

**Workshop - Banks Peninsula Water Management Zone  
Committee  
MINUTES ATTACHMENTS**

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**Date:** Tuesday 26 November 2024  
**Time:** 5.00pm  
**Venue:** Committee Room 2, Level 2, Civic Offices, 53 Hereford Street

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 Whakaraupō/Lyttelton Harbour, Canterbury

 **Environment  
Canterbury**  
Regional Council  
*Kaunihera Taiao ki Waitaha*

## *How the monitoring works*



### **We monitor more than 100 sites in Canterbury weekly**

- ↪ Our team takes samples at each site and does a sanitary survey.
- ↪ We send these samples to the lab once the sampling run is completed.
- ↪ For faecal bacteria, results take between 48-72 hours to be processed and published.
- ↪ Toxic algae is visually assessed in some places and sampled for in others, these results are much faster.
- ↪ We send the results to NPS/Te Whatu Ora as soon as we receive them.
- ↪ Te Whatu Ora assess and make a decision about a health warning.
- ↪ Te Whatu Ora send out a media release and inform the relevant TA so they can erect warning signage, and Environment Canterbury so we can update our website and the LAWA website.



## Long-term grades vs. temporary warnings



- Long-term grades take in 5 years worth of sampling and sanitary surveys for a holistic picture.
- These are compared to National Guidelines (MoH/MfE).
- It's about the *likelihood* of encountering contaminated water.
- Weekly results are a snapshot in time.
- Long-term grades are recommendations to help the community make informed decisions about risks to their health.
- Sites with suitable for swimming long-term grades can (and do) get temporary warnings.
- Temporary warnings are in place for a set period.



## *Changes in coastal sites*

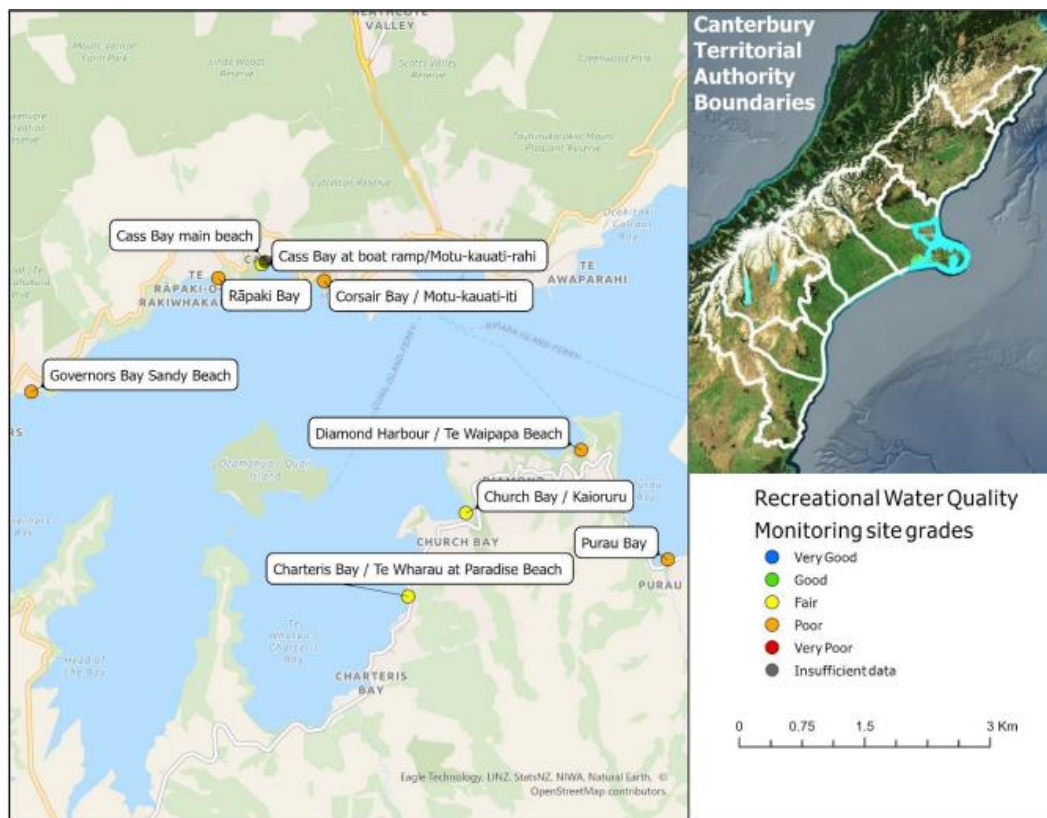


**10 coastal sites had an improved grade, no coastal sites deteriorated.**

### **Most notable changes:**

- **Akaroa Beach** had an improved grade from “poor” to “fair” meaning it is suitable for swimming.
- **Tikao Bay** had an improved grade from “poor” to “fair” meaning it is suitable for swimming.
- **West Caroline Bay** change from “poor” to “fair” marking an overall improvement in water quality at Caroline Bay and making the entire beach generally suitable for swimming.

