

## MINO-811 Low Cost Low Risk indicative project list

4 July 2023

Provide an indicative list of refined Low Cost Low Risk (LCLR) projects and start dates.

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### Waka Kotahi NZ Transport Agency's response:

- Please find attached the latest forecast programme of approved LCLR activities with their expected construction start dates by construction season.
- Physical works / constructions are predominantly delivered during the summer construction season. This avoids the vulnerabilities associated with carrying out works in unfavourable conditions, such as wet soil and air, and in low temperatures.
- Many earthworks, materials, and pavement applications are restricted to the October/November – April/May period to prevent additional costs and liabilities or additional consenting controls.
- Most projects of this size can be constructed within one construction season.

SH	Project Name	Natural Hazard	Description	Expected construction season
Various	Detour Routes	Detour Route Vulnerability	Detour resilience needs	2023-24
1	SH1 Pokeno to Mercer cabinets for increased flood levels	Flooding	Drainage Improvements	2023-24
23	SH 23 Raglan Divvy - Drainage (SH23-0015/5.950-6.060)	Drainage Improvement	Drainage Improvements	2023-24
3	SH3 Awawino Hill - Mesh Overslip (SH3-0076/1.658-1.700)	Underslip	Ongoing bank failure	2023-24
1	SH1B Mangatoketoke Stream Bridge	Bridge Scour	Significant scour around bridge abutments	2023-24
2	SH2 Karangahake Gorge various Retaining Wall upgrades	Underslip	Upgrade numerous retaining walls to improve resilience	2023-24
25	SH25 Ramarama Stream Bridge	Bridge Scour	Scour protection to bridge	2023-24
41	SH41 R-Waihi Hill 2 Scour (# 33)	Erosion	Drainage Improvements	2023-24
41	SH41 R-Waihi Hill Scour (# 32) (60050801)	Underslip	Stabilise underslip	2023-24
29A	SH29A Maungatapu Bridge	Seismic Assessment	Ground Investigation and Seismic assessment only	2023-24
2	SH2 Te Mania Stream Bridge	Bridge Scour	Scour protection	2023-24
29	Ruahiki Bluff	Rockfall	Rockfall protection	2023-24
5	SH5 Wharepapa Stream Bridge	Bridge Scour	Scour protection	2023-24
54	SH54 Tapuae Road Underslip	Underslip	Stabilise underslip	2023-24
4	Site 15-Mangawhero River opp. Raupiu	Overslip	Stabilise overslip	2023-24
3	Rapanui Retaining Wall	Underslip	Stabilise underslip	2023-24
3	SH3 Mahoenui Hill Retaining Wall	Underslip	Stabilise underslip	2023-24
59	R-SH59 Three Sisters rock face rockfall	Rockfall	Rockfall protection	2023-24
2	R-SH2 Remutaka Hill westbound (several sites) UAV survey	Rockfall	Rockfall protection	2023-24
2	R-SH2 Rockface between Te Marua & Birchville Park	Rockfall	Rockfall protection	2023-24
1	SH1 Deleat Flooding at Dashwood	Flooding	Drainage improvements	2023-24
6	SH6 Rai Saddle - Drainage and minor underslips	Underslips	Underslips and drainage improvements	2023-24
6	SH6 Epitaph Slip - Remote Monitoring	Underslip	Stabilise underslip	2023-24
015	Greata Valley Erosion	Drainage Scour	Scour protection	2023-24
7	Roidons Culvert Underslip	Underslip	Stabilise underslip	2023-24
8	SH8 Aires Culverts upgrades	Flooding	Drainage improvements	2023-24
8	SH8 Ash McGregors	Underslip	Stabilise Underslip	2023-24
6	SH6 Scrubby Corner	Underslip	Stabilise Underslip	2023-24
6	SH6 Nevis monitoring and maintenance plan	Rockfall	Rockfall protection	2023-24
Various	Coastal Otago Rock Scaling Programme	Rockfall	Rockfall protection	2023-24
16	Lookout Hill Underslip 2	Underslip	Stabilise ongoing subsidence	2024-25
1	SH1 Soakage Khyber Pass/Gillies Ave	Flooding	Drainage Improvements	2024-25
25	SH25 Komata River Bridge	Bridge Scour	Scour protection to bridge	2024-25
5	SH5 Mihi Stream Bridge	Bridge Scour	Scour protection to bridge	2024-25
2	SH2 Waioeka River Groynes	River Erosion	Improve and replace Groynes	2024-25
35	Overslip SH 035 / 079 / 8.92	Overslip	Stabilise overslip	2024-25
4	Site 26-Mangawhero River – Culvert no 73 to passing lane	Rockfall	Rockfall protection	2024-25
4	SH4 Waterfall Hill	Underslip	Stabilise underslip	2024-25
