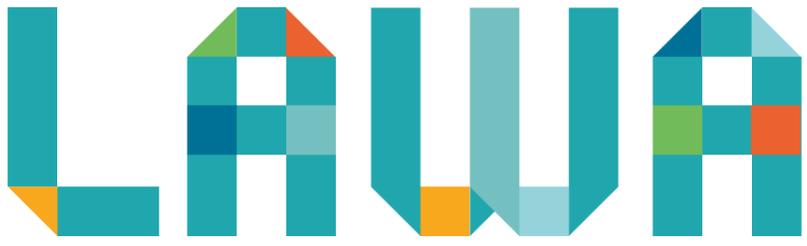


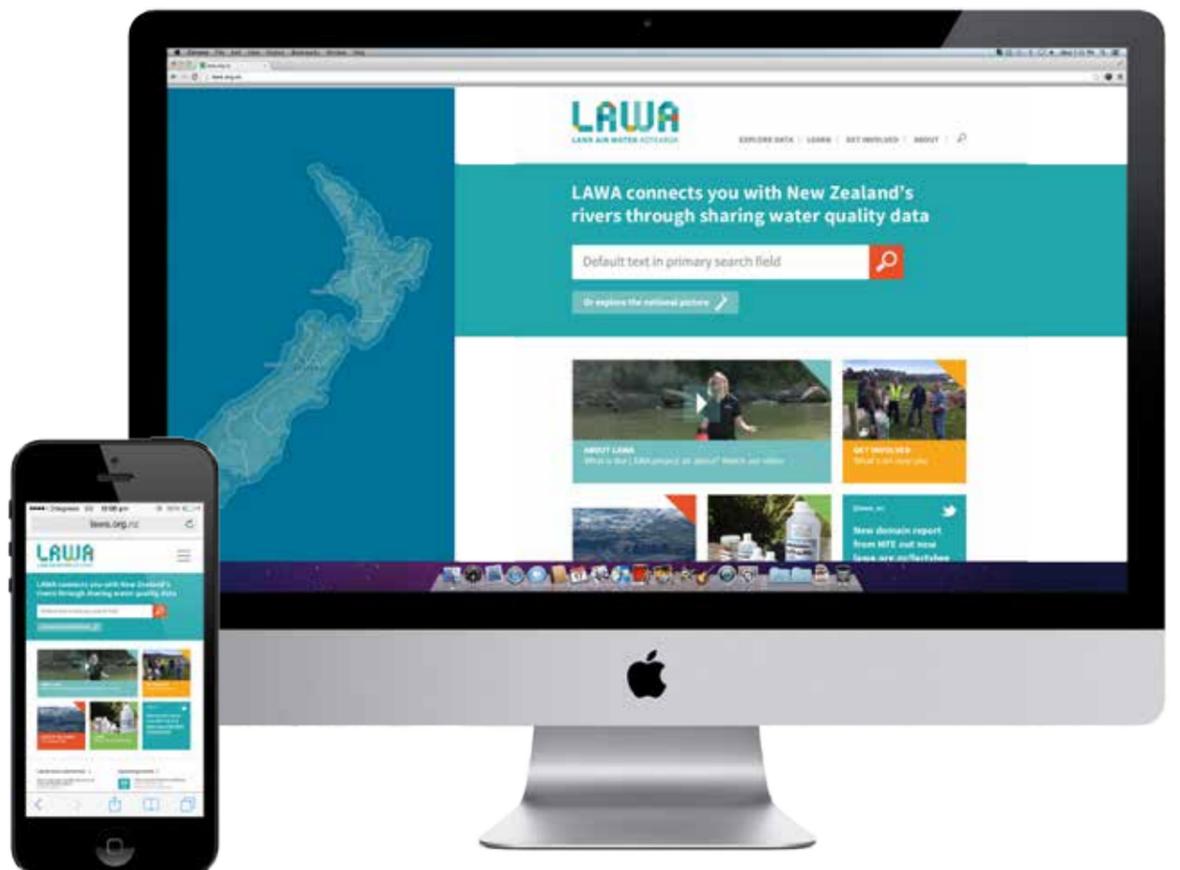


LAWA
LAND AIR WATER AOTEAROA

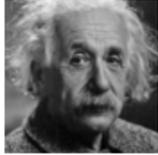


LAND AIR WATER AOTEAROA

**Connecting communities with
New Zealand's rivers through
sharing water quality data**



Guiding principles



“ Everything as simple as it can be, but not simpler!

Attributed to **Albert Einstein**

Explain data well, but never dumb down



“ Overview first, zoom and filter, then details on demand

Ben Shneiderman*

Give the user access to the information they need when they need it; do not overwhelm with information

*The Eyes Have It: A Task by Data Type Taxonomy for Information Visualizations.
In Proceedings of the IEEE Symposium on Visual Languages, 1996

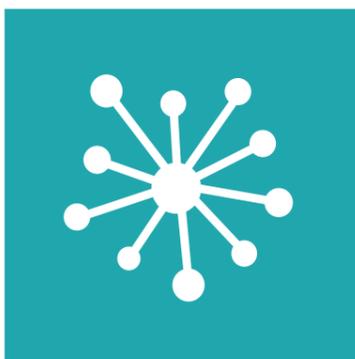
LAWA will



Improve public awareness of freshwater quality issues through access to data and contextualising information



Provide robust and credible environmental information verified by scientists



Become the hub for freshwater, with information for the public, scientists, policymakers and other water users

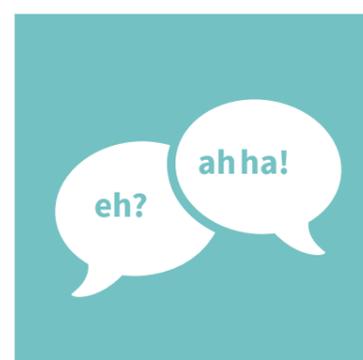


Have an attractive, user friendly interface, accessible across different devices

by



Filtering the vast amount of info available into digestible chunks so users are not overwhelmed



