			

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM						

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Takou River at Below Ford over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Tangowahine at Tangowahine Valley Road

## Water Quality Report Card for 2024



### Site description

The Tangowahine Stream flows south through mainly pastoral and dairying farmland before joining the Wairoa River, which then flows into the northern end of the Kaipara Harbour.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.009	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.05	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	0.98	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	440	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.010	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.07	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	11.0	A	A	A	A	

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Tangowahine at Tangowahine Valley Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Tapapa at SH1

## Water Quality Report Card for 2024

### Site description

The Tapapa Stream is a tributary of the Mangamuka River which drains into the Hokianga Harbour. The surrounding catchment is dominated by the native forest of the Maungataniwha Range.

Multiple large scale slips have led to road closures and elevated sediment loads in the catchment.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.04	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	2.28	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	120	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.032	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.04	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	4.8	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Tapapa at SH1 over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Toatoa Stream at Parapara

## Water Quality Report Card for 2024

### Site description

The Parapara Stream flows through lower hill country and covers at Aurere with the Aurere Stream to form the tidal Awapoko.



### Summary

Ammonical-N exceeded the Water Quality Index standard. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Good								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.010	✗	✓			
Nitrite-N	g/m3	Median <0.11	0.01	✓	✓			
Visual Clarity	m	Median >0.97	1.00	✓	✓			
E.coli	MPN/100 mL	Median <539	240	✓	✓			
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.010	✓	✓			
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.02	✓	✓			

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Toatoa Stream at Parapara over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Utakura at Okaka Road

## Water Quality Report Card for 2024



### Site description

The Utakura River flows westward through pastoral farmland before joining the Waihou River, which feeds into the Hokianga Harbour.



### Summary

Ammonical-N, Nitrate-N and Dissolved Inorganic Nitrogen exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.012	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.17	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.07	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	285	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.011	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.19	✗	✗	✗	✗	✗

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Utakura at Okaka Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Victoria at Victoria Valley Road

## Water Quality Report Card for 2024

### Site description

The Victoria River begins in the Raetea Forest and flows north through pastoral land before joining the Awanui River near Kaitaia.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.01	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	1.91	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	250	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.019	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.02	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	6.7	A	A	A	A	B

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Victoria at Victoria Valley Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Waiarohia at Second Avenue

## Water Quality Report Card for 2024

### Site description

The Waiarohia Stream flows through a small area of low intensity farmland (mostly lifestyle blocks), before it reaches residential housing and the central business district of Whangārei, where this site is located.



### Summary

Nitrate-N, Dissolved Inorganic Nitrogen and Ecoli exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.007	✓	✓	✓	✗	✗
Nitrite-N	g/m3	Median <0.11	0.33	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	2.32	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	570	✗	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.010	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.36	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	19.5	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waiarohia at Second Avenue over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Waiaruhe at Puketona

## Water Quality Report Card for 2024



### Site description

The Waitangi River catchment is 302 kilometers<sup>2</sup>, and the river is 37 km long. It originates just east of Lake Ōmāpere and flows east towards Haruru before entering the Bay of Islands coastal area. The Waiaruhe River is a major tributary of the Waitangi River and begins in the Ngāwhā Springs catchment.



### Summary

Ammonical-N, Nitrate-N and Dissolved Inorganic Nitrogen levels exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

### Water Quality Index - Fair

Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.020	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.26	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.11	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	295	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.010	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.28	✗	✗	✗	✗	✗

### Ecological Health

Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	10.4	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waiaruhe at Puketona over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Waiharakeke at Stringers Road

## Water Quality Report Card for 2024

### Site description

The Waiharakeke Stream is a major tributary of the Kawakawa River, which flows into the Waikara Inlet in the Bay of Islands. The Waiharakeke catchment is large (25 km<sup>2</sup>) and is approximately 53 km long. It begins as the Horahora Stream, which originates in the Motatau Forest and meanders northwest towards Moerewa.



