

Hinekura Road remediation project: Progress Report 1

As at: 31 January 2022

SRO:	SWDC Stefan Corbett 06 306 9611 enquiries@swdc.govt.nz	Roading engineer:	Ruamāhanga Roads (SWDC/CDC Roding team) Tim Langley, Ben Turner & Johannes Ferreira	Roading contractor:	Fulton Hogan	Roading consultant:	WSP
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Progress:

Summary	<p>Further slip in December required urgent repair work. This was completed in record time to reopen the road to all traffic from Christmas Eve. Incredible effort on the part of Ruamāhanga Roads and Fulton Hogan. Refer email sent 23/12/21.</p> <p>Project recommenced as planned from early January. Some of the work done in the December urgent repair won't need to be redone. Good progress has been made so far. Regular checks are being made as part of the monitoring service.</p>
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Work completed	December:	<ul style="list-style-type: none"> • All pavement failures were repaired using limestone boulders, geotextiles and pavement material. The team reused all suitable material from site and brought in new material as needed. • Two new culverts were installed. • Sub soil drain was not installed as the existing subsoil drain was found to be in good working order. • Stormwater channels have been improved in areas. • Dam has been drained to a practical level. The dam wall has been removed at one end. • Proposal for dam relocation services was provided by WSP in early December.
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Work underway	January:	<p>Drone survey</p> <ul style="list-style-type: none"> • An UAV survey of the full site was carried out in mid-January following draining of the farm dam and reinstatement of the road after the large movement in December. • Resurvey of the ~12 survey pegs installed (in July 2021) around the wider landslide area was also carried out. • The resurvey indicates consistently 6m of movement occurred between July 2021 and January 2022 on all survey marks, suggesting the movement (particularly upslope of the road) occurred largely like a very large raft. • The 3D survey model includes enough area to assess local re-alignment options of the road, e.g. along ridgetop.
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	January (cont.):	<p>Tree works</p> <ul style="list-style-type: none"> • The crew fell large pine tree on northern end and cut logs and chipped all the waste. • Removed stand of poplars and willows Northern end, chipped all trees and removed all log waste from site and cleaned up. • Removed stand of willows below the road between corner and dropout point. Chipped all waste and mulch area after removing all log wood from site. • Removed all trees below the road on the corner for vision, chipped all waste and mulch area to allow for new native planting. • Removed willow tree above road on the corner and mulched banks to give better vision for vehicles.
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Work planned	February:	<ul style="list-style-type: none"> • We are now roughly at 60% through the tree removal. This will continue as planned. • The damaged fences will be repaired at the end of the logging process. • Dam relocation will be finalised.
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Indicative Hinekura Road Remediation Plan: Stages 1 - 7
30 November 2021

	Who	Start date	End date	29-Nov	6-Dec	13-Dec	20-Dec	27-Dec	3-Jan	10-Jan	17-Jan	24-Jan	31-Jan	7-Feb	14-Feb	21-Feb	28-Feb	7-Mar	14-Mar	21-Mar	28-Mar	4-Apr	
Stage 1	New water supply dam to replace existing one																						
	1.1 Design	Geotech (WSP)	1/12/2021	3/1/2022																			
	1.2 Build	Fulton																					
	1.3 Divert water flow	Fulton																					
	1.4 Relocate telecommunication wire	Chorus																					
Stage 2	Tree removal and ground clearance																						
	2.1 Remove trees to reduce weight on the landslide	Fulton Hogan	5/1/2022	3/1/2022																			
	2.2 Remove trees no longer aiding land retention	Fulton Hogan																					
	2.3 Treat existing willow trees to stop sprouting	Fulton Hogan																					
	2.4 Clear ground for new planting	Fulton Hogan																					
Stage 3	Drainage construction																						
	3.1 'Dewater' the slope	Fulton Hogan	20/1/2022	2/1/2022																			
	3.2 Construct 850m of 'V' drains	Fulton Hogan																					
	3.3 Create stock and vehicular access across drains	Fulton Hogan																					
Stage 4	Drainage across road																						
	4.1 Upgrade culverts to 300mm	Fulton	20/1/2022	14/3/2022																			
	4.1.1 eastern end of landslide	Fulton																					
	4.1.2 western end of landslide	Fulton																					
	4.1.3 low point of road, between culverts	Fulton																					
	4.2 Install 'water catching box' on uphill side of road and 150m of Novacoil	Fulton Hogan																					
	4.3 Install 'catching box' outlet on downhill side of road	Fulton Hogan																					
Stage 5	Decommissioning old water storage dam																						
	5.1 Pump water from old dam to new dam	Fulton	14/2/2022	1/3/2022																			
	5.2 Re-evaluate drainage around old dam	Fulton																					
Stage 6	Fencing stock exclusion for planting protection																						
	6.1 Install fencing	TBC	14/2/2022	2/3/2022																			
	6.2 Assess need for stock laneway	TBC																					
	6.3 If required, create stock laneway	TBC																					
Stage 7	Planting new trees																						
	7.1 Retire paddock	Landowner	7/3/2022	3/1/2022																			
	7.2 Prespraying of seedlings	GWRC																					
	7.3 Plant new trees to prevent erosion and strengthen road boundaries	GWRC																					