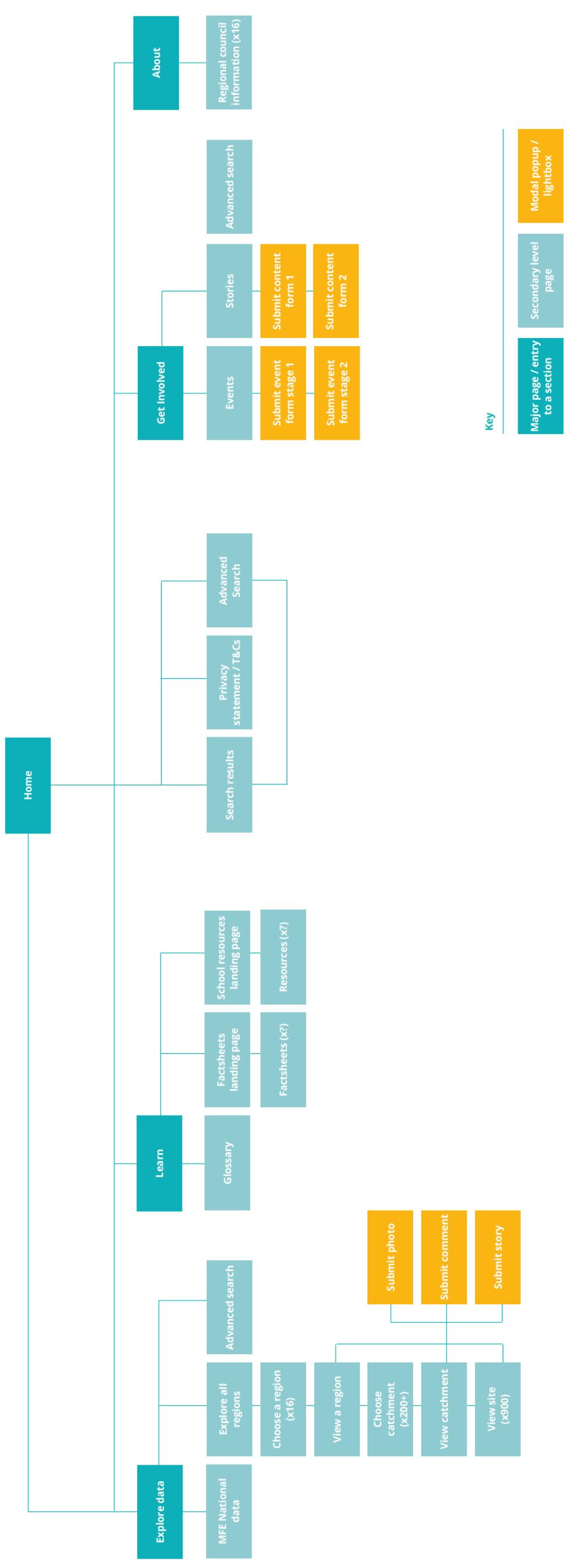
'Translating' scientific data so it is clear for a lay user, with complex terms explained



Ensuring that the structure makes the right information available for the user at the right time (drilldown)



Using recreation information, stories, factsheets and events to contextualise, inform and engage



LAWA connects you with New Zealand's rivers through sharing water quality data

Default text in primary search field



Or explore the national picture



ABOUT LAW A
What is the LAW A project all about? Watch our video



GET INVOLVED
What's on near you



RIVER OF THE MONTH
The Rakaia River



LEARN
Check out our factsheets



@lawa_nz
New domain report from MFE out now
lawa.org.nz/factsheet/mfe/domain

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Palmerston North Massey Campus

16 FEB **Planting Day**
Friends of the Waikato
Bridge Car Park, Hamilton

2 MAR **Public Meeting, Tukituki Dam Project**
Hawkes Bay Regional Council
Council Officers, Napier

Submit an event

Report river observation

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Share LAW A

CONTACT

Website or general enquiries:
info@lawa.org.nz
Facebook
Twitter

For enquiries about monitoring or sites, please contact the relevant council directly. For council details see About LAW A.

EXPLORE DATA

National picture
Explore Regions
Search

LEARN

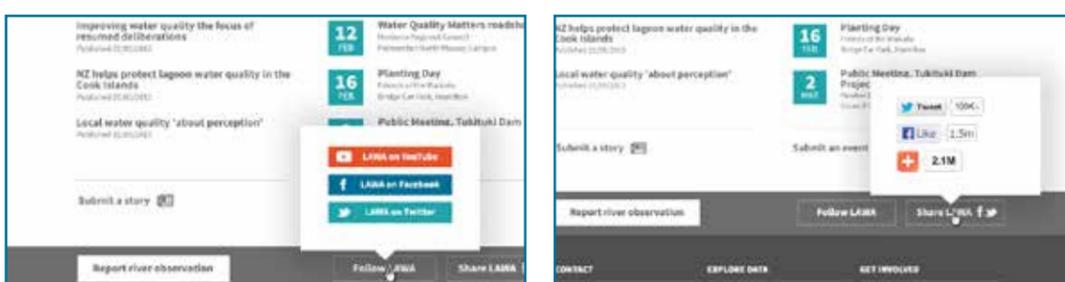
Factsheets
Glossary

GET INVOLVED

News and stories
Events
Submit photo/story/event

ABOUT

About the LAW A project



Homepage

The main landing page for the website. Search box gives direct way for a user to jump to their area, and feature boxes signpost the user to interesting content in each section. Left, popups for social media share and follow. Footer aids navigation and lets users report a river observation direct to councils.

← Explore data

New Zealand

New Zealand's freshwater resources are managed by 16 regional councils or unitary authorities. These bodies collect data on the quality of the water in their region.

Regions **16**

Scientific indicators

National picture

Select a region in New Zealand



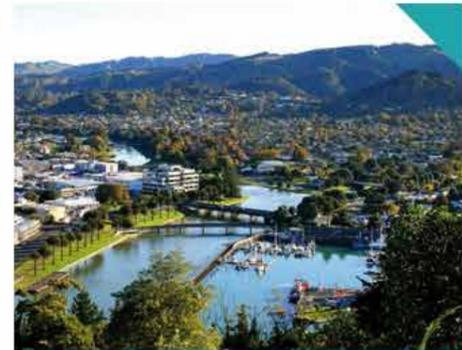
AUCKLAND
31 catchments



BAY OF PLENTY
31 catchments



CANTERBURY
31 catchments



GISBORNE
31 catchments



HAWKE'S BAY
31 catchments



MANAWATU-WANGANUI
31 catchments

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EXPLORE DATA

National picture
Explore Regions
Search

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National level navigation dashboard

This page allows a user to jump to the region they are interested in. The map also acts as a navigational device. Dashboard shows images from each section. Tabs allow the

user to view scientific – or ‘national picture’ – information provided by the Ministry for the Environment (MfE).

Manawatu-Wanganui region

The Manawatu-Whanganui region is governed by Horizons Regional Council. It covers a vast area with a diverse landscape. The region covers a large part of the North Island.

[Read more](#) +

Catchments **8**

Scientific indicators

Catchment areas in this region



AKITO RIVER
50 sites



LAKE HOROWHENUA
24 sites



MANAWATU RIVER
108 sites



MOWHANAU
50 sites



OHAU
24 sites



OWHANGA
108 sites



RANGITKEI
50 sites



TAUTANE
24 sites



TURAKINA
108 sites

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2 MAR **Public Meeting, Tukituki Dam Project**
Hawkes Bay Regional Council
Council Officers, Napier

[Submit an event](#) 📅



Manawatu-Wanganui Regional council
[Click for more info](#)

Related links

- [In season water quality monitoring](#) 📄
- [Water quality at popular swimming spots](#) 📄
- [Summary of the Our Manawatu River Leaders' Accord action plan](#) 📄

Regional level navigation dashboard

Selecting a region from the map or national level page takes the user to a region page. This tab shows all the catchments in the region, with thumbnail images. Footer shows news and events

relevant to the region. Regional council logo in the footer links to content about the council in question. Introductory content can expand for more detailed information (see next page).

← Explore data

Manawatu-Wanganui region

The Manawatu-Whanganui region is governed by Horizons Regional Council. It covers a vast area with a diverse landscape. The region covers a large part of the North Island.

Hide —

Area: 22,215 km²
Largest city: Palmerston North

Proin lobortis euismod ipsum, iaculis gravida sem pharetra ut. Vestibulum enim urna, facilisis quis egestas eu, molestie in risus. Ut interdum ut elit id ultricies. Phasellus ut ullamcorper ligula.

Pellentesque egestas turpis et risus fermentum accumsan. Mauris iaculis eros ut ligula scelerisque, vel facilisis odio dapibus. Maecenas a mattis tellus, sit amet tincidunt enim. Fusce bibendum sapien vitae purus dapibus dignissim. Vestibulum pellentesque luctus sapien, ac egestas orci aliquam commodo. Ut quis laoreet purus.

