

Marlborough Roads Recovery

Response to 17 July 2021 Event

Marlborough Roads Recovery

Overview

- Summary of Events
- Current Situation
- Scale of What Needs to be Done
- The Recovery Team
- Procurement
- Prioritisation

Summary of Rain Event

17 July 2021

17 July 2021

Marlborough was hit by largest ever recorded flood.

**Local State of
Emergency
Declared**

The State of Emergency lifted and transitioning to recovery phase from 28 July.






Response

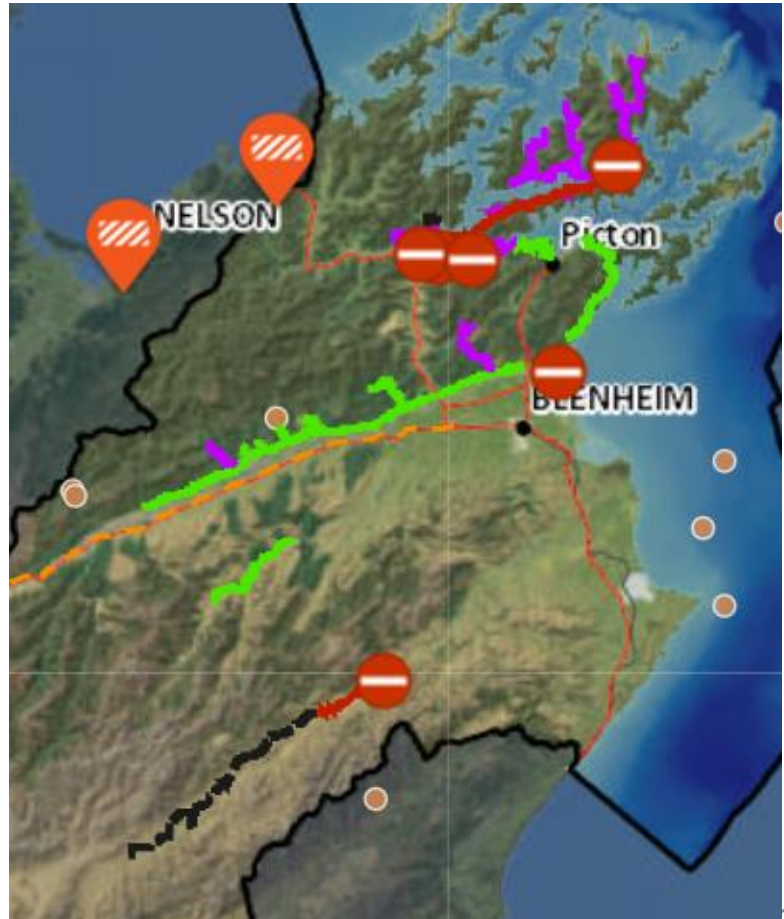
The response is expected to take several weeks before safe access is restored (be it at a lower level of service) across all of the network.

Current Situation

Road Status

Source: Marlborough CDEM
Official Public Information Map

	Road Blocks	6
	Road - No Access	16
	Road - Controlled Access (Residents Only)	24
	Road - Restricted Public Access	0
	Road - Public Access	11



Awatere Valley



Waihopai (Bailey Bridge)