## Whakaraupō / Lyttelton harbour



### Fair-suitable for swimming

- Charteris Bay Fair
- Church Bay Fair

### Poor-not suitable for swimming


- Purau Bay
- Diamond Harbour
- Corsair Bay
- Cass By
- Rāpaki
- Governors Bay

## *Work towards a predictive model*

- This will offer daily water quality forecasts for some of the bays in Lyttleton Harbour.
- We have had early signs of success.
- It is at the testing stage.
- We expect it to be ready for the 2025/2026 season.







Taking action together  
to shape a thriving and  
resilient Canterbury,  
now and for future generations.

[Ecan.govt.nz](https://ecan.govt.nz)

Toitū te marae o Tāne,  
toitū te marae o Tangaroa,  
toitū te iwi.



Faecal Source Markers from Lyttelton/Whakaraupō and Akaroa/Whakaroa bays and streams

Key: ✓ - detected    ⚠ - low detection    X - not detected

Site ID	Site Name	Site Type	Date of sample	Enterococci/ 100mL	E. coli/ 100mL	Sampling type	GenBac/ 100mL	Human	Ruminant	Dog	Avian
SQ30684	Corsair Bay Beach	Beach	15/02/2023	1,918	NA	Routine (raining)	26,000	✓	⚠	✓	✓
SQ30684	Corsair Bay Beach	Beach	23/02/2023	4,880	3,080	Routine (raining)	26,000	✓	✓	✓	✓
SQ34899	Corsair Bay Stream Beach	Stream	15/02/2023	>2,420	>2,420	Wet weather investigation	440,000	✓	✓	X	✓
SQ30640	Cass Bay at boat ramp	Beach	10/01/2023	404	NA	Routine	2,500	X	X	X	X
SQ30640	Cass Bay at boat ramp	Beach	10/02/2023	404	NA	Routine	4,900	X	X	X	X
SQ36763	Cass Bay at mid beach	Beach	15/02/2023	495	458	Wet weather investigation	5,600	⚠	X	X	X
SQ36763	Cass Bay at mid beach	Beach	23/02/2023	691	744	Wet weather investigation	26,000	✓	X	X	✓
SQ34707	Unnamed Stream at Cass Bay West	Stream	15/02/2023	>2,420	>2,420	Wet weather investigation	420,000	✓	X	✓	X
SQ36764	Cass Bay west stormwater outfall	Pipe	15/02/2023	>2,420	>2,420	Wet weather investigation	790,000	✓	X	X	X
SQ30638	Cass Bay Stream at beach outlet	Stream	15/02/2023	1,986	>2,420	Wet weather investigation	99,000	⚠	X	X	X
SQ30647	Rāpaki Bay Beach	Beach	15/02/2023	650	NA	Routine (raining)	10,000	⚠	X	X	X
SQ36765	Rāpaki outfall at Korara Tahi Road	Pipe	15/02/2023	>2,420	>2,420	Wet weather investigation	340,000	✓	X	X	✓
SQ35237	Omaru Stream above Bottom Bridge	Stream	15/02/2023	>2,420	>2,420	Wet weather investigation	1,300,000	X	✓	X	✓
SQ30649	Governors Bay Sandy Beach	Beach	21/11/2022	1,396	NA	Routine	5,100	X	✓	✓	✓
SQ30649	Governors Bay Sandy Beach	Beach	15/02/2023	1,789	NA	Routine (raining)	7,600	X	⚠	X	X
SQ34570	Sandy Bay Stream Above Private Rd	Stream	15/02/2023	>2,420	>2,420	Wet weather investigation	170,000	X	✓	✓	X
SQ35244	Zephyr Stream The beach	Stream	15/02/2023	>2,420	>2,420	Wet weather investigation	200,000	✓	✓	✓	X
SQ35245	Sandy Bay Beach between W & E streams	Beach	15/02/2023	2,360	677	Wet weather investigation	7,500	X	X	X	X
SQ30665	Diamond Harbour Beach	Beach	15/02/2023	5,170	NA	Routine (raining)	13,000	✓	✓	✓	X
SQ34118	Diamond Harbour Creek immediately above beach	Stream	15/02/2023	>2,420	>2,420	Wet weather investigation	96,000	✓	✓	✓	✓
SQ30670	Purau stream the road bridge (above beach)	Stream	15/02/2023	>2,420	>2,420	Wet weather investigation	1,500,000	✓	✓	X	✓
SQ32595	Purau Bay Beach	Beach	15/02/2023	3,260	NA	Routine (raining)	28,000	⚠	✓	X	✓
SQ35233	Glen Bay boat ramp	Beach	15/02/2023	2,360	NA	Routine (raining)	95,000	✓	✓	X	✓
SQ32610	Akaroa at main beach	Beach	15/02/2023	5,480	NA	Routine (raining)	38,000	✓	✓	X	✓