History +

Geography +

Catchments 8

Scientific indicators

Catchment areas in this region



AKITO RIVER
50 sites



LAKE HOROWHENUA
24 sites



MANAWATU RIVER
108 sites



MOWHANAU
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OHAU
24 sites



OWHANGA
108 sites



RANGITIKEI
50 sites



TAUTANE
24 sites



TURAKINA
108 sites

Regional level navigation dashboard (expanded content)

Councils can add detailed information about the region that can be expanded by users.

← Explore data /

Manawatu-Wanganui region

The Manawatu-Whanganui region is governed by Horizons Regional Council. It covers a vast area with a diverse landscape. The region covers a large part of the North Island.

[Read more +](#)

Catchments **8**

Scientific indicators

Showing information for **upland** **rural** sites

Select a quality indicator below to view more information:

Bacteria

E. Coli ?

STATE



In the worst 25% of like sites

TREND



No trend

Clarity

Black disk ?

STATE



In the worst 50% of like sites

TREND



No trend

Turbidity ?

STATE



In the worst 50% of like sites

TREND



No trend

Nitrogen

Total Nitrogen ?

STATE



In the worst 25% of like sites

TREND



No trend

Total Oxidisable Nitr... ?

STATE



In the worst 25% of like sites

TREND



No trend

Ammoniacal Nitrogen ?

STATE



In the worst 50% of like sites

TREND



Significant degradation

Phosphorus

Dissolved Reactive P... ?

STATE



In the worst 50% of like sites

TREND



No trend

Total Phosphorus ?

STATE



In the worst 50% of like sites

TREND



No trend

pH ?

STATE



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TREND



No trend

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Friends of the Waikato
Bridge Car Park, Hamilton

2

Public Meeting, Tukituki Dam Project

Regional level scientific dashboard

Region level data is displayed on a dashboard. Regional Council state data shows how a region performs nationally, based on quartiles (top 25%, top 50%, bottom 50%, bottom 25%). Trends

show if a region is improving over time. These are indicated with icons. Terms are explained with glossary popups.

Manawatu River

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, ka taea e au te haramai i to.

[Read more](#) +

Sites **8**

Scientific indicators

Monitored sites in this catchment

Filter

	KAHUTERAWA STREAM AT KAHUTERAWA RESERVE Upland, Rural	POOR
	KAI IWI STREAM AT ARCHERS' BRIDGE H6 HEADING Lowland, Urban	POOR
	KAIKOKOPU STREAM AT HIMATANGI BEACH Upland, Rural	POOR
	MANAWATU RIVER AT ALBERT STREET Lowland, Rural	VERY POOR
	MANAWATU RIVER AT ASHURST DOMAIN Lowland, Urban	VERY POOR
	MANAWATU RIVER AT HOPELANDS RESERVE Upland, Rural	VERY POOR
	MANAWATU RIVER AT WHIROKINO BOAT RAMP Upland, Forest	VERY POOR
	MANGAHAO RIVER AT MARIMA DOMAIN Upland, Rural	NOT RATED

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Council Officers, Napier

Submit an event



Manawatu-Wanganui Regional council
Click for more info

Related links

- [In season water quality monitoring](#)
- [Water quality at popular swimming spots](#)
- [Summary of the Our Manawatu River Leaders' Accord action plan](#)

Catchment level navigation dashboard

A catchment level page shows a list of sites within that catchment. The map is also a navigation tool allowing a user to choose a site. The list indicates how sites are rated from a

recreation grade point of view. The site list can be filtered by recreational activity, or by those sites that have scientific data.

Manawatu River

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, ka taea e au te haramai i to.

Hide

Length: 235km
Catchment size: 5898 sq km

Starts: Ruahine Ranges
Ends: Near Foxton Beach

The Manawatu River catchment covers an area of 5,898 square km. The river itself is 235 km long with a total stream length in the catchment of 9,648 km. The catchment has a number of large tributaries including the Oroua (131 km), Mangatainoka (71 km), Mangahao (86 km), Pohangina (71 km) and Tiraumea (69 km) rivers.

The headwaters of the Manawatu River are situated in the Ruahine Ranges, northwest of Norsewood. The river is unique in that it begins on the eastern side of a main divide and winds its way to the Tasman Sea on the western side of the range at Foxton Beach. This means the river predates the geological formation of the ranges.

History +

What does the name mean? +

Sites 8

Scientific indicators

Monitored sites in this catchment

Filter 🔍

	KAHUTERAWA STREAM AT KAHUTERAWA RESERVE Upland, Rural	POOR
	KAI IWI STREAM AT ARCHERS' BRIDGE H6 HEADING Lowland, Urban	POOR
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	MANAWATU RIVER AT WHIROKINO BOAT RAMP Upland, Forest	VERY POOR
	MANGAHAO RIVER AT MARIMA DOMAIN Upland, Rural	NOT RATED

Catchment level navigation dashboard (expanded content)

Councils can add detailed information about the catchment that can be expanded by users.

Manawatu River

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, ka taea e au te haramai i to.

[Read more](#) +

Sites **8**

Scientific indicators

Showing information for **upland** **rural** sites

Select a quality indicator below to view more information:

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E. Coli ?

STATE



In the worst 25% of like sites

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Turbidity ?

STATE



In the worst 50% of like sites

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No trend

Nitrogen

Total Nitrogen ?

STATE



In the worst 25% of like sites

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In the worst 50% of like sites

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Significant degradation

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Dissolved Reactive P... ?

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Total Phosphorus ?

STATE



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No trend

pH ?

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No trend

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Public Meeting - Tukituki Dam

Catchment level scientific dashboard

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Tokomaru River at Horseshoe Bend

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, ka taea e au te haramai.

[Read more +](#)

Recreational info

Scientific indicators

Recreational water quality

Can I trust this data? ✓

2013 Suitability for Recreation Grade



Not always suitable for swimming

[Show SFRG info +](#)

Site suitable for these activities



Click an icon for further details

[Show past grades +](#)

The Suitability for Recreation Grade (SFRG) is updated **annually**. It provides five grades (very poor to very good) that summarise the potential health risk associated with primary recreation (such as swimming or surfing) at a site. The [Horizons Regional Council](#) monitors this site on a weekly basis throughout the summer months.

- [View a SFRG factsheet ▶](#)
- [View the Horizons website for in-season monitoring ▶](#)

See this site

[Send us a photo or video ▶](#)



Video caption to go with image above
Video submitted by Cameron Askin



Photo caption to go with image above
Photographer: Cameron Askin

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Hawkes Bay Regional Council
Council Officers, Napier

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[Report river observation](#)

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Site level recreation dashboard

The default landing page for a site shows the suitability for recreation grade (SFRG) for the site (if available). A panel shows which recreation activities can be undertaken at the site. Images and videos from the site are displayed on the page. A 'can I trust this data' link (the 'Cawthron tick') pops up

information about how SFRG is calculated and how robust the analysis is. The map shows the location of the site, plus other sites in the catchment.

Tokomaru River at Horseshoe Bend

POOR

Poor Suitability for Recreation

The site is susceptible to faecal pollution and microbial water quality is not always suitable for swimming. During dry weather conditions, ensure that the swimming location is free of signs of pollution, such as discoloured water, odour or debris in the water, and avoid swimming at all times during and for up to three days following rainfall.

[View a factsheet on all Suitability for Recreation Grades](#)

POOR

Not always suitable for swimming



Click an icon for further details

Show SFRG info +

Show past grades +

ko ona tuakana ki te hii ika. I te hokinga
ka e au te haramai.