North Bank



Cullens Point



Pukenui



Kenepuru Rd



Queen Charlotte Dr

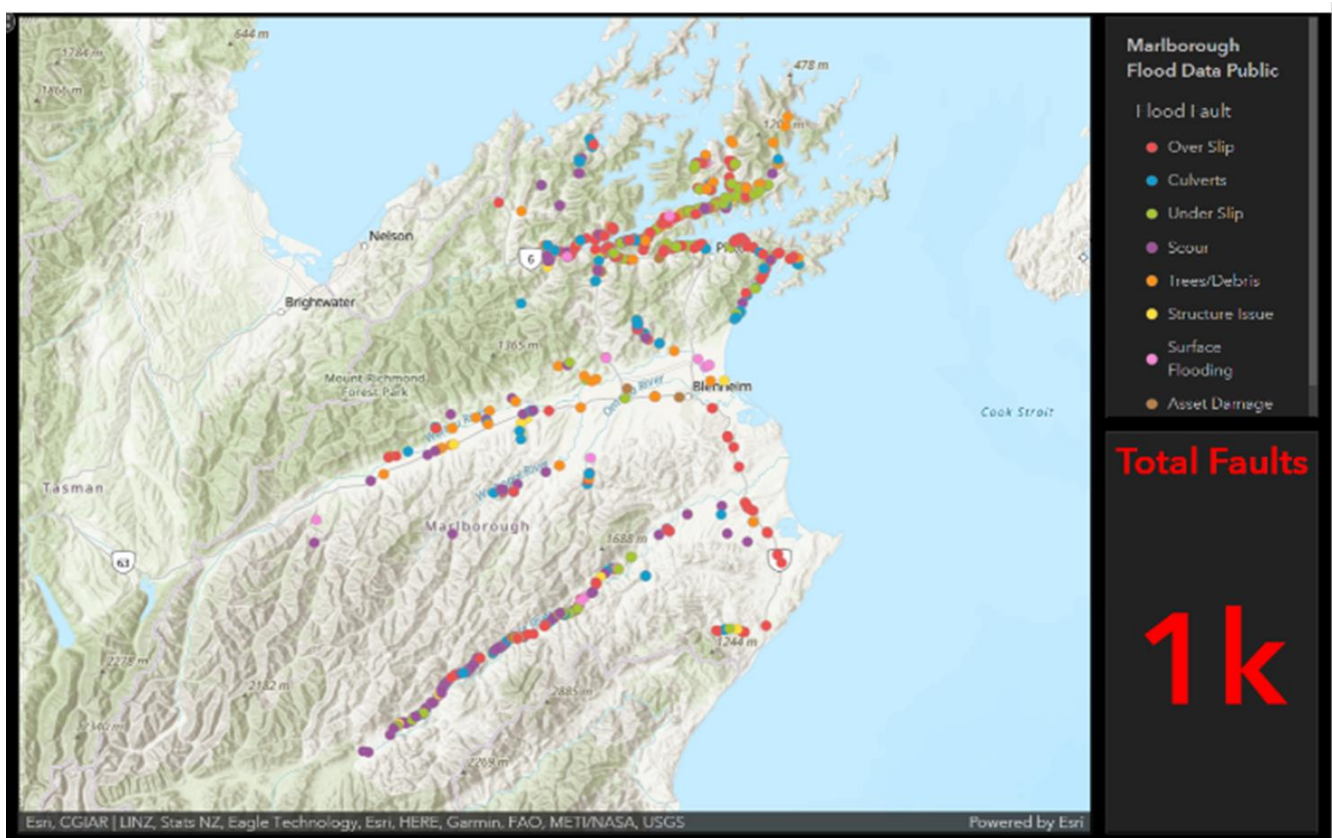


Kenepuru Rd at Torea Rd



Scale of What Needs to be Done

Summary of Identified Faults



Scale of Response

The scale of the damage to date

1000+

faults in
the network



200
underslips



350
overslips



24
structures
damaged

125

culvert
issues



The scale of the operation to date



40,000

Cubic metres removed

400

Workers site
inducted



25 Excavators



35

Trucks

As of 30 August 2021

High Level Summary – minor, simple, complex repairs

Report by fault type

	Minor	Simple	Complex	Grand Total
Asset Damage	3	1		4
Culvert Issue	95	8	2	105
Over Slip	281	20	8	309
Scour	71	9	1	81
Structure Damage	10	5		15
Surface Flooding	9	4		13
Trees/Debris	104	1		105
Under Slip	46	74	49	169
Grand Total	619	122	60	801

