

Maintenance Works Schedule for Small Streams, Drainage Channels and River Flood Fairways

1 January 2024 – 31 December 2024

Job File Reference	Name of District	Works Description	Timing
qA 1749	Arthurton Drain	Bed Excavation and Spraying	Mar 2024
qA 1562	Bayswater Drain	Bed Excavation and Spraying	Mar 2024
qA 1749	Black Creek	Bed Excavation and Spraying	
qA 1570	Blees Creek	Bed Excavation and Spraying	
qA 1749	Bolgers Drain	Bed Excavation	Mar 2024
qA 1765	Boundary Creek	Willow Control	
qA 1749	Carnies Outfall	Bed Excavation	
qA 1562	Castledowns Drains	Bed Excavation	
qA 1570	Centre Bush Creek	Bed Excavation	Mar 2024
qA 1749	Charlton Drain	Bed Excavation and Spraying	Mar 2024
qA 1686	Clifton Drain	Bed Excavation and Spraying	
qA 1749	Cronins Creek	Bed Excavation and Spraying	Mar 2024
qA 1570	Dipton Channel	Erosion Repair and Willow Control	Apr 2024
qA 1688	Duck Creek South	Bed Excavation	Jul 2024
qA 1688	Duck Creek North	Bed Excavation	
qA 1765	Fenham Stream	Willow Control	
qA 1570	Gaines Cull Creek	Bed Excavation and Spraying	Mar 2024
qA 1749	Gorge Creek	Bed Excavation (18 mth clean)	Oct 2024
qA 1570	Howell Rd Drain	Bed Excavation	Jul 2024
qA 1765	Lilburn Stream	Willow & Erosion Control	Nov 2024
qA 1570	Lochiel Channel	Bed Excavation and Spraying	Mar 2024
qA 1749	Longridge Stream	Bed Excavation & erosion control	Dec 2024
qA 1749	Mataura Is Drain	Bed Excavation	Apr 2024
qA 1749	Menzies Ferry Drain	Bed Excavation and Spraying	
qA 1562	McKay Creek	Bed Excavation and Spraying	Mar 2024
qA 1584	Middle Creek	Bed Excavation and Spraying	Dec 2024
qA 1570	Murray Creek	Bed Excavation and Spraying	
qA 1584	Old Otahuti Stream	Bed Excavation	Oct 2024
qA 1562	Opahaka Stream	Bed Excavation and Spraying	Oct 2024
qA 1570	Oporo Flats Drain	Bed Excavation and Spraying	Apr 2024
qA 1765	Orauea River	Erosion Repair and Willow Control	Jan 2024
qA1570	Orion Rd Drains	Bed Excavation & Spraying	Mar 2024
qA 1749	Ota Creek	Bed Excavation & Spraying	
qA 1570	Otakau Stream	Bed Excavation	
qA 1584	Otaitai Bush Drains	Bed Excavation and Spraying	Apr 2024
qA 1687	Otatara Drain	Bed Excavation and Spraying	Jan 2024
	Lake Hawkins		
qA 1567	Otepuni Stream	Bed Excavation	
qA 1749	Oteramika Stream	Bed Excavation	