Read more +

LAND USE / ALTITUDE  

Can I trust this data? ✓

Suitability for Recreation Grade (SFRG) is updated annually. It provides five grades (very poor to very good) that summarise the potential health risk associated with primary recreation (such as swimming or surfing) at a site. The Horizons Regional Council monitors this site on a weekly basis throughout the summer months.

- View a SFRG factsheet
- View the Horizons website for in-season monitoring

See this site



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Video submitted by Cameron Askin

Send us a photo or video



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Site level recreation dashboard (showing SFRG popup)

Hovering over the SFRG grade brings up a popup explaining what the grade means.

Tokomaru River at Horseshoe Bend

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, ka taea e au te haramai.

[Read more +](#)

Recreational info

Scientific indicators

LAND USE / ALTITUDE 🌳 🏔️

Recreation



Suitable for dog walking

Dogs are allowed at this site, as long as they are kept on a lead.

[View a factsheet on recreation tags ▶](#)

Can I trust this data? ✓

2013 Suitability for Recreation



Not always suitable for swimming



Click an icon for further details

[Show SFRG info +](#)

[Show past grades +](#)

Recreation Grade (SFRG) is a tool used to assess the potential health risk associated with primary recreation (such as swimming or surfing) at a site. The Horizons Regional Council monitors this site on a weekly basis throughout the summer months.

- View a SFRG factsheet ▶
- View the Horizons website for in-season monitoring ▶

See this site

[Send us a photo or video ▶](#)



Video caption to go with image above
Video submitted by Cameron Askin



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Council Officers, Napier

[Submit an event 📅](#)

[Report river observation](#)

[Follow LAWA](#)

[Share LAWA](#) 📧

Site level recreation dashboard (Showing recreation popup)

Hovering over the recreation tab shows contextual information provided by the council on each activity (such as dogs are not allowed during lambing season, etc).

Tokomaru River at Horseshoe Bend

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hiri ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui; ka taea e au te haramai.

[Read more +](#)

Recreational info

Scientific indicators

LAND USE / ALTITUDE  

Recreational water quality

Can I trust this data? ✓

2013 Suitability for Recreation Grade



Not always suitable for swimming

Site suitable for these activities



Click an icon for further details

The Suitability for Recreation Grade (SFRG) is updated annually. It provides five grades (very poor to very good) that summarise the potential health risk associated with primary recreation (such as swimming or surfing) at a site. The [Horizons Regional Council](#) monitors this site on a weekly basis throughout the summer months.

- View a SFRG factsheet ▶
- View the Horizons website for in-season monitoring ▶

Hide SFRG info -

Show past grades +

Information about SFRG

Can I trust this data? ✓

2013 MAC and SIC



There are two components to calculating a Suitability for Recreation Grade. The two components of the SFRG are a Microbial Assessment Category (MAC), and a Sanitary Inspection Category (SIC).

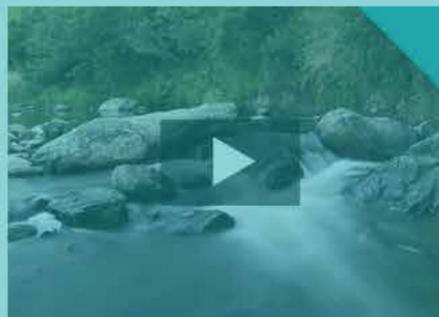
The Microbial Assessment Category (MAC) is calculated from water samples measuring the indicator bacteria used is Escherichia coli (E. coli) in freshwater. The concentration of the bacteria is converted into a category (A to D).

The Sanitary Inspection Category (SIC) is calculated from a catchment inspection that identifies the risk factors that might make the site susceptible to faecal contamination. SIC is rated in five categories from very low risk to very high risk.

[View factsheet about MAC and SIC ▶](#)

See this site

[Send us a photo or video](#)



Video caption to go with image above
Video submitted by Cameron Askin.



Photo caption to go with image above
Photographer: Cameron Askin.



Photo caption to go with image above
Photographer:

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Site level recreation dashboard (expanded SFRG)

Clicking on the 'Show SFRG info' button expands the content to explain how the grade is calculated and to show more detailed Microbial Assessment

Category (MAC) and Sanitary Inspection Category (SIC) grades. A link to a detailed factsheet on MAC and SIC is available.

Tokomaru River at Horseshoe Bend

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hiri ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui; ka taea e au te haramai.

[Read more +](#)

Recreational info

Scientific indicators

LAND USE / ALTITUDE  

Recreational water quality

Can I trust this data? ✓

2013 Suitability for Recreation Grade



Not always suitable for swimming

Site suitable for these activities



Click an icon for further details

The Suitability for Recreation Grade (SFRG) is updated annually. It provides five grades (very poor to very good) that summarise the potential health risk associated with primary recreation (such as swimming or surfing) at a site. The [Horizons Regional Council](#) monitors this site on a weekly basis throughout the summer months.

- View a SFRG factsheet ▶
- View the Horizons website for in-season monitoring ▶

Show SFRG info +

Hide past grades -

Past Suitability for Recreation Grades

Can I trust this data? ✓

2012 Suitability for Recreation Grade



Suitable for swimming most of the time

MICROBIAL ASSESSMENT CATEGORY

MAC

NO DATA

SANITARY INSPECTION CATEGORY

SIC

NO DATA

2011 Suitability for Recreation Grade



Suitable for swimming most of the time

MICROBIAL ASSESSMENT CATEGORY

MAC

NO DATA

SANITARY INSPECTION CATEGORY

SIC

NO DATA

2010 Suitability for Recreation Grade



Suitable for swimming most of the time

MICROBIAL ASSESSMENT CATEGORY

MAC

NO DATA

SANITARY INSPECTION CATEGORY

SIC

NO DATA

2009 Suitability for Recreation Grade



Suitable for swimming most of the time

MICROBIAL ASSESSMENT CATEGORY

MAC

NO DATA

SANITARY INSPECTION CATEGORY

SIC

NO DATA

2008 Suitability for Recreation Grade



Suitable for swimming most of the time

MICROBIAL ASSESSMENT CATEGORY

MAC

NO DATA

SANITARY INSPECTION CATEGORY

SIC

NO DATA

See this site

[Send us a photo or video](#)



Video caption to go with image above
Video submitted by Cameron Askin



Photo caption to go with image above
Photographer: Cameron Askin



Photo caption to go with image above
Photographer: Cameron Askin

Site level recreation dashboard (expanded SFRG history)

Clicking on the 'Show past grades' button expands the content to display the grade history of SFRG, MAC and SIC.



Photo caption to go with image above
Photographer: Cameron Askin

See this site

Send a photo or video



Site level image lightbox

Clicking on a photo from the site page opens the image gallery as a popup, which a user can scroll through.

Manuwatu at Teachers College

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, ka taea e au te haramai.

[Read more](#) +

Recreational info

Scientific indicators

Live data feeds

Scientific data for this site

Can I trust this data? ✓

This dashboard shows information on the data collected by regional councils for nine indicators, analysed as **state** and **trend**.

State ?

State shows how the **median** of samples from this site compares to other sites in the catchment.