Summary of Historic Roads Maintenance Costs

	(\$) 2018/19	(\$) 2019/20
KENEPURU ROAD (LINKWATER-HEADS)	1,201,100	510,547
NORTHBANK ROAD (NORTHBANK)	1,110,630	20,657
WAIHOPAI VALLEY ROAD	829,911	562,762
QUEEN CHARLOTTE DRIVE	1,317,514	9,826
CROISILLES-FRENCH PASS ROAD	209,994	469,110
TAYLOR PASS ROAD	159,350	322,352
PORT UNDERWOOD ROAD	297,741	34,834
AWATERE VALLEY ROAD4 (LIMESTONE-MOLES)	92,461	156,316
ONAMALUTU ROAD	602,160	16,116
AWATERE VALLEY ROAD1 (SH1-MEDWAY)	154,888	254,471
KENEPURU ROAD (HEADS-RAETIHI)	127,731	343,612
RONGA ROAD	153,104	94,603
KAITUNA-TUAMARINA ROAD	133,118	23,712
WAIKAKAHO ROAD	16,115	95,211

Example of: Minor



Road
and
RP

**Awatere
Valley Road**

Type

Small

Scale

**Water table
and road
scour**

Example of: Simple



Road and RP **Queen Charlotte Dr 2301**

Referred to as **Momorangi Bay Slip**

Type **Medium**

Scale **Above road, estimated 2000m3**

Example of: Complex



Road and RP Mahakipawa Hill 1806

Referred to as Cullens Point

Type Urgent

Scale 50m long, up to 8m deep

Potential Risks

- Covid-19.
- Drivers on closed roads.
- Community pressures – businesses, schools, holiday access etc, costs of alternative sea routes.
- Public frustration as traffic management will be required for a long time on larger sites.
- Network Level of Service.
- Potential for further damage – rainfall/earthquakes.

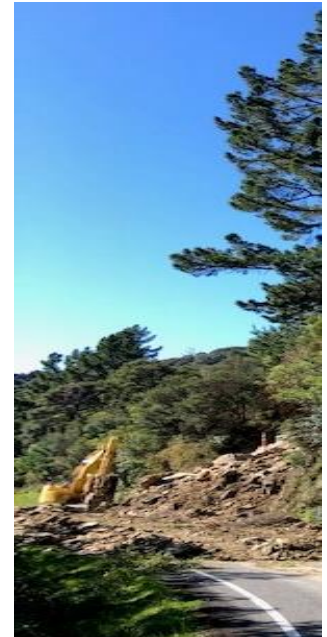


Changes and Challenges

We are continuing to assess and understand the scale

- **Example – The Rock**

- Early assessment and capture - High Risk due to the rock and material above the road
- Response - Reduce risk by removing material, trees and rock to allow resident access
- Dynamic change – Geotechnical assessment during response identified far greater slip approximately 200m long – new high hazard zone and increased scale of fault
- Challenges – Community access delays, increase in risk, technical difficulty and cost, change in access for Postie and Emergency services



Programme Progress

Considering Kenepuru Rd and Queen Charlotte Dr

- These roads are currently closed with No Access.

	Short Term	Medium Term	Long Term
Queen Charlotte Dr (Belvue to Havelock)	<p>Management of key risks. 2 - weeks</p> <p>Controlled access (residents only). 4 – weeks</p>	Restricted public access	Restored Public access.
Kenepuru Rd, Moetapu Rd & side roads	<p>Management of key risks 3 – 4 weeks</p> <p>Interim Controlled access (residents only). > 3 - 4 weeks</p> <p><i>We are considering implementing more immediate interim measures if feasible</i></p>	Our priority is to advise timeframe when restricted public access will be available	<p>Public access to agreed levels of service.</p> <p>Latest indications are that this will take over 12 months to achieve</p>

*subject to change due to weather events or further land movement

Community Engagement

The network in its current state is very fragile and we need to manage community safety

- Local resident access
- Local economic activity, farming and forestry, balanced with community safety
- Road access to holiday homes/baches and restricted access for an unknown period of time

The Recovery Team

Scope and Principles

Scope

- Focus on getting all the damaged roads back to a safe condition (Marlborough Local Roads Recovery Plan, August 2021).

