Western Bay of Plenty District Council

Waihi Beach Stormwater Projects

Why are we doing this work?



- Waihī Beach has experienced several severe storm events, with flooding affecting homes, businesses, and access.
- Stormwater management in Waihī Beach is complex. The area is low-lying, close to the coast, with limited ability for water to drain naturally. Some parts of Waihī Beach will always be prone to flooding.
- We can't completely eliminate flooding, but we're working to improve stormwater drainage and reduce the impacts.





Follow our progress:
westernbay.govt.nz/waihi-beach-stormwater-projects

Western Bay of Plenty District Council

Waihī Beach Stormwater Projects



Projects completed

Combined Stormwater Upgrade Package

1. Beach Road Boardwalk Drain Replacement
2. Athenree Montessori Stormwater Improvements
3. Didsbury Drive

Projects in progress and/or under investigation

- The Crescent Stormwater Improvements (part of Combined Stormwater Upgrade Package)
- Darley Drain and Brighton Reserve Outlet Renewal
- Bowentown Stormwater Improvements (including Seaforth Road)
- Ōtawhiwhi Stormwater Drain Investigations
- Waihī Beach Earth Dam Removal
- One Mile Creek Downstream Stormwater Catchment Upgrades

Follow our progress:
westernbay.govt.nz/waihi-beach-stormwater-projects

Western Bay of Plenty District Council

Beach Road Boardwalk Drain Replacement

Project update

What's involved?

- Replacing the existing open drain beneath the boardwalk between Beach Road and Marine Avenue with an enclosed stormwater pipe.
- Installing a concrete capping structure above the pipe.






Why are we doing this?

- To renew ageing stormwater infrastructure in the area.

Follow our progress:
westernbay.govt.nz/waihi-beach-stormwater-projects

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Athenree Montessori Stormwater Improvements

Project update

What's involved?

- Upgrade of stormwater pipes to and from the existing stormwater chamber at the entrance of the Montessori.
- Reshaping the swale and open channel.






Why are we doing this?

- To improve the capacity and performance of the existing stormwater system.
- To provide a more defined flow path for stormwater runoff.

Follow our progress:
westernbay.govt.nz/waihi-beach-stormwater-projects

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Didsbury Drive Stormwater Improvements

Project update

What's involved?

- Lowering the existing stormwater chamber.
- Reshaping surrounding ground levels.



Before



After

Why are we doing this?

- To improve stormwater conveyance and drainage performance in the area.
- To better direct stormwater runoff towards the existing stormwater infrastructure.

Follow our progress:
westernbay.govt.nz/waihi-beach-stormwater-projects

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The Crescent Stormwater Improvements

Project update

What's involved and why?

- Works are underway to improve stormwater management and overland flow conveyance.
- Kerb heights, vehicle crossings, and adjoining footpath levels are being raised in selected areas to help ensure stormwater runoff remains within the road corridor and is conveyed to the intended drainage network.
- Localised berm reshaping has been completed to better define overland flow paths and help prevent stormwater from leaving the road corridor and affecting adjacent properties.
- Minor regrading of selected areas has been completed to improve surface drainage and direct stormwater towards appropriate collection points and drainage infrastructure.






Follow our progress:
westernbay.govt.nz/waihi-beach-stormwater-projects

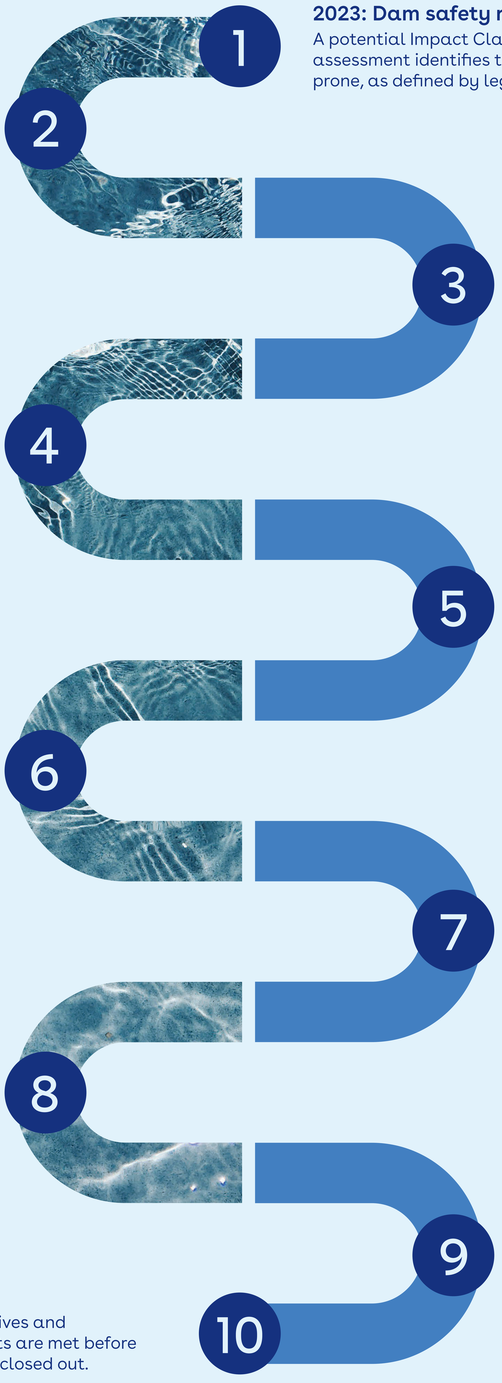
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Shaping the future of the Waihī Beach Earth Dam