This site is showing

[all sites](#)

Click on

Back

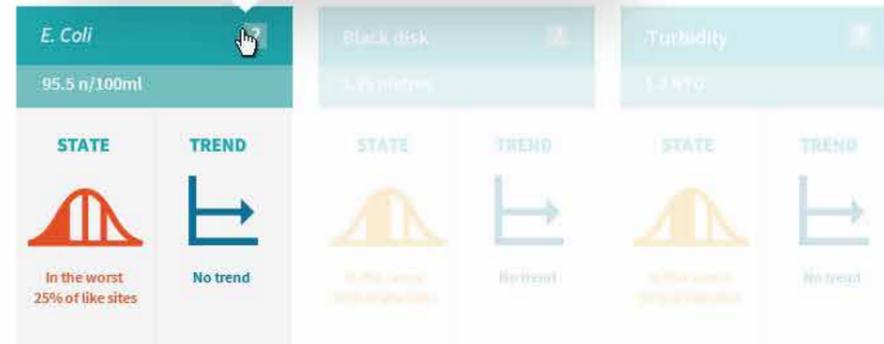
Trend ?

Trend shows how the quality of water is changing over time. Depending on the indicator, the trend duration, five and nine year trends are available:

Five year trend

E. coli (Escherichia coli) is a type of bacteria commonly found in the intestines of humans, warm-blooded mammals and birds. *E. coli* in water is not usually harmful in itself but high concentrations are an indicator of the risk of other more harmful pathogens and the presence of human or animal faecal contamination.

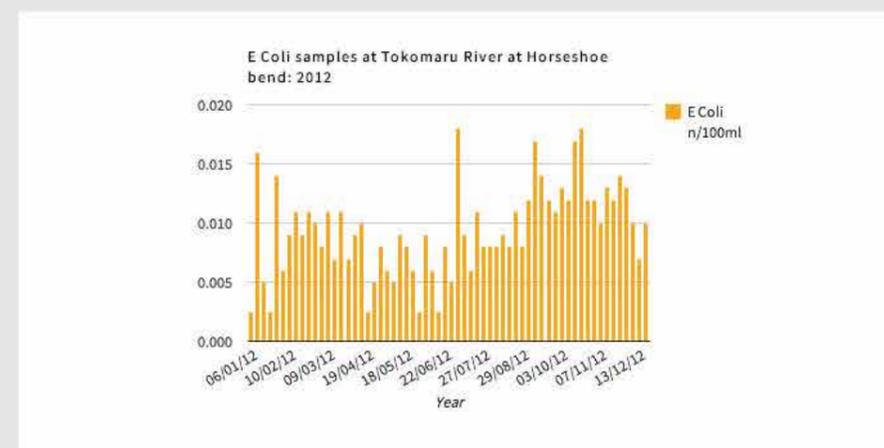
[Read full factsheet on E. coli](#) ▶



Sample history at this site

[Download data](#)

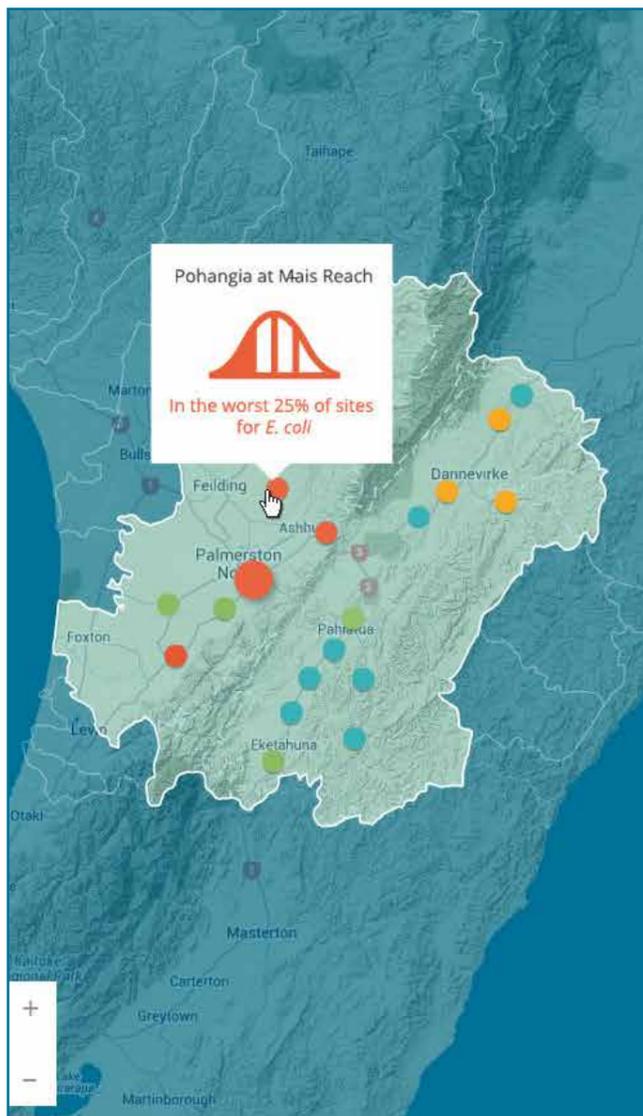
Showing: 2012 - 2013



What is this graph showing me?

Can I trust this data? ✓

This graph is displaying *E. coli* samples over the time period chosen from the dropdown menu. These samples form the basis for the state and trend indicators displayed on the dashboard. This data is raw and has not had any methodology applied to it, unlike the state and trend grades.



The map is showing the state quartile for the current site (shown large), and how other sites in the catchment also perform.

Site level scientific indicators dashboard (sample history)

Clicking on an indicator shows the sample history for that indicator. A user can change the timeframe and the graph

generates automatically. Data can also be downloaded as a .csv file. The map shows how the site state compares to other sites by showing which quartile each falls into. A glossary popup shows users what the indicator is, and allows access to a detailed factsheet.

Manuwatu at Teachers College

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, ka taea e au te haramai.

[Read more +](#)

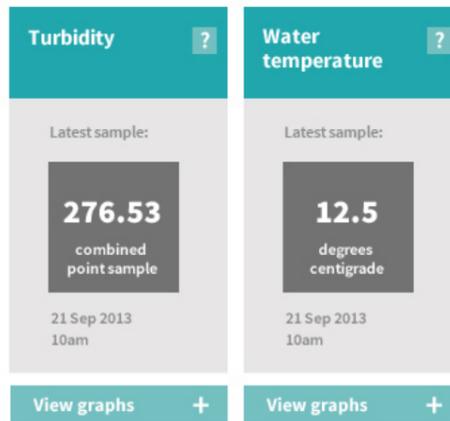
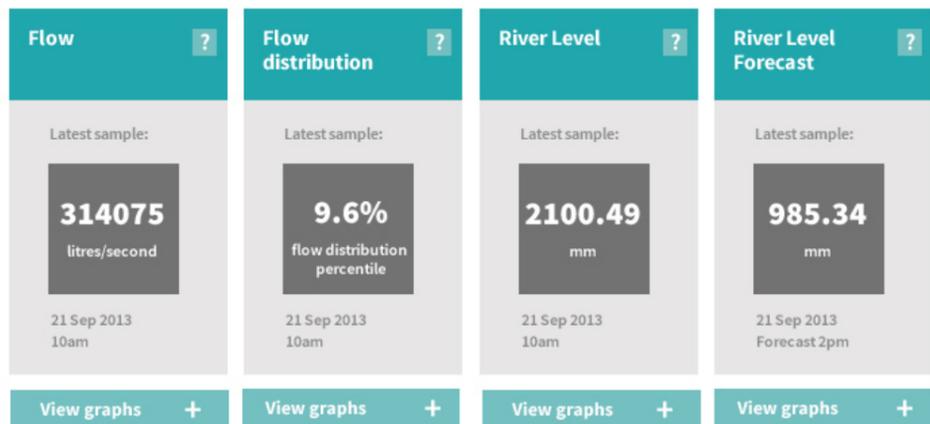
Recreational info

Scientific indicators

Live data feeds

Automatic 'live data' sampling

Some sites have **telemetry** monitoring systems in place that can provide up to the minute data. At this site the following live data measurements are available. Click on the data type for more information:



Disclaimer

The Environmental Data produced by this page should be used as a guide only. LAWA takes no responsibility for the accuracy of information presented, and accepts no liability for actions taken of others based on this information.