### Summary

Ammonical-N and Visual Clarity exceeded the water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.015	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.07	✓	✓	✓	✓	✗
Visual Clarity	m	Median >0.97	0.54	✗	✗	✗	✓	✓
E.coli	MPN/100 mL	Median <539	280	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.015	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.08	✓	✓	✓	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	11.9	A	A	A	A	

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waiharakeke at Stringers Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Waimamaku at SH12

## Water Quality Report Card for 2024



### Site description

The Waimamaku River begins north of the Waipoua Forest and flows west through the Waimamaku township, eventually reaching the West Coast, south of the Hokianga Harbour. The sampling site is located in the lower reaches of the river on private farmland past the Waimamaku township.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.00	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	2.07	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	290	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.005	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.01	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	17.6	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waimamaku at SH12 over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Waiotu at SH1

## Water Quality Report Card for 2024

### Site description

The Waiotu River originates in the hills to the northeast of State Highway One, between Kawakawa and Whangārei, and runs into the Whakapara River to form the greater Wairua River. The site is on private farmland and forms part of the Hikurangi Swamp Flood Control Scheme.



### Summary

Ammonical-N, Nitrate-N and Dissolved Inorganic Nitrogen levels exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.020	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.30	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.00	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	365	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.019	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.32	✗	✗	✗	✗	✗

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waiotu at SH1 over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Waipao at Draffin Road

## Water Quality Report Card for 2024

### Site description

The Waipao Stream begins as the Kauritutahi Stream west of Maungatāpere. The Kauritutahi Stream becomes Waipao River as it flows west towards Poroti.



### Summary

Nitrate-N and Dissolved Inorganic Nitrogen exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.009	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	2.30	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.85	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	380	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.026	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	2.31	✗	✗	✗	✗	✗

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipao at Draffin Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Waipapa at Doonside Road

## Water Quality Report Card for 2024

### Site description

The Waipapa Stream is fed by Lake Manuwai and flows east into the Kerikeri Inlet. The stream passes through a mixture of land use types, including pastoral, horticultural (orchards) and lifestyle blocks. The underlying geology is predominantly acidic volcanic.



### Summary

Nitrate-N and Dissolved Inorganic Nitrogen exceeded the Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.006	✓	✓	✓		
Nitrite-N	g/m3	Median <0.11	0.23	✗	✗	✗		
Visual Clarity	m	Median >0.97	2.19	✓	✓	✓		
E.coli	MPN/100 mL	Median <539	210	✓	✓	✓		
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.004	✓	✓	✓		
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.23	✗	✗	✗		

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	24.4	A	A	B		

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipapa at Doonside Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Waipapa at Forest Ranger

## Water Quality Report Card for 2024

### Site description

The surrounding catchment is predominantly native forest with some small pockets of pine forest in the headwaters of the catchment. The Waipapa River is classified as pristine with excellent water quality. The geology is soft sedimentary. This monitoring site is located at the Department of Conservation camping area at the end of Forest Road. Water quality is monitored by NIWA as part of the national water quality monitoring programme and



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.01	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	3.13	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	63	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.01	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	7.0	A	A	A		

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipapa at Forest Ranger over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Waipoua at SH12

## Water Quality Report Card for 2024



### Site description

The headwaters of the Waipoua River run through a small area of pastoral land before flowing through the Waipoua Forest. The river then flows through an area of pine forest before reaching Northland's west coast. The river cuts through volcanic soils and has a predominantly native forest catchment which is 65 km<sup>2</sup> and 31 km long.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result				
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.01	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	2.16	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	63	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.005	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.02	✓	✓	✓	✓	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result				
Periphyton Score	mg chl-a/m2	NPSFM	1.8	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waipoua at SH12 over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Wairau at SH12

## Water Quality Report Card for 2024



### Site description

The Wairau River has a catchment dominated by native forest. This site is used as a reference site. The river flows westward, ultimately reaching Northland's west coast.



### Summary

This site achieved all Water Quality Index standards.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Excellent								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.003	✓	✓	✓	✓	✓
Nitrite-N	g/m3	Median <0.11	0.00	✓	✓	✓	✓	✓
Visual Clarity	m	Median >0.97	1.65	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	75	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.004	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.01	✓	✓	✓	✓	✓

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Wairau at SH12 over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Wairoa Stream at Ahipara

## Water Quality Report Card for 2024

### Site description

The Wairoa Stream is fed by the Wainui Stream, which originates in the Herekino Forest. After flowing through this native forest, the stream runs through pastoral land before ultimately discharging into Ahipara Bay on Northland's west coast.