1	R-SH1 Southbound onramp, south of Westchester Drive Bridge -	Overslip	Stabilise overslip	2024-25
1	R-SH1 Landslip below 16 Japonica Grove reprofile	Overslip	Stabilise overslip	2024-25
6	SH6 Kawatiri to Owen River Erosion	River Erosion	Erosion protection	2024-25
6	SH6 Canvastown Flooding at Racecourse Bridge	Flooding	Drainage improvements	2024-25
6	SH6 Meyville Bay Slip	Overslip	Stabilise overslip	2024-25
6	SH6 Inangahua Junction Slip	Overslip	Stabilise overslip	2024-25
6	SH6 Blackwater Point Dropout	Underslip	Stabilise underslip	2024-25
015	Bankside flooding	Flooding	Drainage improvements	2024-25
77	Sh77 Rakaia Gorge Rock fence extension and Slip	Rockfall	Rockfall protection	2024-25
1	SH1 south Hook/ Molloy's/ St andrews box culvert replacements	Flooding	Drainage improvements	2024-25
77	Sh77 Mt Hutt Station to Blackfords Culverts	Flooding	Drainage improvements	2024-25
8	SH8 Cromwell Gorge Slopes and Benches	Rockfall	Rockfall protection	2024-25
1	SH1 Ocean Beach, Bluff	Coastal Flooding	Coastal protection	2024-25
99	SH99 Rileys Slip	Underslip	Stabilise underslip	2024-25
01N	Kaiwaka 2017 Underslip	Underslip	Stabilise ongoing subsidence	2025-26
16	Lookout Hill Underslip 1	Underslip	Stabilise ongoing subsidence	2025-26
22	SH22 Culvert Capacity - RSRP22-0000/B/4500-4600	Flooding	Drainage Improvements	2025-26
27	Patetonga Embankment	Underslip	Stabilise underslip	2025-26
1	SH1 Bulli Point (Te Poporo) Site 1	Underslip	Stabilise underslip	2025-26
46	SH46 Tongariro Culvert upgrade	Flooding	Culvert upgrade	2025-26
2	SH2 Tuapiro Stream Bridge	Bridge Scour	Scour protection	2025-26
35	Site#143 Raukokore River East	Underslip	Stabilise underslip	2025-26
35	SH35 Pirikaraka Stream Bridge	Bridge Scour	Scour protection	2025-26
4	Site 5-Mangawhero River	Underslip	Stabilise underslip	2025-26
	R-SH2 Featherston SuperValue Area Flooding Study/Investigation			
2	921/0.02	Flooding	Drainage improvements	2025-26
1	SH1 at Picton Elevation Underslip	Underslip	Stabilise underslip	2025-26
73	Porters culvert Aggregation	Flooding	Drainage improvements	2025-26
77	SH77 Reynolds Road and Pole Road Flooding Works	Flooding	Drainage improvements	2025-26
	Stream Training clear out channels passages to sea and around			
79	structures prior to events. SH79	Flooding	Drainage improvements	2025-26
1	SH1 Katiki Coast Rock Revetment	Rockfall	Rockfall protection	2025-26
6	SH6 Lake Wakatipu Mass Block Wall	Underslip	Stabilise Underslip	2025-26
01N	Long Hill slip 4 Lake Rotokereru Underslip 4	Underslip	Stabilise ongoing subsidence	2026-27
01N	Saunders Road Underslip	Underslip	Stabilise ongoing subsidence	2026-27
27	Waikumete Shoulder Slumping (Site #34)	Underslip	Stabilise underslip	2026-27
1	SH1 Bulli Point (Te Poporo) Site 2	Underslip	Stabilise underslip	2026-27
4	SH4 Putiki Culvert	Flooding	Drainage improvements	2026-27
45	SH45 Rahotu Culvert	Flooding	Drainage improvements	2026-27
63	SH63 The Wash Flooding	Flooding	Drainage improvements	2026-27
73	SH73 Candys Bend Scouring	River Erosion	Erosion protection	2026-27
73	SH73 Kellys Creek Bridge Replacement	Flooding	Bridge replacement	2026-27
1	SH1 Waikouaiti Flood Mitigation	Flooding	Drainage Improvements	2026-27
99	SH99 McCracken's Rest Culvert	Underslip	Drainage improvements	2026-27
2	R-Otoko Hill Descent III	Overslips	Stabilise overslip	TBC
2	R-Farams Subsidence	Underslip	Stabilise underslip	TBC
2	R-Makaratu Road Subsidence	Underslip	Stabilise underslip	TBC
2	Waipawa River Erosion	River Erosion	Erosion Protection	TBC
2	Bayview Drain Culvert	Flooding	Drainage Improvements	TBC
2	Moreere Hill Dropout	Underslip	Stabilise underslip	TBC

2	Mohaka Hill debris fence	Rockfall	Rockfall protection	TBC
	Culvert No.85	Underslip	Stabilise underslip and replace drainage	TBC
	Culvert No 18	Flooding	Drainage improvements	TBC
3	SH3 Tongaporutu Scenic Viewpoint	Underslip	Stabilise underslip	TBC
6	SH6 Whangamoa Hill and Rai Saddle - Drainage and minor underslips	Underslips	Underslips and drainage improvements	TBC
94	SH94 Shooting Rail (Milford Road)	Underslip	Stabilise underslip	TBC

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Proactively Released