Principles

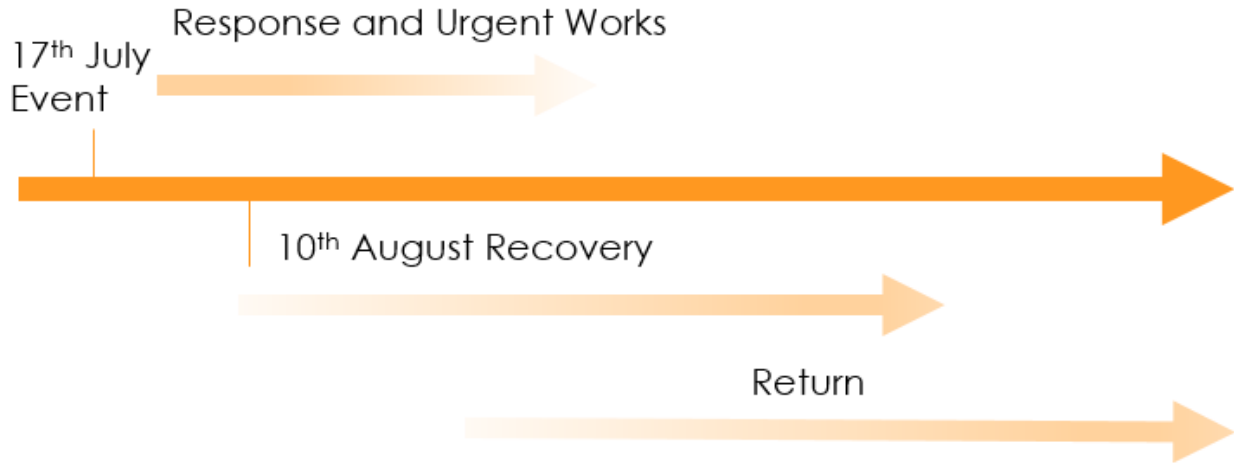
Preserve
life and mitigate
risk

Reconnect
access

Recovery
to agree levels of
services for all
users

Prioritisation

Response Recovery Return



Discussion / Question

Question

What is the basis for declaring the whole Kenepuru Road closed given that for many years we have managed to traverse it despite the odd slip and significant drop out occurring some of which have caused the road to be closed for a week or so or for a single lane to be allowed open for residents to travel?

Answer

The full length is not currently closed, it is closed to the heads only. We are working to manage the highest risk sites first, and then to open networks and then to make it safe for residents, and then move towards public access. We need to have a level of surety that when we allow, even for resident only restricted access, that it is safe for that road status access level. Just because it is possible to drive, or someone has decided to drive over or through a section of road doesn't mean it's safe

Question

At what point will it be safe for me and my family to travel to our property (in Moetapu Bay) to check it out and have a stay there? And at what point will I be able to advertise it as a holiday home destination again?

Answer

We are working toward having Resident only Restricted access to Moetapu Bay by the end of September. This is subject to change as we continue to better understand the faults and damage to the road network.

Latest indications are that some form of public access along Kenepuru Rd will take over 12 months to achieve

Question

When the slips are cleared and you start on repairing the road, are you going to adopt a traditional traffic control system compared to the current system that is being employed?

Answer

Yes we will be putting traffic management controls in place. These controls will vary depending on location and the control level needed to ensure safety.

Question

What timeframe do you envisage to have some access on the road for light vehicles and essential travel?

Answer

>3-4 weeks but as soon as possible
We may be able to have some controlled access earlier and we are working towards a solution for this.

Question

Has the geotechnical and engineering assessment been completed for the Kenepuru road and its side roads by now?

Answer

Yes this work has now been completed and scoping options for the repairs has started. The CDEM GIS map shows the most recent road status updates

Question

What remedial action is proposed or decided upon for the significant Portage drop out? Has a bypass for this section of K road been considered?

Answer

First stage is to make safe, second is to connect access. A bypass has been assessed and not recommended as an option due to complexity and cost

Question

Can sections of Kenepuru Road undamaged by the July storm be classed as 'open' or 'restricted' roads so properties can be linked to the wharfs that the boat services use?

Answer

This is closed. Yes this is been looked at currently. As we provide surety of community safety we will be allowing resident access as much as possible