The Waihī Beach Earth Dam was built in the 1960s as a water reservoir. Overtime, its purpose has evolved to meet the community's needs, from water supply to recreation and stormwater management.

Today, the dam no longer means modern safety standards. Recent severe weather events have also highlighted ongoing flood risks throughout the catchment.

Our goal is to find a safe, resilient, and sustainable solution that supports the community, environment, and surrounding area.



1

2023: Dam safety regulation
A potential Impact Classification (PIC) assessment identifies the dam as flood prone, as defined by legislation.

2

2024: Project establishment
The Waihī Beach Earth Dam and One Mile Creek Improvement Project is established.

3

2025: Community consultation
Council sought community feedback on the future of the dam and surrounding reserve area.

4

UNDERWAY: Investigations and feasibility assessments
Undertake investigations and feasibility assessments, including extensive modelling.

5

UNDERWAY: Concept design development
Develop a concept design and undertake technical assessments.

6

Preliminary design development
Further develop the design to ensure technical, environmental, and community requirements are addressed. Develop a resource consent application.

7

Detailed design refinement
Refine the detailed design to enable procurement of a contractor for construction.

8

Procurement process
Engage a suitably qualified and experienced contractor to undertake the works.

9

Construction
Physical works start on the approved design.

10

Project wrap-up
Confirm project objectives and legislative requirements are met before the project is formally closed out.

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The Waihī Beach Earth Dam and One Mile Creek Improvement project creates an opportunity to improve stormwater management and increase flood resilience across the wider catchment.

What's being investigated?

Dam removal

- Removal of the concrete dam structures.
- Lowering the height of the dam, while retaining most of the earth embankment.
- Restoration of the two streams flowing into One Mile Creek to a more natural state.
- Enhancements to the reserve area.

One Mile Creek upgrades

To accommodate additional stormwater flows once the dam is removed:

- Sections of the Creek would be widened and improved, including straightening the alignment where possible.
- A bridge would replace the Beach Road culvert.

We're engaging with landowners whose properties are directly downstream of the Dam.



Draft concept design for discussion purposes. Subject to refinement.

Follow our progress:
yourplace.westernbay.govt.nz/waihi-beach-earth-dam

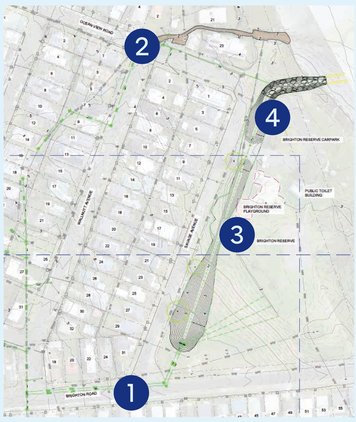
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Darley Drain and Brighton Reserve Outlet Renewal

Project update

What's involved?

1. Installation of two new stormwater pipes along Brighton Road
2. Installation of a new stormwater pipe along Ocean View Road
3. Construction of a vegetated swale through Brighton Reserve, including a reinforced outlet to improve long-term performance and resilience.
4. Relocation and enlargement of the outlet at Brighton Reserve.



Why are we doing this?

- Increase outlet stormwater discharge capacity
- Reduce flooding impacts across the catchment
- Improve network resilience and performance
- Enable future drainage upgrades through Wallnutt Avenue.

Follow our progress:
westernbay.govt.nz/waihi-beach-stormwater-projects

Western Bay of Plenty District Council

Civil Defence Emergency Management

Council is a member of the Bay of Plenty Civil Defence Emergency Management Group, working alongside emergency services, partner agencies, and critical infrastructure providers to prepare for, respond to, and recover from emergencies.

What we do

- Prepare Council and communities for emergencies
- Promote community resilience and hazard awareness
- Support and grow Community Emergency Hubs
- Strengthen local and regional partnerships for emergency response
- Plan for and carry out recovery activities.