Useful links

- Monitoring on the Horizons website
- Recreational information for this site

[Report river observation](#)

[Follow LAWA](#)

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Site level live data feeds dashboard

Where a site has automatic monitoring in place, these are available under the Live data feeds tab. A dashboard shows the most recent result for each indicator.

Manuwatu at Teachers College

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hiri ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui; ka taea e au te haramai.

[Read more +](#)

Recreational info

Scientific indicators

Live data feeds

Automatic 'live data' sampling

Some sites have telemetry monitoring systems in place that can provide up to the minute data. At this site the following live data measurements are available. Click on the data type for more information:

Flow	Flow distribution	River Level	River Level Forecast
Latest sample: 314075 litres/second 21 Sep 2013 10am	Latest sample: 9.6% flow distribution percentile 21 Sep 2013 10am	Latest sample: 2100.49 mm 21 Sep 2013 10am	Latest sample: 985.34 mm 21 Sep 2013 Forecast 2pm
Close graph -	View graphs +	View graphs +	View graphs +

Flow (litres per second)

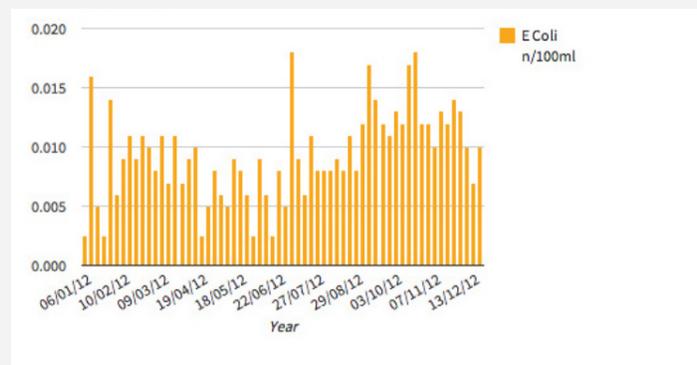
Last 7 days

Last 30 days

Last 12 month

[Download data](#)

Click and drag over graph range to zoom in on timescale. To reset select a timescale above.



MALF (Mean Annual Low Flow):

What is this graph showing me?

This river level forecast is based on flood forecasting methods which consider the following data:

- soil moisture conditions
- actual rainfall within and near the catchment
- flows within the river and its tributaries
- forecast rainfall provided by MetService

Every effort is made to produce a reliable forecast of future river level however, beyond a few hours, the quality of the river level forecast is strongly influenced by the accuracy of the forecast rainfall.

Site level live data feeds dashboard

Clicking on an indicator will open the live data feed, and a user can select a timeframe and download data.

Search LAWA's learn section for factsheets and glossary entries

Search for a topic



Featured factsheets

New to LAWA?
Lorem ipsum dolar
intro to interface
[Start here](#)



CLARITY
What is water clarity?



TRENDS
What do the trends on
LAWA mean?



ALGAL BLOOM
What are algal blooms?

WORD OF THE WEEK:
Enterococci

Bacteria that occur
naturally in the gut of
humans and animals...
[Read more](#)



SAMPLES
How are samples
processed?

[View more factsheets](#) ▶

Glossary

- A** Aesthetic / amenity values
Algae
Algal bloom
Ammoniacal nitrogen
Aquaiculture
Aquifer
- B** Bacteria
Benthic
Biochemical oxygen demand (BOD5)
Black disc
Breach
Bryozoan mat

- H** Hydrology
Hydro generation
Hydrograph
- I** Inter-tidal
Introduced species
Invasive species
Irrigation
- J** Jetty
Joint spring
Juvenile water
- K** Kanat

- R** Reach
Recreational water quality
Renewable freshwater resource
Riparian areas/margin
Riparian planting
Run-off
- S** Salinity
Saltwater intrusion
Sediment discharge
State
Soil moisture content

- T** Total nitrogen
Total oxidisable nitrogen
Total Phosphorus
Topsoil
Trend
Turbidity

- U** Unconfined aquifer
Unconfined groundwater
Underflow
Underground stream

- V** Valley
Viscosity
Vortex

- W** Wastewater
Water quality
Weed
Wetlands

- X** X axis

- Y** Y axis
Yield

E. coli (Escherichia coli) is a type of bacteria commonly found in the intestines of humans, warm-blooded mammals and birds. *E. coli* in water is not usually harmful in itself but high concentrations are an indicator of the risk of other more harmful pathogens and the presence of human or animal faecal contamination.

[Read full factsheet on E. coli](#) ▶

- E** E. coli (Escherichia coli)
Erosion
Ecological footprint
Ecosystem
Ecotoxic
Ecotoxicity
Effluent
Endemic
Endemism
Enterococci

- M** Milligrams per cubic metre (mg/m3)
Monitoring network

- N** Nitrogen
Nitrates
Nutrients

- O** Organic matter
Overflow

Learn section landing page

Top level page in the Learn section. Feature boxes signpost to interesting factsheets, or a button to view all factsheets allows for browsing. Search function gives an easy way to explore factsheets for users that know what they are looking for. The glossary list at the bottom of the page lists all the

key terms used across the site. Hovering over or clicking these opens them. Where further information is available, the glossary terms are linked to factsheets.

Factsheets

All factsheets

Filter



Periphyton (algae)

PUBLISHED: 23 SEP 2013

The mix of algae, fungi, and bacteria that grow on the beds of our rivers, lakes and streams is also known as periphyton. Periphyton can take two general forms: microscopic, unicellular algae (i.e., diatoms) or macroalgae that develop as filaments, sheets or mats...



How trends are calculated on LAWA

PUBLISHED: CAMERON ASKIN

orem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in...



Dissolved oxygen

PUBLISHED: 21 OCT 2013

A good balance of oxygen dissolved in water is necessary for good water quality. Fish and other aquatic life require it to breathe. Oxygen is dissolved in water through aeration or movement of water and as a by-product of plant photosynthesis..



River of the month: The Tukituki

PUBLISHED: 23 SEP 2013

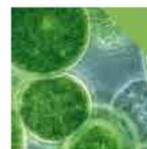
The Tukituki River is located in the Environment Canterbury Waihora / Ellesmere water management zone. The river is one of New Zealand's largest braided rivers, and is highly valued for recreational ...



pH

PUBLISHED: 21 JAN 2012

pH relates to the acidity of a waterway. The lower the pH, the more acidic the water. Most natural waters fall within the slightly alkaline range between pH 6.5 to 8.0 and in the absence of contaminants most waters maintain a pH value that varies only a few tenths of...



Periphyton (algae)

PUBLISHED: 23 SEP 2013

The mix of algae, fungi, and bacteria that grow on the beds of our rivers, lakes and streams is also known as periphyton. Periphyton can take two general forms: microscopic, unicellular algae (i.e., diatoms) or macroalgae that develop as filaments, sheets or mats...