Job File	Name of District	Works Description	Timing
Reference			
qA 1562	Otautau River Board Area	Bed Excavation and Spraying	
		Erosion Repair and Willow Control	
qA 1749	Parawa Creek	Bed Excavation & Spraying	May 2024
qA 1749	Pukerau Drains	Bed Excavation	
qA 1749	Pukerau Stream	Erosion Control	
qA 1749	Pyramid Drain	Bed Excavation and Spraying	Apr 2024
qA 1749	Quoich Creek	Bed Excavation	
qA 1749	Rippon Drain	Bed Excavation and Spraying	Mar 2024
qA 1570	Roeburn Stream	Bed Excavation	
qA 1765	Sharpridge Stream	Erosion Repair	
qA 1749	Sheepwash Creek	Bed Excavation	
qA 1570	Swales Creek	Bed Excavation	Mar 2024
qA 1570	Swaneys Creek	Bed Excavation and Spraying	Jul 2024
qA 1570	Stag Stream Cut Off	Bed Excavation and Spraying	
qA 1584	Taunamau Stream	Bed Excavation and Spraying	Feb 2024
qA 1562	Thornbury Trib	Bed Excavation and Spraying	Mar 2024
qA 1749	Titiroa Drains	Bed Excavation and Spraying	
qA 1570	Tomoporakau	Bed Excavation and Spraying	Feb 2024
qA 1749	Titiwi Drains	Bed Excavation and Spraying	
qA 1570	Waikiwi Stream Upper	Bed Excavation and Spraying	Mar 2024
qA 1570	Waikiwi Stream Lower	Bed Excavation	
qA 1570	Waianawa Stream	Bed Excavation and Spraying	Mar 2024
qA 1569	Waihopai (Lower)	Bed Excavation & Willow Control	
qA 1569	Waihopai (Upper)	Bed Excavation	
qA 1749	Waikaka Tribs	Bed Excavation and Spraying	
qA 1689	Waikawa Stream	Bed Excavation and Erosion Control	Feb 2024
qA 7235	Waituna Stream & Tribs	Bed Excavation, Erosion control &	Feb 2024
		spraying	
qA 1584	Waimatuku Stream & Tribs	Bed Excavation, Erosion control &	
		spraying	
qA 1749	Waimea Stream Upper	Bed Excavation and Erosion Control	
qA 1749	Waimea Stream Lower	Bed Excavation and Erosion Control	
qA 1749	Waimumu Stream	Erosion Control	Dec 2024
qA 1749	Waimumu Stream (old)	Bed Excavation and Spraying	Feb 2024
qA 1570	Wallacetown Drain	Bed Excavation	Nov 2024
qA 1765	Wairaki Stream	Erosion Control	Aug 2024
qA 1570	West Plains Rd Drain	Bed Excavation	Nov 2024
qA 1570	Winton Channel East	Bed Excavation and Spraying	Mar 2024
qA 1570	Winton Channel West	Bed Excavation and Spraying	Mar 2024
qA 1570	Winton Channel	Bed Excavation, Willow and Erosion	Apr 2024
		Control	

Note: Blank timing spaces means no work is scheduled in this time period.

Invercargill City Drainage

Job File Reference	Name of District	Works Description	Timing
qA 1566	Kingswell Creek	Bed Excavation and Spraying	
qA 1567	Otepuni Creek	Bed Excavation and Spraying	
qA 1569	Waihopai Stream	Bed Excavation and Spraying	

Makarewa Tributary Drains

Job File Reference	Name of District	Works Description	Timing
qA 1562	Bews Trib	Bed Excavation and Spraying	Feb 2024
qA 1562	Buchanans Outfall	Bed Excavation and Spraying	
qA 1562	Carsons Creek	Bed Excavation and Spraying	Mar 2024
qA 1562	Counsell Rd Drains 1,2,3,4	Bed Excavation and Spraying	Mar 2024
qA 1562	Dalzells Trib	Bed Excavation and Spraying	Mar 2024
qA 1562	Gold Creek & Trib	Bed Excavation and Spraying	
qA 1562	Grovebank Outfall	Bed Excavation and Spraying	Mar 2024
qA 1562	Hedgehope Flats Drain	Bed Excavation and Spraying	
qA 1562	Horman Rd Drain	Bed Excavation and Spraying	Feb 2024
qA 1562	Horton Evans Trib	Bed Excavation and Spraying	Feb 2024
qA 1562	Kerrs Outfall	Bed Excavation and Spraying	Feb 2024
qA 1562	Pebbly Hills Outfall	Bed Excavation and Spraying	
qA 1562	McPhersons Outfall	Bed Excavation and Spraying	
qA 1562	Settlers Creek	Bed Excavation and Spraying	
qA 1562	Sharks Tooth Creek	Bed Excavation and Spraying	Feb 2024
qA 1562	Slee Hanning Outfall	Bed Excavation and Spraying	Mar 2024
qA 1562	Swaneys Trib	Bed Excavation and Spraying	Apr 2024
qA 1562	Tussock Creek	Bed Excavation and Spraying	
qA 1562	Watts Outfall	Bed Excavation and Spraying	Feb 2024

Explanation of Drainage Maintenance Work

The Drainage Works Programme that is in place today is a result of historic information and consultation with river/drainage liaison committees, ratepayers, interest groups, SoE groups and other affected parties.

To determine if a drainage scheme requires drainage, maintenance works inspections are carried out by Environment Southland Catchment Operations Division staff four weeks in advance of the programmed drainage works.

These inspections also determine the type of works required to maintain suitable drainage outfall.

Bed Excavation is removal of accumulated weed and silt to reinstate drainage outfall. Bed spraying is eradication of weed growth to reinstate drainage outfall.

Willow control is eradication and control of willow (majority crack willow) to stop infestation of waterways and flood ways.