We can support by:

- Helping you understand local hazards and risks
- Promoting ways to build household and community preparedness
- Connecting you with Community Emergency Hubs
- Providing educational resources.

Community Emergency Hubs

19 hubs across the District, run by community members.

Community Emergency Hubs provide a place for people to connect, share information, and support one another while official assistance is being coordinated.

Local hubs include Waihī Beach RSA, Athenree Homestead, and Katikati Baptist Church. Other hubs can be opened depending on the size and scale of the event.

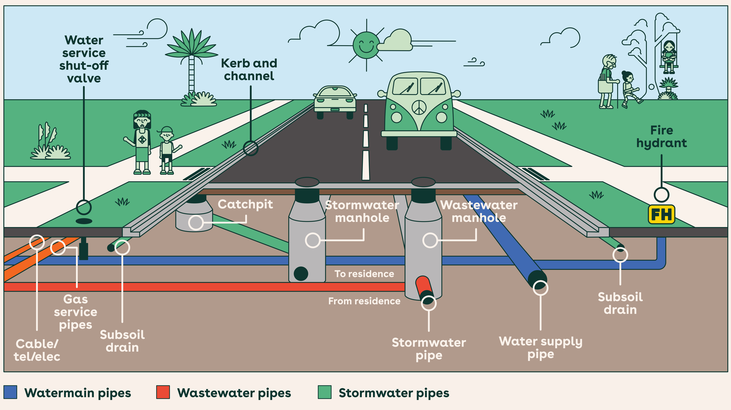
For more information visit:
westernbay.govt.nz/community/civil-defence/be-prepared
or **bopcivildefence.govt.nz**

EMERGENCY MANAGEMENT WESTERN BAY

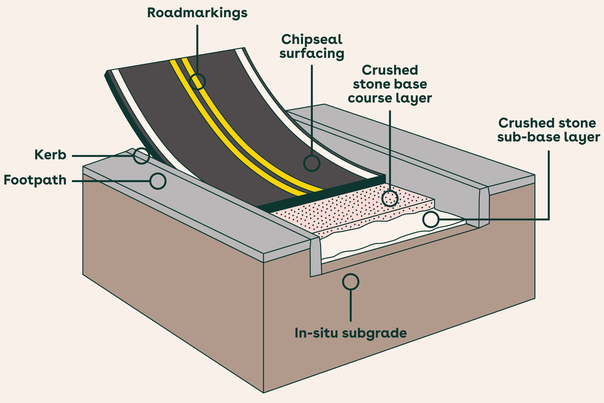
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What's under our roads?

How infrastructure fits together



Layers of a road



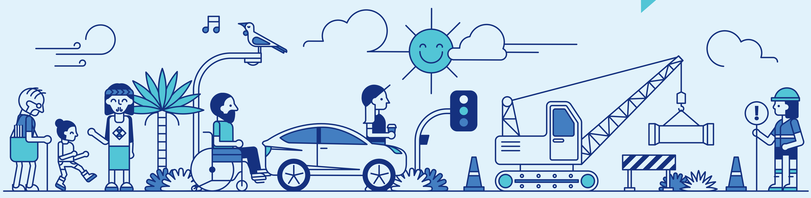
Find out more about our roading projects here:
westernbay.govt.nz/your-roads-and-journeys/roads

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your place Tō wāhi

Seaforth Road upgrades

Stormwater and road improvements

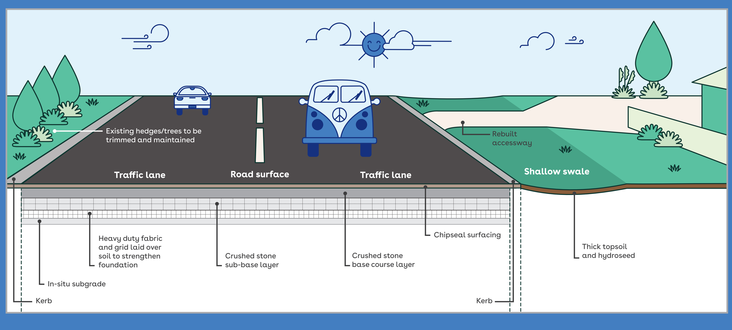


- Road improvements
- Stormwater pipes
- Future-proofing the road

What's happening?

- Shaping of the western road berm to form a shallow swale
- New stormwater collection points and piping
- New kerb and channel, and outlets
- Excavating and rebuilding the road structure in layers
- Rebuilding accessways and underlying culverts
- Laying new chipseal
- Applying road markings.

A typical Seaforth Road cross-section



Follow our progress:
yourplace.westernbay.govt.nz/seaforth-road