### Summary

Ammonical-N exceeded the Water Quality Index standard.

Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Good								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	Result
Ammonical-N	g/m3	Median <0.01	0.013	✗	✗			
Nitrite-N	g/m3	Median <0.11	0.02	✓	✓			
Visual Clarity	m	Median >0.97	1.21	✓	✓			
E.coli	MPN/100 mL	Median <539	480	✓	✓			
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓			
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.03	✓	✓			

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Wairoa Stream at Ahipara over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

<https://www.nrc.govt.nz/resource-library-summary/research-and-reports/rivers-and-streams/water-quality-index-methodol>

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# Wairua at Purua

## Water Quality Report Card for 2024



### Site description

The Wairua River originates above Whangārei and flows southwest into the Kaipara Harbour. It is one of the major tributaries of the Wairoa River. The catchment upstream of the sampling site is predominantly pastoral land. The river cuts through hard sediments along a low gradient.



### Summary

Ammonical-N, Nitrate-N, Dissolved Inorganic Nitrogen and visual clarity exceeded the Water Quality Index standard. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.041	✗	✗	✗	✗	✗
Nitrite-N	g/m3	Median <0.11	0.35	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	0.63	✗	✓	✗	✓	✓
E.coli	MPN/100 mL	Median <539	225	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.025	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.39	✗	✗	✗	✗	✗

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Wairua at Purua over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Waitangi at Waimate North Road

## Water Quality Report Card for 2024

### Site description

The Waitangi River originates east of Lake Ōmāpere and flows into the Bay of Islands. This sampling site is in the mid reaches of the Waitangi catchment, above the confluence of the Waitangi and Waiaruhe rivers. The sampling site is located on private farmland.



### Summary

Nitrite-N and Dissolved Inorganic Nitrogen continue to exceed Water Quality Index standards. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Fair								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.009	✓	✓	✓	✗	✗
Nitrite-N	g/m3	Median <0.11	0.33	✗	✗	✗	✗	✗
Visual Clarity	m	Median >0.97	1.09	✓	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	435	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.006	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.33	✗	✗	✗	✗	✗

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	10.2	A	A	A	A	A

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waitangi at Waimate North Road over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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# Waitangi at Wakelins

## Water Quality Report Card for 2024

### Site description

The Waitangi River originates east of Lake Ōmāpere and flows into the Bay of Islands. This sample site has a soft-bottomed geology and is surrounded by suburban and pastoral land.



### Summary

Ammonical-N, Nitrate-N, Dissolved Inorganic Nitrogen and visual clarity exceeded the Water Quality Index standard. Keeping stock away from waterways helps to reduce the amount of sediment, nutrients and harmful faecal bacteria that enters the waterways. Planting the riparian margins helps to filter surface runoff and take up nutrients as well as having many other benefits. Soil erosion can be prevented or reduced by improving the way the land is used, by planting trees, or by allowing native bush to grow in areas that are at risk from erosion.

Water Quality Index - Poor								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Ammonical-N	g/m3	Median <0.01	0.011	✗	✗	✓	✗	✓
Nitrite-N	g/m3	Median <0.11	0.25	✗	✗	✗	✗	✓
Visual Clarity	m	Median >0.97	0.95	✗	✓	✓	✓	✓
E.coli	MPN/100 mL	Median <539	290	✓	✓	✓	✓	✓
Dissolved Reactive Phosphorus	g/m3	Median <0.043	0.011	✓	✓	✓	✓	✓
Dissolved Inorganic Nitrogen	g/m3	Median <0.11	0.27	✗	✗	✗	✗	✓

Ecological Health								
Parameter	Unit	Standard	2024		2023	2022	2021	2020
			Median	Result	Result	Result	Result	
Periphyton Score	mg chl-a/m2	NPSFM	27.0	A				

### Disclaimer

This report card provides a snapshot of the water quality and ecological health at Waitangi at Wakelins over the past 5 years. The median for each 12-month period per hydrological year (i.e., 1 July 2023 - 30 June 2024) is assessed against the latest regional Water Quality Index and Periphyton Scores. A tick indicates an achieved standard while a cross indicates a not-achieved standard. The current regional Water Quality Index is based on the number of achieved standards.

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