Erosion control is repairing stream/river bank edge using willow species, rock armouring, concrete riprap and sediment manipulation. Sediment manipulation means removing accumulated sediment from the inside of the bend to relieve pressure on the outside of the bend where erosion is occurring. Excavated material will be placed on the eroding side in first instance or out behind machine if this is not possible or beneficial to the works in question.

Consultation – Note 1

The above "description of works" and "timing schedules" are based on requirements established in consultation with rating district landowner/ratepayers, interested organisations and historic information. However, it may be necessary from time to time to alter the type of work or the timing of individual schedules programmes to meet changed circumstances.

In the event of a requirement to initiate a change greater than three weeks either side of that listed in the "Works Schedule", Council staff will advise the following organisations in writing, three weeks prior to the commencement of any changed activity:

- Department of Conservation
- Fish and Game New Zealand, Southland Region
- lw
- South Island Eel Industry Association
- Southland Recreational Whitebaiters Association
- Public Health South

Te Anau Basin - Drainage District

The following inventory of drainage rating districts are situated within the Te Anau basin and are all maintained on an irregular "as required" basis involving a mixture of excavation and aquatic weed spraying.

Consultation - Note 2

In order that Council's consultation requirements are met, Council staff will provide the following organisations with details of work proposals in writing, three weeks prior to the commencement of any activity on any of the listed rating districts within the Te Anau Basin.

- Department of Conservation
- Fish and Game New Zealand, Southland Region
- Public Health South
- Iwi
- Southland Island Eel Industry Association

Te Anau Rating District Drains

These drains are now part of the wider Te Anau Rating District and receive work on an as required basis.

Old E L R Drains

Job File Reference	Name of Channel	Length (metres)
qA 1577	Ellis Creek	5,847
qA 1577	Lagoon Creek	12,198
qA 1577	Reids Dale	6,166
qA 1577	Upper Lagoon Creek	2,780
qA 1577	Wilderness Swamp Drain	1,938

Old Mount York Rating District

Job File Reference	Name of Channel	Length (metres)
qA 1577	Stevens Tributary	3,695
qA 1577	Desolation Swamp	2,806
qA 1577	Desolation Creek	3,013
qA 1577	McLeods Stream and Tributaries	7,922
qA 1577	Riverslea Drain No 1	7,223
qA 1577	Riverslea Drain No 2	2,437
qA 1577	Staple Drain	6,634
qA 1577	Home Creek	11,487
qA 1577	Waiau No 1	6,520
qA 1577	Waiau No 2	5,662
qA 1577	Waiau No 3	6,573
qA 1577	Duncraigen No 1	2,895

Old Whitestone Rating District

Job File Reference	Name of Channel	Length (metres)
qA 1577	Boundary Block Drains	7,277
qA 1577	Fred Burn	10,970
qA 1577	Dodds – Woods Tributary	2,360
qA 1577	Flaxy Creek	9,889
qA 1577	Dale Block Drains	3,687
qA 1577	Long Valley Drains	9,889
qA 1577	Kakapo Block Drains	2,964
qA 1577	Margin Tributary	1,808
qA 1577	Mount York Drains 1 and 2	3,040
qA 1577	Homestead Drains	3,465

Old Upukerora Rating District

Job File Reference	Name of Channel	Length (metres)
qA 1577	Tributary "B"	2,620
qA 1577	Coal Pit Flat Drain	1,034
qA 1577	Melland Tributary	3,967
qA 1577	Snowdon Drain	3,580

River Fairway Spraying Programme

Ground-based spraying may occur intermittently on the flood fairways of the following rivers from the dates listed:

Job File Reference	Name of Channel	Timing
qA 1762	Waiau River and Tributaries	July 2023 to Dec 2024
qA 1741	Oreti River and Tributaries	Sep 2023 to Dec 2024
qA 1649	Mataura River and Tributaries	Sep 2023 to Dec 2024
qA 1579	Aparima River and Tributaries	Oct 2023 to Dec 2024
qA 1759	Mararoa River	Oct 2023 to Dec 2024
qA 1759	Whitestone River	Oct 2023 to Dec 2024
qA 1759	Upukerora River	Oct 2023 to Dec 2024
qA 1693	Makarewa River	Oct 2023 to Dec 2024

Makarewa River Works

Job File Reference	Name of Channel	Timing
qA 1693	Makarewa River	November 2023 to July 2024
qA 1693	Lora Stream	November 2023 to July 2024
qA 1693	Otapiri Stream	November 2023 to July 2024
qA 1693	Dunsdale Stream	November 2023 to July 2024
qA 1693	Titipua Stream	November 2023 to July 2024
qA 1693	Hedgehope Stream	November 2023 to July 2024