How trends are calculated on LAWA

PUBLISHED: CAMERON ASKIN

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Factsheet list

Factsheet list can be filtered by category (for instance, data collection, legislation, science, etc).

Factsheet: About *E.coli*

SUBMITTED BY
Jo Bailey

PUBLISHED DATE
12 Sep 2013

E. coli (Escherichia coli) is a type of bacteria commonly found in the intestines of warm-blooded mammals (including people) and birds. *E. coli* in freshwater is not usually harmful in itself but high concentrations of this bacteria indicates faecal contamination that can be harmful to humans when certain levels are exceeded. Too much *E. coli* makes the water unsafe to drink or swim in.

Common sources of *E. coli* bacteria include untreated human wastewater discharges, stormwater runoff and animal waste. Faecal microbial concentrations are also typically higher in *pastoral* streams, but even near-pristine streams are never totally free of faecal contamination because of faecal deposition by birds and feral mammals in their catchments. *E. coli* is measured in colony forming units (cfu) per 100mL.

What effects *E. coli*?

E. coli concentration in streams is highly dependent on state of flow with concentrations two or three orders magnitude higher during storm flows than during base flows. It is therefore important to index faecal microbial testing of stream waters to flow when sampled.



Horizons Regional Council collecting water samples.

H4 heading, 18px bold

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Other related factsheets

-  Factsheet: Trends
-  Factsheet: State
-  Factsheet: Bacteria
-  Factsheet: NeWAR standards

Related links

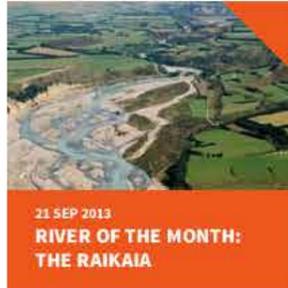
-  Forest & Bird 
-  Department of Conservation 
-  World Water Day 
-  Glossary

Factsheet

A factsheet content page. Related factsheets and links included in the sub-footer.

Stories, news and events from the community

Featured stories



21 SEP 2013
**RIVER OF THE MONTH:
THE RAIKAIA**



25 SEP 2013
NEW REPORT RELEASED
MFE Domain Report

29 SEP 2013
NATIONAL RIVERS WEEK
Information about
events and activities for
NRW in December

Submit a story

[View all stories](#)

Upcoming events



Submit an event

[View all events](#)

Getting involved at home

As well as events in your area, there are lots of things you can do to watch out for water at home. Check out these factsheets:

- Saving water at home
- Planting your garden for water conservation

Related links

- [Forest & Bird](#)
- [Department of Conservation](#)
- [World Water Day](#)

[Report river observation](#)

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Get Involved landing page

Top level page in the Get Involved section. Feature boxes signpost to interesting content, or buttons to view all stories or all events allows for browsing.

Stories and news from the community

Stories

Filter



H4 River of the month: The Raikia

23 SEP 2013 | JO BAILEY

The Rakaia River is located in the Environment Canterbury Waihora / Ellesmere water management zone. The river is one of New Zealand's largest braided rivers, and is highly valued for recreational ...



Community planting a success at marae

20 SEP 2013 | CAMERON ASKIN

A marae-based water clean-up project is focused on engaging farmers to improve rivers and see fish numbers increase. Ruahapia Marae's Aki Paipper said Operation Patiki, which aimed to improve the...



Karori Stream volunteers replanting makes a difference

23 SEP 2013 | JO BAILEY

The FROKS (Friends of Karori Stream) group are co-ordinating the restoration of Karori Stream where it runs along the length of South Karori Road. This will involve working in with Greater Wellington's Streams Alive programme to target ...



River of the month: The Tukituki

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River of the month: The Raikia

23 SEP 2013 | JO BAILEY, MARLBOROUGH REGIONAL COUNCIL

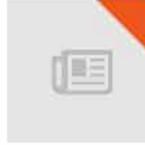
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Community planting a success at marae

20 SEP 2013 | JANNA BROWN, OPEN LAB

A marae-based water clean-up project is focused on engaging farmers to improve rivers and see fish numbers increase. Ruahapia Marae's Aki Paipper said Operation Patiki, which aimed to improve the...



New MFE report released

23 JUL 2013 | CAROLINE ROWE, LAWLA

The FROKS (Friends of Karori Stream) group are co-ordinating the restoration of Karori Stream where it runs along the length of South Karori Road. This will involve working in with Greater Wellington's Streams Alive programme to target ...

Submit a story

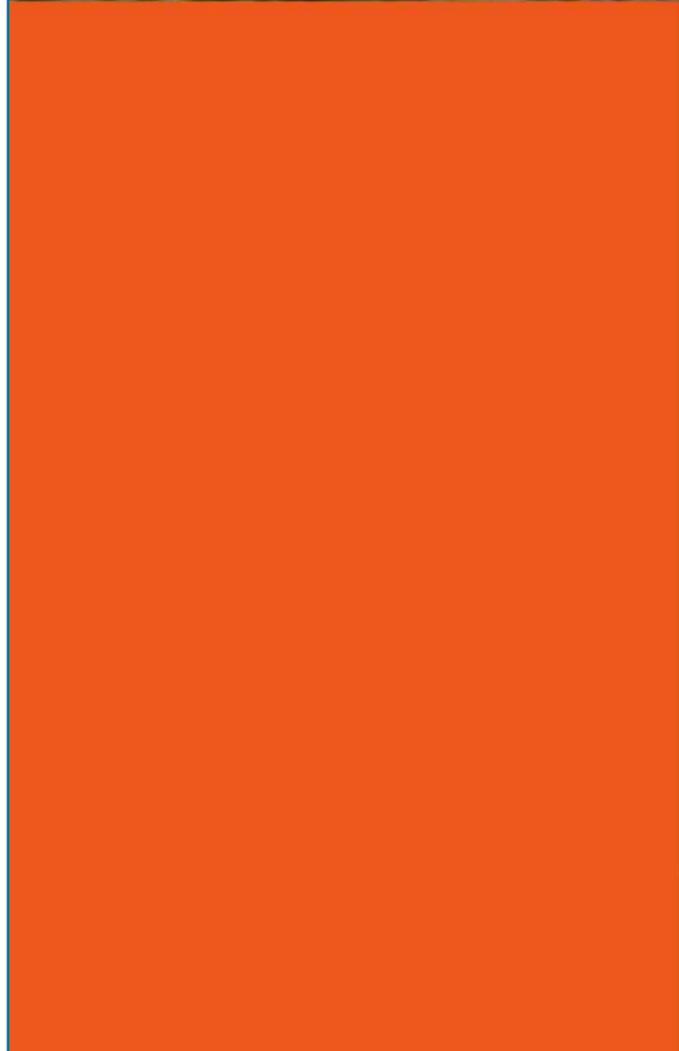
Load more stories

Related links

- Saving water at home factsheet
- Planting your garden for water conservation factsheet
- The Raikia River site page

Submit an event

Got a story or article to share?
Submit it to LAWA:



Stories list

List of news stories, can be filtered by category.

River of the month: The Raikaia

SUBMITTED BY
Jo Bailey

PUBLISHED DATE
12 Sep 2013

Intro text, 18px / 26px. The Raikaia River is located in the Environment Canterbury Waihora / Ellesmere water management zone. Again it is located in the Environment Canterbury Waihora / Ellesmere water management zone. is located in the Environment Canterbury Waihora / Ellesmere water management zone.

Default paragraph text, 16px / 26px. The Raikaia River is located in the Environment Canterbury Waihora / Ellesmere water management zone. [Click here inline link](#) he river is one of New Zealand's **largest** braided rivers, and is highly valued for recreational. The Raikaia River is located in the Environment Canterbury Waihora / Ellesmere water management zone. [Click here inline link](#) he river is one of New Zealand's **largest** braided rivers, and is highly valued for recreational.

H3 heading, 21px bold

Canterbury Waihora / Ellesmere water management zone. [Click here inline link](#) he river is one of New Zealand's **largest** braided rivers, and is highly valued for recreational. The Raikaia River is located in the Environment Canterbury Waihora / Ellesmere water management zone. [Click here inline link](#) he river is one of New Zealand's **largest** braided rivers, and is highly valued for recreational.



The Raikaia River, Te Ara

H4 heading, 18px bold

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Related links

- Saving water at home factsheet
- Planting your garden for water conservation factsheet
- The Raikaia River site page
- Regional Council Raikaia River info 

Submit an event

Got a story or article to share?
Submit it to LAWA:

[Submit an event](#) 

Story

Example story. Related links in the footer signpost to additional content.

Events from the community

Events

Filter  

21
SEP

Community planting day

21 SEP 2013 | HUTT RIVER CAR PARK | GREATER WELLINGTON REGION

Community planting day to plant the eastern bank of the river. Meet at the car park at 9am. Bring gloves and a spade if you have them...

20
SEP

Tukituki River talk

20 SEP 2013 | NAPIER TOWN HALL | HAWKES BAY REGION

A talk by the local DOC ranger on the health of the Tukituki...

23
SEP

Karori Stream volunteer replanting

23 SEP 2013 | KARORI STREAM | GREATER WELLINGTON REGION

The FROKS (Friends of Karori Stream) group are co-ordinating the restoration of Karori Stream. Come and join them for a replanting session...

23
SEP

Weekly river walk

23 SEP 2013 | MADEUP RIVER | AUCKLAND REGION

Every week the Madeup Stream volunteer group have a nature walk followed by a talk at the RSA. New members welcome...

24
SEP

Freshwater week

24 - 30 SEP 2013 | MULTIPLE VENUES | NATIONWIDE

See www.freshwaterweek.com for more details...

01
OCT

International Water Day

01 OCT 2013 | MULTIPLE VENUES | NATIONWIDE

In support of United Nations International Year of Water Cooperation, this year's theme highlights tourism's role in water access and shines a spotlight on the actions currently being taken by the sector in order to contribute to a more sustainable water future...

15
OCT

Monthly river storytime

15 OCT 2013 | BLENHEIM LIBRARY | MARLBOROUGH REGIONAL COUNCIL

Talk for children at the library. Refreshments provided. This week, our speaker will be river scientist Maree Clark.

30
OCT

Wading birds talk

30 OCT 2013 | NELSON YACHT CLUB | NELSON REGION

Renowned twitcher Cameron Askin will present a talk on native wading birds. Gold coin donation...

05
NOV

Domain Report Launch

23 JUL 2013 | PARLIAMENT | GREATER WELLINGTON REGION

Invitation only event to mark the launch of the freshwater domain report...

Submit an event 

Load more events

Related links

-  [Saving water at home factsheet](#)
-  [Planting your garden for water conservation factsheet](#)
-  [The Raikaia River site page](#)
-  [Regional Council Raikaia River info](#) 

Submit an event

Got a story or article to share?
Submit it to LAWA:

Submit an event 

Events list

List of events, can be filtered by category or region.

Community Planting Day

12 Dec 2013, 9am - 5pm | Hutt River Car Park | Greater Wellington Region

12
DEC

Add to your calendar

Community planting day to revegetate the east bank of the river upstream of the Hutt River Car Park. [View location on google maps.](#)

SUBMITTED BY
Wellington
Regional Council

Meet at the car park at 9am. Bring rubber gloves and spades. For further details see www.greaterwellington.co.nz/planting.



Hutt River

Further details

Contact	Ranger Cameron Askin
Email	info@gwrc.org.nz
Website	http://creative.massey.ac.nz/about/events/events-calendar/2013/october/peter-turner-memorial-lecture/
Directions	The Hutt River Trail starts at Hikoikoi Reserve on Petone's Marine Parade or you can enter at many points along the Trail from here to Upper Hutt, 27 km away. These points include the bridges across the river: Hutt Estuary, Ava Rail, Ewen, Melling, Kennedy-Good, Silverstream, Moonshine, Totara Park, Harcourt Park and Birchville bridges.

Related links

- [Saving water at home factsheet](#)
- [Planting your garden for water conservation factsheet](#)
- [The Raikaia River site page](#)
- [Regional Council Raikaia River info](#)

Submit an event

Got a story or article to share?
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Event

Example event. This can be added to online calendars via the 'add to your calendar' button. Users can submit events via the button in the footer.

LAWA is a collaboration of organisations with a common aim: to tell the story of freshwater

About LAWA

This site is brought to you by the 16 regional councils or unitary authorities, the Cawthron Institute, Massey University, and the Ministry for the Environment. It has been enabled by funding from the Tindal Foundation. This site brings together a wide range of information that we believe will help New Zealanders – regardless of their region – make good choices about using and enjoying the resources we share. Find out more about the partner organisations below.

History of LAWA

Where to next for LAWA?

Partners

Regional councils and unitary authorities

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, "ka taea e au.te Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, "ka taea e au.te

More about the roles of regional councils

Cawthron Institute

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, "ka taea e au.te

www.cawthron.co.nz



Ministry for the Environment

Ko te moemoea a Maui kia haere ngatahi ai ratou ko ona tuakana ki te hii ika. I te hokinga mai o ona tuakana ki tatahi, ka kii atu a Maui, "ka taea e au.te

www.mfe.govt.nz



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Regional Councils

Click on a council for more details:



About section landing page

Information about the LAWA website, and all the partners involved. Clicking on the council opens a council page.

Horizons Regional Council

Manawatu-Wanganui Region



0800 Horizons
contact@horizons.govt.nz
www.horizons.govt.nz

The Horizons Region covers a large part of the central to lower North Island and is home to a wide variety of landscapes from mountains and ranges to fertile coastal floodplains. It stretches from just north of Taumarunui to south of Levin on the west coast, and across to the east coast from Cape Turnagain to Owhanga.

What are we doing about water quality?

At 22,215 sq km the region (also known as the Manawatu-Wanganui Region) accounts for approximately 8.1% of New Zealand's land area and is home to about 220,000 people.

Another subheading

Horizons manages increasing pressure on both surface water and groundwater. Farming, towns and industry require consents to take water out of the rivers and any potential contaminants that could impact on the health of our waterways are closely monitored.

Closed subheading

Closed subheading

Latest news and stories

Improving water quality the focus of resumed deliberations
Published 21/05/2013

NZ helps protect lagoon water quality in the Cook Islands
Published 21/05/2013

Local water quality 'about perception'
Published 21/05/2013

Submit a story

Upcoming events

12 FEB Water Quality Matters roadshow
Horizons Regional Council
Palmerston North Massey Campus

16 FEB Planting Day
Friends of the Waikato
Bridge Car Park, Hamilton

2 MAR Public Meeting, Tukituki Dam Project
Hawkes Bay Regional Council
Council Officers, Napier

Submit an event

Report river observation

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CONTACT

Website or general enquiries:
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For enquiries about monitoring or sites, please contact the relevant council directly. For council details see About LAWA.

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